APPENDIX A WOODSIDE ENVIRONMENT AND BIODIVERSITY POLICY

WOODSIDE POLICY



Environment and Biodiversity Policy

OBJECTIVE

Woodside recognises the intrinsic value of nature and the importance of conserving biodiversity and ecosystem services to support the sustainable development of our society. We are committed to doing our part. We understand and embrace our responsibility to undertake activities in an environmentally sustainable way.

PRINCIPLES

Woodside commits to:

- Implementing a systematic approach to the management of the impacts and risks of our
 operating activities on an ongoing basis, including emissions and air quality, discharge and
 waste management, water management, biodiversity and protected areas.
- Applying the mitigation hierarchy principle (avoid, minimise, restore) and a continuous improvement approach to ensure we maintain compliance, improve resource use efficiency and reduce our environmental impacts.
- Embedding environmental and biodiversity management, and opportunities, in our business planning and decision making processes.
- Complying with relevant laws and regulations and applying responsible standards where laws
 do not exist.
- Not undertaking new exploration or development of hydrocarbons within the boundaries of natural sites on the UNESCO World Heritage List (as specified at 1 December 2022). Existing activity may continue if compatible with maintenance of the listed outstanding universal values.
- Not undertaking new exploration or development of hydrocarbons within IUCN Protected Areas
 (as specified at 1 December 2022) unless compatible with management plans in place for the
 area. Existing activity may continue if compatible with management plans in place for the area.
- Achieving net zero deforestation1 associated with new projects that take a Final Investment Decision (FID) after 1 December 2022.
- Developing Biodiversity Action Plans for all new major projects (CAPEX >USD\$2 billion) that take a FID after 1 December 2022.
- · Supporting positive biodiversity outcomes in regions and areas in which we operate.
- Setting targets and publicly reporting on our environmental and biodiversity performance.

APPLICABILITY

Responsibility for the application of this Policy rests with all Woodside employees, contractors and joint venturers engaged in activities under Woodside operational control. Woodside managers are also responsible for promotion of this Policy in non-operated joint ventures.

This Policy will be reviewed regularly and updated as required.

Approved by the Woodside Energy Group Ltd Board in December 2022.

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¹ Definition of Forest: 'trees higher than 5 meters and a canopy cover of more than 10 percent on the land to be cleared'

APPENDIX B RELEVANT REQUIREMENTS

The table below refers to Commonwealth Legislation related to the activity

Commonwealth Legislation	Legislation Summary
Air Navigation Act 1920 Air Navigation Regulations 1947	This Act relates to the management of air navigation.
Air Navigation Regulations 1947 Air Navigation (Aerodrome Flight Corridors) Regulations 1994	
Air Navigation (Aircraft Engine Emissions) Regulations 1995	
Air Navigation (Aircraft Noise) Regulations 1984	
Air Navigation (Fuel Spillage) Regulations 1999	
Australian Maritime Safety Authority Act 1990	This Act establishes a legal framework for the Australian Maritime Safety Authority (AMSA), which represents the Australian Government and international forums in the development, implementation and enforcement of international standards including those governing ship safety and marine environment protection. AMSA is responsible for administering the Marine Orders in Commonwealth waters.
Australian Radiation Protection and Nuclear Safety Act 1998	This Act relates to the protection of the health and safety of people, and the protection of the environment from the harmful effects of radiation.
Biosecurity Act 2015 Quarantine Regulations 2000 Biosecurity Regulation 2016 Australian Ballast Water Management Requirements 2017	This Act provides the Commonwealth with powers to take measures of quarantine, and implement related programs as are necessary, to prevent the introduction of any plant, animal, organism or matter that could contain anything that could threaten Australia's native flora and fauna or natural environment. The Commonwealth's powers include powers of entry, seizure, detention and disposal.
	This Act includes mandatory controls on the use of seawater as ballast in ships and the declaration of sea vessels voyaging out of and into Commonwealth waters. The Regulations stipulate that all information regarding the voyage of the vessel and the ballast water is declared correctly to the quarantine officers.
Environment Protection and Biodiversity Conservation Act 1999 Environment Protection and Biodiversity	This Act protects matters of national environmental significance (NES). It streamlines the national environmental assessment and approvals process, protects Australian
Conservation Regulations 2000	biodiversity and integrates management of important natural and culturally significant places.
	Under this Act, actions that may be likely to have a significant impact on matters of NES must be referred to the Commonwealth Environment Minister.
 Environment Protection (Sea Dumping) Act 1981 Environment Protection (Sea Dumping) Regulations 1983 	This Act provides for the protection of the environment by regulating dumping matter into the sea, incineration of waste at sea and placement of artificial reefs.
Industrial Chemicals (Notification and Assessment Act) 1989 Industrial Chemicals (Notification and Assessment) Regulations 1990	This Act creates a national register of industrial chemicals. The Act also provides for restrictions on the use of certain chemicals which could have harmful effects on the environment or health.
National Environment Protection Measures (Implementation) Act 1998 • National Environment Protection Measures (Implementation) Regulations 1999	This Act and Regulations provide for the implementation of National Environment Protection Measures (NEPMs) to protect, restore and enhance the quality of the environment in Australia and ensure that the community has access to relevant and meaningful information about pollution.
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Commonwealth Legislation	Legislation Summary
	The National Environment Protection Council has made NEPMs relating to ambient air quality, the movement of controlled waste between states and territories, the national pollutant inventory, and used packaging materials.
National Greenhouse and Energy Reporting Act 2007	This Act and associated Rule establishes the legislative framework for the NGER scheme for reporting greenhouse gas
National Greenhouse and Energy Reporting (Safeguard Mechanism) Rule 2015	emissions and energy consumption and production by corporations in Australia.
Navigation Act 2012	This Act regulates navigation and shipping including Safety of Life at Sea (SOLAS). The Act will apply to some activities of
 Marine order 12 – Construction – subdivision and stability, machinery and electrical installations 	project vessels. This Act is the primary legislation that regulates ship and
Marine order 30 - Prevention of collisions	seafarer safety, shipboard aspects of marine environment protection and pollution prevention.
Marine order 47 – Offshore Industry units	protoction and political provontion.
Marine order 57 - Helicopter operations	
Marine order 91 - Marine pollution prevention— oil	
Marine order 93 - Marine pollution prevention— noxious liquid substances	
Marine order 94 - Marine pollution prevention— packaged harmful substances	
Marine order 96 - Marine pollution prevention— sewage	
Marine order 97 - Marine pollution prevention— air pollution	
Offshore Petroleum and Greenhouse Gas Storage Act 2006	This Act is the principal Act governing offshore petroleum exploration and production in Commonwealth waters. Specific
Offshore Petroleum and Greenhouse Gas Storage (Environment) Regulations 2009	environmental, resource management and safety obligations are set out in the Regulations listed.
Offshore Petroleum and Greenhouse Gas Storage (Resource Management and Administration) Regulations 2011	
Offshore Petroleum and Greenhouse Gas Storage (Safety) Regulations 2009	
Ozone Protection and Synthetic Greenhouse Gas Management Act 1989	This Act provides for measures to protect ozone in the atmosphere by controlling and ultimately reducing the
Ozone Protection and Synthetic Greenhouse Gas Management Regulations 1995	manufacture, import and export of ozone depleting substances (ODS) and synthetic greenhouse gases, and replacing them with suitable alternatives. The Act will only apply to Woodside if it manufactures, imports or exports ozone depleting substances.
Protection of the Sea (Powers of Intervention) Act 1981	This Act authorises the Commonwealth to take measures for the purpose of protecting the sea from pollution by oil and other noxious substances discharged from ships and provides legal immunity for persons acting under an AMSA direction.
Protection of the Sea (Prevention of Pollution from Ships) Act 1983	This Act relates to the protection of the sea from pollution by oil and other harmful substances discharged from ships. Under
Protection of the Sea (Prevention of Pollution from Ships) (Orders) Regulations 1994	this Act, discharge of oil or other harmful substances from ships into the sea is an offence. There is also a requirement to keep records of the ships dealing with such substances.
Marine order 91 - Marine pollution prevention— oil	The Act applies to all Australian ships, regardless of their location. It applies to foreign ships operating between 3
Marine order 93 - Marine pollution prevention— noxious liquid substances	nautical miles (nm) off the coast out to the end of the Australian Exclusive Economic Zone (200 nm). It also applies

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Commonwealth Legislation	Legislation Summary
Marine order 94 - Marine pollution prevention— packaged harmful substances	within the 3 nm of the coast where the State/Northern Territory does not have complementary legislation.
Marine order 95 - Marine pollution prevention— garbage	All the Marine Orders listed, except for Marine Order 95, are enacted under both the <i>Navigation Act 2012</i> and the
Marine order 96 - Marine pollution prevention— sewage	Protection of the Sea (Prevention of Pollution from Ships) Act 1983.
Maritime Legislation Amendment (Prevention of Air Pollution from Ships) Act 2007	This Act is an amendment to the <i>Protection of the Sea</i> (<i>Prevention of Pollution from Ships</i>) Act 1983. This amended Act provides the protection of the sea from pollution by oil and
MARPOL Convention	other harmful substances discharged from ships.
Protection of the Sea (Harmful Antifouling Systems) Act 2006	This Act relates to the protection of the sea from the effects of harmful anti-fouling systems. It prohibits the application or
Marine order 98—(Marine pollution—anti- fouling systems)	reapplication of harmful anti-fouling compounds on Australian ships or foreign ships that are in an Australian shipping facility.

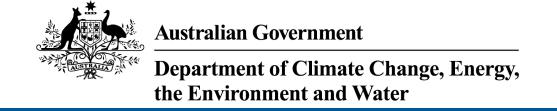
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APPENDIX C EPBC ACT PROTECTED MATTERS SEARCH

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EPBC Act Protected Matters Report

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

EMBA-Subsea

Report created: 15-Mar-2023

Summary

Details

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

Caveat

Acknowledgements

Summary

Matters of National Environment Significance

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

World Heritage Properties:	1
National Heritage Places:	1
Wetlands of International Importance (Ramsar	None
Great Barrier Reef Marine Park:	None
Commonwealth Marine Area:	2
Listed Threatened Ecological Communities:	None
Listed Threatened Species:	36
Listed Migratory Species:	54

Other Matters Protected by the EPBC Act

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

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

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

Commonwealth Lands:	None
Commonwealth Heritage Places:	1
Listed Marine Species:	88
Whales and Other Cetaceans:	33
Critical Habitats:	None
Commonwealth Reserves Terrestrial:	None
Australian Marine Parks:	8
Habitat Critical to the Survival of Marine Turtles:	4

Extra Information

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

State and Territory Reserves:	None
Regional Forest Agreements:	None
Nationally Important Wetlands:	None
EPBC Act Referrals:	162
Key Ecological Features (Marine):	8
Biologically Important Areas:	14
Bioregional Assessments:	None
Geological and Bioregional Assessments:	None

Details

Matters of National Environmental Significance

World Heritage Properties		[Resource Information]
Name	State	Legal Status
The Ningaloo Coast	WA	Declared property

National Heritage Places		[Resource Information]
Name	State	Legal Status
Natural		
The Ningaloo Coast	WA	Listed place

Commonwealth Marine Area

[Resource Information]

Approval is required for a proposed activity that is located within the Commonwealth Marine Area which has, will have, or is likely to have a significant impact on the environment. Approval may be required for a proposed action taken outside a Commonwealth Marine Area but which has, may have or is likely to have a significant impact on the environment in the Commonwealth Marine Area.

Feature Name

EEZ and Territorial Sea

Extended Continental Shelf

Listed Threatened Species [Resource Information]

Status of Conservation Dependent and Extinct are not MNES under the EPBC Act.

Number is the current name ID.			
Scientific Name	Threatened Category	Presence Text	
BIRD			
Calidris canutus			
Red Knot, Knot [855]	Endangered	Species or species habitat may occur within area	
Calidris ferruginea			
Curlew Sandpiper [856]	Critically Endangered	Species or species habitat may occur within area	
Diomedea amsterdamensis			
Amsterdam Albatross [64405]	Endangered	Species or species habitat likely to occur within area	
<u>Diomedea exulans</u>			
Wandering Albatross [89223]	Vulnerable	Species or species habitat may occur within area	

Scientific Name	Threatened Category	Presence Text
Macronectes giganteus Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area
Macronectes halli Northern Giant Petrel [1061]	Vulnerable	Species or species habitat may occur within area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat may occur within area
Papasula abbotti Abbott's Booby [59297]	Endangered	Species or species habitat may occur within area
Phaethon lepturus fulvus Christmas Island White-tailed Tropicbird, Golden Bosunbird [26021]	Endangered	Species or species habitat may occur within area
Pterodroma mollis Soft-plumaged Petrel [1036]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Sternula nereis nereis Australian Fairy Tern [82950]	Vulnerable	Breeding known to occur within area
Thalassarche carteri Indian Yellow-nosed Albatross [64464]	Vulnerable	Species or species habitat may occur within area
Thalassarche cauta Shy Albatross [89224]	Endangered	Species or species habitat may occur within area
Thalassarche impavida Campbell Albatross, Campbell Black-browed Albatross [64459]	Vulnerable	Species or species habitat may occur within area
Thalassarche melanophris Black-browed Albatross [66472]	Vulnerable	Species or species habitat may occur within area

Scientific Name	Threatened Category	Presence Text
Thalassarche steadi White-capped Albatross [64462]	Vulnerable	Species or species habitat may occur within area
FISH		
Thunnus maccoyii Southern Bluefin Tuna [69402]	Conservation Dependent	Breeding known to occur within area
MAMMAL		
Balaenoptera borealis Sei Whale [34]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Balaenoptera musculus Blue Whale [36]	Endangered	Migration route known to occur within area
Balaenoptera physalus Fin Whale [37]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Eubalaena australis Southern Right Whale [40]	Endangered	Species or species habitat likely to occur within area
REPTILE		
Aipysurus apraefrontalis Short-nosed Seasnake [1115]	Critically Endangered	Species or species habitat known to occur within area
Aipysurus foliosquama Leaf-scaled Seasnake [1118]	Critically Endangered	Species or species habitat known to occur within area
Caretta caretta Loggerhead Turtle [1763]	Endangered	Congregation or aggregation known to occur within area
Chelonia mydas Green Turtle [1765]	Vulnerable	Congregation or aggregation known to occur within area

Scientific Name	Threatened Category	Presence Text
Dermochelys coriacea Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Species or species habitat known to occur within area
Eretmochelys imbricata Hawksbill Turtle [1766]	Vulnerable	Congregation or aggregation known to occur within area
Natator depressus Flatback Turtle [59257]	Vulnerable	Congregation or aggregation known to occur within area
SHARK		
Carcharias taurus (west coast population) Grey Nurse Shark (west coast population) [68752]) Vulnerable	Species or species habitat known to occur within area
Carcharodon carcharias White Shark, Great White Shark [64470]	Vulnerable	Species or species habitat known to occur within area
Centrophorus zeehaani Southern Dogfish, Endeavour Dogfish, Little Gulper Shark [82679]	Conservation Dependent	Species or species habitat likely to occur within area
Pristis clavata Dwarf Sawfish, Queensland Sawfish [68447]	Vulnerable	Species or species habitat known to occur within area
Pristis pristis Freshwater Sawfish, Largetooth Sawfish, River Sawfish, Leichhardt's Sawfish, Northern Sawfish [60756]	Vulnerable	Species or species habitat likely to occur within area
Pristis zijsron Green Sawfish, Dindagubba, Narrowsnout Sawfish [68442]	Vulnerable	Species or species habitat known to occur within area
Rhincodon typus Whale Shark [66680]	Vulnerable	Foraging, feeding or related behaviour known to occur within area
Sphyrna lewini Scalloped Hammerhead [85267]	Conservation Dependent	Species or species habitat known to occur within area

Listed Migratory Species		[Resource Information
Scientific Name	Threatened Category	Presence Text
Migratory Marine Birds		
Anous stolidus		
Common Noddy [825]		Species or species habitat may occur within area
Ardenna carneipes		
Flesh-footed Shearwater, Fleshy-footed Shearwater [82404]		Foraging, feeding or related behaviour likely to occur within area
Calonectris leucomelas		
Streaked Shearwater [1077]		Species or species habitat likely to occur within area
Diomedea amsterdamensis		
Amsterdam Albatross [64405]	Endangered	Species or species habitat likely to occur within area
Diomedea exulans		
Wandering Albatross [89223]	Vulnerable	Species or species habitat may occur within area
Fregata ariel		
Lesser Frigatebird, Least Frigatebird [1012]		Species or species habitat likely to occur within area
Fregata minor		
Great Frigatebird, Greater Frigatebird [1013]		Species or species habitat may occur within area
Macronectes giganteus		
Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area
Macronectes halli		
Northern Giant Petrel [1061]	Vulnerable	Species or species habitat may occur within area
Onychoprion anaethetus		
Bridled Tern [82845]		Foraging, feeding or related behaviour may occur within area

Scientific Name	Threatened Category	Presence Text
Phaethon lepturus White-tailed Tropicbird [1014]		Species or species habitat known to occur within area
Sterna dougallii Roseate Tern [817]		Breeding likely to occur within area
Thalassarche carteri Indian Yellow-nosed Albatross [64464]	Vulnerable	Species or species habitat may occur within area
Thalassarche cauta Shy Albatross [89224]	Endangered	Species or species habitat may occur within area
Thalassarche impavida Campbell Albatross, Campbell Black-browed Albatross [64459]	Vulnerable	Species or species habitat may occur within area
Thalassarche melanophris Black-browed Albatross [66472]	Vulnerable	Species or species habitat may occur within area
Thalassarche steadi White-capped Albatross [64462]	Vulnerable	Species or species habitat may occur within area
Migratory Marine Species		
Anoxypristis cuspidata Narrow Sawfish, Knifetooth Sawfish [68448]		Species or species habitat known to occur within area
Balaenoptera bonaerensis Antarctic Minke Whale, Dark-shoulder Minke Whale [67812]		Species or species habitat likely to occur within area
Balaenoptera borealis Sei Whale [34]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Balaenoptera edeni Bryde's Whale [35]		Species or species habitat likely to occur within area

Scientific Name	Threatened Category	Presence Text
Balaenoptera musculus Blue Whale [36]	Endangered	Migration route known to occur within area
Balaenoptera physalus Fin Whale [37]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Carcharhinus longimanus Oceanic Whitetip Shark [84108]		Species or species habitat likely to occur within area
Carcharodon carcharias White Shark, Great White Shark [64470]	Vulnerable	Species or species habitat known to occur within area
Caretta caretta Loggerhead Turtle [1763]	Endangered	Congregation or aggregation known to occur within area
Chelonia mydas Green Turtle [1765]	Vulnerable	Congregation or aggregation known to occur within area
Dermochelys coriacea Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Species or species habitat known to occur within area
Dugong dugon Dugong [28]		Species or species habitat likely to occur within area
Eretmochelys imbricata Hawksbill Turtle [1766]	Vulnerable	Congregation or aggregation known to occur within area
Eubalaena australis as Balaena glacialis Southern Right Whale [40]	<u>australis</u> Endangered	Species or species habitat likely to occur within area
Isurus oxyrinchus Shortfin Mako, Mako Shark [79073]		Species or species habitat likely to occur within area

Scientific Name	Threatened Category	Presence Text
Isurus paucus Longfin Mako [82947]		Species or species habitat likely to occur within area
Lamna nasus Porbeagle, Mackerel Shark [83288]		Species or species habitat may occur within area
Megaptera novaeangliae Humpback Whale [38]		Breeding known to occur within area
Mobula alfredi as Manta alfredi Reef Manta Ray, Coastal Manta Ray [90033]		Species or species habitat known to occur within area
Mobula birostris as Manta birostris Giant Manta Ray [90034]		Species or species habitat known to occur within area
Natator depressus Flatback Turtle [59257]	Vulnerable	Congregation or aggregation known to occur within area
Orcaella heinsohni Australian Snubfin Dolphin [81322]		Species or species habitat may occur within area
Orcinus orca Killer Whale, Orca [46]		Species or species habitat may occur within area
Physeter macrocephalus Sperm Whale [59]		Species or species habitat may occur within area
Pristis clavata Dwarf Sawfish, Queensland Sawfish [68447]	Vulnerable	Species or species habitat known to occur within area
Pristis pristis Freshwater Sawfish, Largetooth Sawfish, River Sawfish, Leichhardt's Sawfish, Northern Sawfish [60756]	Vulnerable	Species or species habitat likely to occur within area

Scientific Name	Threatened Category	Presence Text
Pristis zijsron Green Sawfish, Dindagubba, Narrowsnout Sawfish [68442]	Vulnerable	Species or species habitat known to occur within area
Rhincodon typus Whale Shark [66680]	Vulnerable	Foraging, feeding or related behaviour known to occur within area
Sousa sahulensis as Sousa chinensis Australian Humpback Dolphin [87942]		Species or species habitat may occur within area
Tursiops aduncus (Arafura/Timor Sea po Spotted Bottlenose Dolphin (Arafura/Timor Sea populations) [78900]	•	Species or species habitat known to occur within area
Migratory Wetlands Species		
Actitis hypoleucos Common Sandpiper [59309]		Species or species habitat may occur within area
Calidris acuminata Sharp-tailed Sandpiper [874]		Species or species habitat may occur within area
Calidris canutus Red Knot, Knot [855]	Endangered	Species or species habitat may occur within area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat may occur within area
Calidris melanotos Pectoral Sandpiper [858]		Species or species habitat may occur within area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat may occur within area
Pandion haliaetus Osprey [952]		Species or species habitat known to occur within area

Other Matters Protected by the EPBC Act

Commonwealth Heritage Places		[Resource Information]
Name	State	Status
Natural		
Ningaloo Marine Area - Commonwealth Waters	WA	Listed place

Ningaloo Marine Area - Commonwealth V	<u>Vaters</u> WA	Listed place
Listed Marine Species		[Resource Information]
Scientific Name Bird	Threatened Category	Presence Text
Actitis hypoleucos Common Sandpiper [59309]		Species or species habitat may occur within area
Anous stolidus Common Noddy [825]		Species or species habitat may occur within area
Ardenna carneipes as Puffinus carneipes Flesh-footed Shearwater, Fleshy-footed Shearwater [82404]		Foraging, feeding or related behaviour likely to occur within area
Calidris acuminata Sharp-tailed Sandpiper [874]		Species or species habitat may occur within area
Calidris canutus Red Knot, Knot [855]	Endangered	Species or species habitat may occur within area overfly marine area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat may occur within area overfly marine area
Calidris melanotos Pectoral Sandpiper [858]		Species or species habitat may occur within area overfly marine area
Calonectris leucomelas Streaked Shearwater [1077]		Species or species habitat likely to occur within area

Scientific Name	Threatened Category	Presence Text
Diomedea amsterdamensis Amsterdam Albatross [64405]	Endangered	Species or species habitat likely to occur within area
<u>Diomedea exulans</u> Wandering Albatross [89223]	Vulnerable	Species or species habitat may occur within area
Fregata ariel Lesser Frigatebird, Least Frigatebird [1012]		Species or species habitat likely to occur within area
Fregata minor Great Frigatebird, Greater Frigatebird [1013]		Species or species habitat may occur within area
Macronectes giganteus Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area
Macronectes halli Northern Giant Petrel [1061]	Vulnerable	Species or species habitat may occur within area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat may occur within area
Onychoprion anaethetus as Sterna anaethetus anaethetus as Sterna anaethetus as Sterna anaethetus anaethetus anaethetus anaethetus anaet	<u>thetus</u>	Foraging, feeding or related behaviour may occur within area
Onychoprion fuscatus as Sterna fuscata Sooty Tern [90682]		Foraging, feeding or related behaviour likely to occur within area
Pandion haliaetus Osprey [952]		Species or species habitat known to occur within area
Papasula abbotti Abbott's Booby [59297]	Endangered	Species or species habitat may occur within area

Scientific Name	Threatened Category	Presence Text
Phaethon lepturus White-tailed Tropicbird [1014]		Species or species habitat known to occur within area
Phaethon lepturus fulvus Christmas Island White-tailed Tropicbird, Golden Bosunbird [26021]	Endangered	Species or species habitat may occur within area
Pterodroma mollis		
Soft-plumaged Petrel [1036]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Stercorarius skua as Catharacta skua Great Skua [823]		Species or species habitat may occur within area
Sterna dougallii Roseate Tern [817]		Breeding likely to occur within area
Thalassarche carteri Indian Yellow-nosed Albatross [64464]	Vulnerable	Species or species habitat may occur within area
Thalassarche cauta Shy Albatross [89224]	Endangered	Species or species habitat may occur within area
Thalassarche impavida Campbell Albatross, Campbell Black-browed Albatross [64459]	Vulnerable	Species or species habitat may occur within area
Thalassarche melanophris Black-browed Albatross [66472]	Vulnerable	Species or species habitat may occur within area
Thalassarche steadi White-capped Albatross [64462]	Vulnerable	Species or species habitat may occur within area
Thalasseus bengalensis as Sterna benga Lesser Crested Tern [66546]	<u>alensis</u>	Breeding known to occur within area
Fish		

Scientific Name	Threatened Category	Presence Text
Acentronura larsonae Helen's Pygmy Pipehorse [66186]		Species or species habitat may occur within area
Bulbonaricus brauni Braun's Pughead Pipefish, Pug-headed Pipefish [66189]		Species or species habitat may occur within area
Campichthys tricarinatus Three-keel Pipefish [66192]		Species or species habitat may occur within area
Choeroichthys brachysoma Pacific Short-bodied Pipefish, Short-bodied Pipefish [66194]		Species or species habitat may occur within area
Choeroichthys latispinosus Muiron Island Pipefish [66196]		Species or species habitat may occur within area
Choeroichthys suillus Pig-snouted Pipefish [66198]		Species or species habitat may occur within area
Corythoichthys flavofasciatus Reticulate Pipefish, Yellow-banded Pipefish, Network Pipefish [66200]		Species or species habitat may occur within area
Cosmocampus banneri Roughridge Pipefish [66206]		Species or species habitat may occur within area
Doryrhamphus dactyliophorus Banded Pipefish, Ringed Pipefish [66210]		Species or species habitat may occur within area
Doryrhamphus excisus Bluestripe Pipefish, Indian Blue-stripe Pipefish, Pacific Blue-stripe Pipefish [66211]		Species or species habitat may occur within area
Doryrhamphus janssi Cleaner Pipefish, Janss' Pipefish [66212]		Species or species habitat may occur within area

Scientific Name	Threatened Category	Presence Text
Doryrhamphus multiannulatus Many-banded Pipefish [66717]		Species or species habitat may occur within area
Doryrhamphus negrosensis Flagtail Pipefish, Masthead Island Pipefish [66213]		Species or species habitat may occur within area
Festucalex scalaris Ladder Pipefish [66216]		Species or species habitat may occur within area
Filicampus tigris Tiger Pipefish [66217]		Species or species habitat may occur within area
Halicampus brocki Brock's Pipefish [66219]		Species or species habitat may occur within area
Halicampus grayi Mud Pipefish, Gray's Pipefish [66221]		Species or species habitat may occur within area
Halicampus nitidus Glittering Pipefish [66224]		Species or species habitat may occur within area
Halicampus spinirostris Spiny-snout Pipefish [66225]		Species or species habitat may occur within area
Haliichthys taeniophorus Ribboned Pipehorse, Ribboned Seadragon [66226]		Species or species habitat may occur within area
Hippichthys penicillus Beady Pipefish, Steep-nosed Pipefish [66231]		Species or species habitat may occur within area
Hippocampus angustus Western Spiny Seahorse, Narrow-bellied Seahorse [66234]		Species or species habitat may occur within area

Scientific Name	Threatened Category	Presence Text
Hippocampus histrix Spiny Seahorse, Thorny Seahorse [66236]		Species or species habitat may occur within area
Hippocampus kuda Spotted Seahorse, Yellow Seahorse [66237]		Species or species habitat may occur within area
Hippocampus planifrons Flat-face Seahorse [66238]		Species or species habitat may occur within area
Hippocampus spinosissimus Hedgehog Seahorse [66239]		Species or species habitat may occur within area
Hippocampus trimaculatus Three-spot Seahorse, Low-crowned Seahorse, Flat-faced Seahorse [66720]		Species or species habitat may occur within area
Micrognathus micronotopterus Tidepool Pipefish [66255]		Species or species habitat may occur within area
Phoxocampus belcheri Black Rock Pipefish [66719]		Species or species habitat may occur within area
Solegnathus hardwickii Pallid Pipehorse, Hardwick's Pipehorse [66272]		Species or species habitat may occur within area
Solegnathus lettiensis Gunther's Pipehorse, Indonesian Pipefish [66273]		Species or species habitat may occur within area
Solenostomus cyanopterus Robust Ghostpipefish, Blue-finned Ghost Pipefish, [66183]	t	Species or species habitat may occur within area
Syngnathoides biaculeatus Double-end Pipehorse, Double-ended Pipehorse, Alligator Pipefish [66279]		Species or species habitat may occur within area

Scientific Name	Threatened Category	Presence Text
Trachyrhamphus bicoarctatus		
Bentstick Pipefish, Bend Stick Pipefish, Short-tailed Pipefish [66280]		Species or species habitat may occur within area
Trachyrhamphus longirostris		
Straightstick Pipefish, Long-nosed Pipefish, Straight Stick Pipefish [66281]		Species or species habitat may occur within area
Mammal		
<u>Dugong dugon</u>		
Dugong [28]		Species or species habitat likely to occur within area
Reptile		
Acalyptophis peronii		
Horned Seasnake [1114]		Species or species habitat may occur within area
Aipysurus apraefrontalis		
Short-nosed Seasnake [1115]	Critically Endangered	Species or species habitat known to occur within area
Aipysurus duboisii		
Dubois' Seasnake [1116]		Species or species habitat may occur within area
Aipysurus eydouxii		
Spine-tailed Seasnake [1117]		Species or species habitat may occur within area
Aipysurus foliosquama		
Leaf-scaled Seasnake [1118]	Critically Endangered	Species or species habitat known to occur within area
Aipysurus laevis		
Olive Seasnake [1120]		Species or species habitat may occur within area
Aipysurus tenuis		
Brown-lined Seasnake [1121]		Species or species habitat may occur within area
Astrotia stokesii		
Stokes' Seasnake [1122]		Species or species habitat may occur within area

Scientific Name	Threatened Category	Presence Text
Caretta caretta	0 ,	
Loggerhead Turtle [1763]	Endangered	Congregation or aggregation known to occur within area
<u>Chelonia mydas</u>		
Green Turtle [1765]	Vulnerable	Congregation or aggregation known to occur within area
Chitulia ornata as Hydrophis ornatus Spotted Seasnake, Ornate Reef Seasnake [87377]		Species or species habitat may occur within area
Dermochelys coriacea Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Species or species habitat known to occur within area
Disteira kingii Spectacled Seasnake [1123]		Species or species habitat may occur within area
Disteira major Olive-headed Seasnake [1124]		Species or species habitat may occur within area
Emydocephalus annulatus		
Turtle-headed Seasnake [1125]		Species or species habitat may occur within area
Ephalophis greyi North-western Mangrove Seasnake [1127]		Species or species habitat may occur within area
Eretmochelys imbricata		
Hawksbill Turtle [1766]	Vulnerable	Congregation or aggregation known to occur within area
Hydrophis elegans Elegant Seasnake [1104]		Species or species habitat may occur within area
Hydrophis macdowelli as Hydrophis mcdo Small-headed Seasnake [75601]	<u>owelli</u>	Species or species habitat may occur within area

Scientific Name	Threatened Category	Presence Text
Leioselasma czeblukovi as Hydrophis cz	<u>eblukovi</u>	
Fine-spined Seasnake, Geometrical Seasnake [87374]		Species or species habitat may occur within area
Natator depressus		
Flatback Turtle [59257]	Vulnerable	Congregation or aggregation known to occur within area
Pelamis platurus		
Yellow-bellied Seasnake [1091]		Species or species habitat may occur within area

Whales and Other Cetaceans		[Resource Information]
Current Scientific Name	Status	Type of Presence
Mammal		
Balaenoptera acutorostrata		
Minke Whale [33]		Species or species
		habitat may occur
		within area
Deleganentore honograpsia		
Balaenoptera bonaerensis Antarctic Minke Whale, Dark-shoulder		Species or species
Minke Whale [67812]		Species or species habitat likely to occur
Willing Wildle [07012]		within area
Balaenoptera borealis		
Sei Whale [34]	Vulnerable	Foraging, feeding or
		related behaviour
		likely to occur within
		area
Balaenoptera edeni		
Bryde's Whale [35]		Species or species
2.) 4.0 0		habitat likely to occur
		within area
Balaenoptera musculus		
Blue Whale [36]	Endangered	Migration route known
		to occur within area
Balaenoptera physalus		
Fin Whale [37]	Vulnerable	Foraging, feeding or
		related behaviour
		likely to occur within
		area
Delphinus delphis		
Common Dolphin, Short-beaked		Species or species
Common Dolphin [60]		habitat may occur
		within area

Current Scientific Name	Status	Type of Presence
Eubalaena australis Southern Right Whale [40]	Endangered	Species or species habitat likely to occur within area
Feresa attenuata Pygmy Killer Whale [61]		Species or species habitat may occur within area
Globicephala macrorhynchus Short-finned Pilot Whale [62]		Species or species habitat may occur within area
Grampus griseus Risso's Dolphin, Grampus [64]		Species or species habitat may occur within area
Indopacetus pacificus Longman's Beaked Whale [72]		Species or species habitat may occur within area
Kogia breviceps Pygmy Sperm Whale [57]		Species or species habitat may occur within area
Kogia sima as Kogia simus Dwarf Sperm Whale [85043]		Species or species habitat may occur within area
<u>Lagenodelphis hosei</u> Fraser's Dolphin, Sarawak Dolphin [41]		Species or species habitat may occur within area
Megaptera novaeangliae Humpback Whale [38]		Breeding known to occur within area
Mesoplodon densirostris Blainville's Beaked Whale, Densebeaked Whale [74]		Species or species habitat may occur within area
Mesoplodon ginkgodens Gingko-toothed Beaked Whale, Gingko-toothed Whale, Gingko Beaked Whale [59564]		Species or species habitat may occur within area

Mesoplodon grayi Gray's Beaked Whale, Scamperdown Whale [75] Species or species habitat may occur within area Orcaella heinsohni as Orcaella brevirostris Australian Snubfin Dolphin [81322] Species or species habitat may occur within area Orcinus orca Killer Whale, Orca [46] Species or species habitat may occur within area Peponocephala electra Melon-headed Whale [47] Species or species habitat may occur within area Physeter macrocephalus Sperm Whale [59] Species or species habitat may occur within area Pseudorca crassidens False Killer Whale [48] Species or species habitat may occur within area Sousa sahulensis as Sousa chinensis Australian Humpback Dolphin [87942] Species or species habitat may occur within area Stenella attenusta Spotted Dolphin, Pantropical Spotted Species or species habitat may occur within area Stenella coeruleoalba Striped Dolphin, Euphrosyne Dolphin Species or species habitat may occur within area Stenella longirostris Long-snouted Spinner Dolphin [29] Species or species habitat may occur within area Steno bredanensis Rough-toothed Dolphin [30] Species or species habitat may occur within area	Current Scientific Name	Status	Type of Presence
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Long-snouted Spinner Dolphin [29] Species or species habitat may occur within area Steno bredanensis Rough-toothed Dolphin [30] Species or species habitat may occur	Stenella longirostris		
Rough-toothed Dolphin [30] Species or species habitat may occur	3		habitat may occur
habitat may occur	Steno bredanensis		
	Rough-toothed Dolphin [30]		habitat may occur

Current Scientific Name	Status	Type of Presence	
Tursiops aduncus Indian Ocean Bottlenose Dolphin Spotted Bottlenose Dolphin [684]	•	Species or species habitat likely to occur within area	
Tursiops aduncus (Arafura/Timor Sea populations)			

Tursiops adund	cus (Arafura/Timor	Sea populations)

Spotted Bottlenose Dolphin (Arafura/Timor Sea populations) [78900] Species or species habitat known to occur within area

Tursiops truncatus s. str.

Bottlenose Dolphin [68417] Species or species habitat may occur within area

Ziphius cavirostris

Cuvier's Beaked Whale, Goose-beaked Species or species habitat may occur Whale [56] within area

Australian Marine Parks	[Resource Information]
Park Name	Zone & IUCN Categories
Abrolhos	Habitat Protection Zone (IUCN IV)
Carnarvon Canyon	Habitat Protection Zone (IUCN IV)
Gascoyne	Habitat Protection Zone (IUCN IV)
Abrolhos	Multiple Use Zone (IUCN VI)
Gascoyne	Multiple Use Zone (IUCN VI)
Montebello	Multiple Use Zone (IUCN VI)

Habitat Critical to the Survival of Marine Turtles		
Scientific Name	Behaviour	Presence
Aug - Sep		
Natator depressus		
Flatback Turtle [59257]	Nesting	Known to occur

IV)

National Park Zone (IUCN II)

Recreational Use Zone (IUCN

Dec - Jan

Gascoyne

Ningaloo

Chelonia mydas

Green Turtle [1765] Nesting Known to occur

Behaviour	Presence
Nesting	Known to occur
Nesting	Known to occur
	Nesting

Extra Information

EPBC Act Referrals			[Resource Information]
Title of referral	Reference	Referral Outcome	Assessment Status
Browse to North West Shelf Development, Indian Ocean, WA	2018/8319		Approval
Project Highclere Cable Lay and Operation	2022/09203		Completed
Action clearly unacceptable			
Highlands 3D Marine Seismic Survey	2012/6680	Action Clearly Unacceptable	Completed
Controlled action			
'Van Gogh' Petroleum Field Development	2007/3213	Controlled Action	Post-Approval
Construct and operate LNG & domestic gas plant including onshore and offshore facilities - Wheatston	2008/4469	Controlled Action	Post-Approval
Develop Jansz-lo deepwater gas field in Permit Areas WA-18-R, WA-25-R and WA-26-	2005/2184	Controlled Action	Post-Approval
Development of Angel gas and condensate field, North West Shelf	2004/1805	Controlled Action	Post-Approval
Development of Browse Basin Gas Fields (Upstream)	2008/4111	Controlled Action	Completed
Development of Coniston/Novara fields within the Exmouth Sub-basin	2011/5995	Controlled Action	Post-Approval
Development of Stybarrow petroleum field incl drilling and facility installation	2004/1469	Controlled Action	Post-Approval

Title of referral	Reference	Referral Outcome	Assessment Status
Controlled action			
Echo-Yodel Production Wells	2000/11	Controlled Action	Post-Approval
Enfield full field development	2004/257	Controlled Astion	Doot Approval
Enfield full field development	2001/257	Controlled Action	Post-Approval
Equus Gas Fields Development	2012/6301	Controlled Action	Completed
Project, Carnarvon Basin	2012,0001		
Gorgon Gas Development	2003/1294	Controlled Action	Post-Approval
	0044/5040		
Gorgon Gas Development 4th Train	2011/5942	Controlled Action	Post-Approval
<u>Proposal</u>			
Greater Enfield (Vincent)	2005/2110	Controlled Action	Post-Approval
<u>Development</u>	2003/2110	Controlled Action	ι υσι-πρριοναί
Dovolopinon			
Light Crude Oil Production	2001/365	Controlled Action	Post-Approval
Nava-1 Cable System	2001/510	Controlled Action	Completed
Dluta Can Project	2005/2250	Controlled Action	Completed
Pluto Gas Project	2005/2258	Controlled Action	Completed
Pluto Gas Project Including Site B	2006/2968	Controlled Action	Post-Approval
Pyrenees Oil Fields Development	2005/2034	Controlled Action	Post-Approval
The Coetherough Drainet FLNC 9	2042/0044	Controlled Astion	Doot Approval
The Scarborough Project - FLNG & assoc subsea infrastructure,	2013/6811	Controlled Action	Post-Approval
Carnarvon Basin			
<u>Garrial Voll Baolii</u>			
Vincent Appraisal Well	2000/22	Controlled Action	Post-Approval
Not controlled action			
'Van Gogh' Oil Appraisal Drilling	2006/3148	Not Controlled	Completed
Program, Exploration Permit Area WA-155-P(1)		Action	
<u>VVA-133-F (1)</u>			
APX-West Fibre-optic	2013/7102	Not Controlled	Completed
telecommunications cable system,		Action	P
WA to Singapore			
Bollinger 2D Seismic Survey 200km	2004/1868	Not Controlled	Completed
North of North West Cape WA		Action	
Bultaco-2, Laverda-2, Laverda-3 and	2000/103	Not Controlled	Completed
Montesa-2 Appraisal Wells	2 3	Action	1

Title of referral	Reference	Referral Outcome	Assessment Status
Not controlled action			
Carnarvon 3D Marine Seismic Survey	2004/1890	Not Controlled Action	Completed
Cazadores 2D seismic survey	2004/1720	Not Controlled Action	Completed
Construction and operation of an unmanned sea platform and connecting pipeline to Varanus Island for	2004/1703	Not Controlled Action	Completed
Controlled Source Electromagnetic Survey	2007/3262	Not Controlled Action	Completed
Development of Halyard Field off the west coast of WA	2010/5611	Not Controlled Action	Completed
Development of Mutineer and Exeter petroleum fields for oil production, Permit	2003/1033	Not Controlled Action	Completed
Echo A Development WA-23-L, WA-24-L	2005/2042	Not Controlled Action	Completed
Exploration drilling well WA-155-P(1)	2003/971	Not Controlled Action	Completed
Exploration of appraisal wells	2006/3065	Not Controlled Action	Completed
Exploration Well in Permit Area WA- 155-P(1)	2002/759	Not Controlled Action	Completed
Exploratory drilling in permit area WA- 225-P	2001/490	Not Controlled Action	Completed
HCA05X Macedon Experimental Survey	2004/1926	Not Controlled Action	Completed
Hess Exploration Drilling Programme	2007/3566	Not Controlled Action	Completed
INDIGO West Submarine Telecommunications Cable, WA	2017/8126	Not Controlled Action	Completed
Infill Production Well (Griffin-9)	2001/417	Not Controlled Action	Completed
Jansz-2 and 3 Appraisal Wells	2002/754	Not Controlled Action	Completed
Klammer 2D Seismic Survey	2002/868	Not Controlled Action	Completed
Maia-Gaea Exploration wells	2000/17	Not Controlled Action	Completed

Title of referral	Reference	Referral Outcome	Assessment Status
Not controlled action			
Manaslu - 1 and Huascaran - 1	2001/235	Not Controlled	Completed
Offshore Exploration Wells		Action	
Montesa-1 and Bultaco-1 Exploration Wells	2000/102	Not Controlled Action	Completed
Project Highclere Geophysical Survey	2021/9023	Not Controlled Action	Completed
Subsea Gas Pipeline From Stybarrow Field to Griffin Venture Gas Export Pipeline	2005/2033	Not Controlled Action	Completed
sub-sea tieback of Perseus field wells	2004/1326	Not Controlled Action	Completed
Telstra North Rankin Spur Fibre Optic Cable	2016/7836	Not Controlled Action	Completed
To construct and operate an offshore submarine fibre optic cable, WA	2014/7373	Not Controlled Action	Completed
WA-295-P Kerr-McGee Exploration Wells	2001/152	Not Controlled Action	Completed
Wanda Offshore Research Project, 80 km north-east of Exmouth, WA	2018/8293	Not Controlled Action	Completed
Western Flank Gas Development	2005/2464	Not Controlled Action	Completed
Wheatstone 3D seismic survey, 70km north of Barrow Island	2004/1761	Not Controlled Action	Completed
Not controlled action (particular manne	ne)		
Not controlled action (particular manne 'Kate' 3D marine seismic survey, exploration permits WA-320-P and WA-345-P, 60km	2005/2037	Not Controlled Action (Particular Manner)	Post-Approval
'Tourmaline' 2D marine seismic survey, permit areas WA-323-P, WA- 330-P and WA-32	2005/2282	Not Controlled Action (Particular Manner)	Post-Approval
"Leanne" offshore 3D seismic exploration, WA-356-P	2005/1938	Not Controlled Action (Particular Manner)	Post-Approval
2D and 3D seismic surveys	2005/2151	Not Controlled Action (Particular Manner)	Post-Approval
2D marine seismic survey	2012/6296	Not Controlled Action	Post-Approval

Title of referral Not controlled action (particular manne	Reference	Referral Outcome	Assessment Status
Not controlled action (particular manne	51 <i>)</i>	(Particular Manner)	
2D seismic survey	2008/4493	Not Controlled Action (Particular Manner)	Post-Approval
2D Seismic Survey Permit Area WA- 352-P	2008/4628	Not Controlled Action (Particular Manner)	Post-Approval
2D seismic survey within permit WA-291	2007/3265	Not Controlled Action (Particular Manner)	Post-Approval
3D marine seismic survey	2008/4281	Not Controlled Action (Particular Manner)	Post-Approval
3D Marine Seismic Survey (WA-482-P, WA-363-P), WA	2013/6761	Not Controlled Action (Particular Manner)	Post-Approval
3D Marine Seismic Survey in Permit Areas WA-15-R, WA-18-R, WA-205-P, WA-253-P, WA-267-P and WA-268-P	2003/1271	Not Controlled Action (Particular Manner)	Post-Approval
3D Marine Seismic Survey in WA 457-P & WA 458-P, North West Shelf, offshore WA	2013/6862	Not Controlled Action (Particular Manner)	Post-Approval
3D marine seismic survey over petroleum title WA-268-P	2007/3458	Not Controlled Action (Particular Manner)	Post-Approval
3D Marine Seismic Surveys - Contos CT-13 & Supertubes CT-13, offshore WA	2013/6901	Not Controlled Action (Particular Manner)	Post-Approval
3D seismic survey	2006/2715	Not Controlled Action (Particular Manner)	Post-Approval
3D Seismic Survey, WA	2008/4428	Not Controlled Action (Particular Manner)	Post-Approval

Title of referral Not controlled action (particular manne	Reference	Referral Outcome	Assessment Status
3D sesmic survey	2006/2781	Not Controlled Action (Particular Manner)	Post-Approval
Acheron Non-Exclusive 2D Seismic Survey	2009/4968	Not Controlled Action (Particular Manner)	Post-Approval
Acheron Non-Exclusive 2D Seismic Survey	2008/4565	Not Controlled Action (Particular Manner)	Post-Approval
Agrippina 3D Seismic Marine Survey	2009/5212	Not Controlled Action (Particular Manner)	Post-Approval
Apache Northwest Shelf Van Gogh Field Appraisal Drilling Program	2007/3495	Not Controlled Action (Particular Manner)	Post-Approval
Aperio 3D Marine Seismic Survey, WA	2012/6648	Not Controlled Action (Particular Manner)	Post-Approval
Artemis-1 Drilling Program (WA-360-P)	2010/5432	Not Controlled Action (Particular Manner)	Post-Approval
Australia to Singapore Fibre Optic Submarine Cable System	2011/6127	Not Controlled Action (Particular Manner)	Post-Approval
Babylon 3D Marine Seismic Survey, Commonwealth Waters, nr Exmouth WA	2013/7081	Not Controlled Action (Particular Manner)	Post-Approval
Balnaves Condensate Field Development	2011/6188	Not Controlled Action (Particular Manner)	Post-Approval
Bonaventure 3D seismic survey	2006/2514	Not Controlled Action (Particular Manner)	Post-Approval
Cable Seismic Exploration Permit areas WA-323-P and WA-330-P	2008/4227	Not Controlled Action (Particular	Post-Approval

Title of referral	Reference	Referral Outcome	Assessment Status
Not controlled action (particular manne	er)		
		Manner)	
CGGVERITAS 2010 2D Seismic Survey	2010/5714	Not Controlled Action (Particular Manner)	Post-Approval
Charon 3D Marine Seismic Survey	2007/3477	Not Controlled Action (Particular Manner)	Post-Approval
Coverack Marine Seismic Survey	2001/399	Not Controlled Action (Particular Manner)	Post-Approval
Cue Seismic Survey within WA-359-P, WA-361-P and WA-360-P	2007/3647	Not Controlled Action (Particular Manner)	Post-Approval
CVG 3D Marine Seismic Survey	2012/6654	Not Controlled Action (Particular Manner)	Post-Approval
DAVROS MC 3D marine seismic survey northwaet of Dampier, WA	2013/7092	Not Controlled Action (Particular Manner)	Post-Approval
Deep Water Drilling Program	2010/5532	Not Controlled Action (Particular Manner)	Post-Approval
Deep Water Northwest Shelf 2D Seismic Survey	2007/3260	Not Controlled Action (Particular Manner)	Post-Approval
Demeter 3D Seismic Survey, off Dampier, WA	2002/900	Not Controlled Action (Particular Manner)	Post-Approval
<u>Draeck 3D Marine Seismic Survey,</u> <u>WA-205-P</u>	2006/3067	Not Controlled Action (Particular Manner)	Post-Approval
Drilling 35-40 offshore exploration wells in deep water	2008/4461	Not Controlled Action (Particular Manner)	Post-Approval

Title of referral	Reference	Referral Outcome	Assessment Status
Not controlled action (particular manne <u>Eendracht Multi-Client 3D Marine</u> <u>Seismic Survey</u>	er) 2009/4749	Not Controlled Action (Particular Manner)	Post-Approval
Enfield M3 & Vincent 4D Marine Seismic Surveys	2008/3981	Not Controlled Action (Particular Manner)	Completed
Enfield M3 4D, Vincent 4D & 4D Line Test Marine Seismic Surveys	2008/4122	Not Controlled Action (Particular Manner)	Post-Approval
Enfield M4 4D Marine Seismic Survey	2008/4558	Not Controlled Action (Particular Manner)	Post-Approval
Enfield oilfield 3D Seismic Survey	2006/3132	Not Controlled Action (Particular Manner)	Post-Approval
Exmouth West 2D Marine Seismic Survey	2008/4132	Not Controlled Action (Particular Manner)	Post-Approval
Exploration drilling of Zeus-1 well	2008/4351	Not Controlled Action (Particular Manner)	Post-Approval
Fletcher-Finucane Development, WA26-L and WA191-P	2011/6123	Not Controlled Action (Particular Manner)	Post-Approval
Foxhound 3D Non-Exclusive Marine Seismic Survey	2009/4703	Not Controlled Action (Particular Manner)	Post-Approval
Geco Eagle 3D Marine Seismic Survey	2008/3958	Not Controlled Action (Particular Manner)	Post-Approval
Glencoe 3D Marine Seismic Survey WA-390-P	2007/3684	Not Controlled Action (Particular Manner)	Post-Approval
Greater Western Flank Phase 1 gas Development	2011/5980	Not Controlled Action (Particular	Post-Approval

Title of referral	Reference	Referral Outcome	Assessment Status
Not controlled action (particular manne	er)		
Cupamala 2D Marina Cajamia	2000/4204	Manner)	Doot Approval
Guacamole 2D Marine Seismic Survey	2008/4381	Not Controlled Action (Particular Manner)	Post-Approval
Harmony 3D Marine Seismic Survey	2012/6699	Not Controlled Action (Particular Manner)	Post-Approval
Honeycombs MC3D Marine Seismic Survey	2012/6368	Not Controlled Action (Particular Manner)	Post-Approval
Huzzas MC3D Marine Seismic Survey (HZ-13) Carnarvon Basin, offshore WA	2013/7003	Not Controlled Action (Particular Manner)	Post-Approval
Huzzas phase 2 marine seismic survey, Exmouth Plateau, Northern Carnarvon Basin, WA	2013/7093	Not Controlled Action (Particular Manner)	Post-Approval
INDIGO Marine Cable Route Survey (INDIGO)	2017/7996	Not Controlled Action (Particular Manner)	Post-Approval
John Ross & Rosella Off Bottom Cable Seismic Exploration Program	2008/3966	Not Controlled Action (Particular Manner)	Post-Approval
Judo Marine 3D Seismic Survey within and adjacent to WA-412-P	2008/4630	Not Controlled Action (Particular Manner)	Post-Approval
Judo Marine 3D Seismic Survey within and adjacent to WA-412-P	2009/4801	Not Controlled Action (Particular Manner)	Post-Approval
Julimar Brunello Gas Development Project	2011/5936	Not Controlled Action (Particular Manner)	Post-Approval
Klimt 2D Marine Seismic Survey	2007/3856	Not Controlled Action (Particular Manner)	Post-Approval

Title of referral	Reference	Referral Outcome	Assessment Status
Not controlled action (particular manne Laverda 3D Marine Seismic Survey and Vincent M1 4D Marine Seismic Survey	2010/5415	Not Controlled Action (Particular Manner)	Post-Approval
Laying a submarine optical fibre telecommunications cable, Perth to Singapore and Jakarta	2014/7332	Not Controlled Action (Particular Manner)	Post-Approval
Leopard 2D marine seismic survey	2005/2290	Not Controlled Action (Particular Manner)	Post-Approval
Lion 2D Marine Seismic Survey	2007/3777	Not Controlled Action (Particular Manner)	Post-Approval
Macedon Gas Field Development	2008/4605	Not Controlled Action (Particular Manner)	Post-Approval
Marine reconnaissance survey	2008/4466	Not Controlled Action (Particular Manner)	Post-Approval
Moosehead 2D seismic survey within permit WA-192-P	2005/2167	Not Controlled Action (Particular Manner)	Post-Approval
Munmorah 2D seismic survey within permits WA-308/9-P	2003/970	Not Controlled Action (Particular Manner)	Post-Approval
Ocean Bottom Cable Seismic Program, WA-264-P	2007/3844	Not Controlled Action (Particular Manner)	Post-Approval
Ocean Bottom Cable Seismic Survey	2005/2017	Not Controlled Action (Particular Manner)	Post-Approval
Offshore Canning Multi Client 2D Marine Seismic Survey	2010/5393	Not Controlled Action (Particular Manner)	Post-Approval
Offshore Drilling Campaign	2011/5830	Not Controlled Action (Particular	Post-Approval

Title of referral	Reference	Referral Outcome	Assessment Status
Not controlled action (particular manne	er)		
Orcus 3D Marine Seismic Survey in	2010/5723	Manner) Not Controlled	Post-Approval
<u>WA-450-P</u>		Action (Particular Manner)	
Osprey and Dionysus Marine Seismic Survey	2011/6215	Not Controlled Action (Particular Manner)	Post-Approval
Palta-1 exploration well in Petroleum Permit Area WA-384-P	2011/5871	Not Controlled Action (Particular Manner)	Post-Approval
Pomodoro 3D Marine Seismic Survey in WA-426-P and WA-427-P	2010/5472	Not Controlled Action (Particular Manner)	Post-Approval
Pyrenees 4D Marine Seismic Monitor Survey, HCA12A	2012/6579	Not Controlled Action (Particular Manner)	Post-Approval
Pyrenees-Macedon 3D marine seismic survey	2005/2325	Not Controlled Action (Particular Manner)	Post-Approval
Quiberon 2D Seismic Survey, permit area WA-385P, offshore of Carnarvon	2009/5077	Not Controlled Action (Particular Manner)	Post-Approval
Rose 3D Seismic Program	2008/4239	Not Controlled Action (Particular Manner)	Post-Approval
Rydal-1 Petroleum Exploration Well, WA	2012/6522	Not Controlled Action (Particular Manner)	Post-Approval
Salsa 3D Marine Seismic Survey	2010/5629	Not Controlled Action (Particular Manner)	Post-Approval
Santos Winchester three dimensional seismic survey - WA-323-P & WA-330-P	2011/6107	Not Controlled Action (Particular Manner)	Post-Approval

Title of referral	Reference	Referral Outcome	Assessment Status
Not controlled action (particular manne	er)		
Skorpion Marine Seismic Survey WA	2001/416	Not Controlled Action (Particular Manner)	Post-Approval
Sovereign 3D Marine Seismic Survey	2011/5861	Not Controlled Action (Particular Manner)	Post-Approval
Stybarrow 4D Marine Seismic Survey	2011/5810	Not Controlled Action (Particular Manner)	Post-Approval
Stybarrow Baseline 4D marine seismic survey	2008/4530	Not Controlled Action (Particular Manner)	Post-Approval
Tortilla 2D Seismic Survey, WA	2011/6110	Not Controlled Action (Particular Manner)	Post-Approval
Triton 3D Marine Seismic Survey, WA-2-R and WA-3-R	2006/2609	Not Controlled Action (Particular Manner)	Post-Approval
Undertake a three dimensional marine seismic survey	2010/5679	Not Controlled Action (Particular Manner)	Post-Approval
Vincent M1 and Enfield M5 4D Marine Seismic Survey	2010/5720	Not Controlled Action (Particular Manner)	Post-Approval
Warramunga Non-Inclusive 3D Seismic Survey	2008/4553	Not Controlled Action (Particular Manner)	Post-Approval
West Anchor 3D Marine Seismic Survey	2008/4507	Not Controlled Action (Particular Manner)	Post-Approval
West Panaeus 3D seismic survey	2006/3141	Not Controlled Action (Particular Manner)	Post-Approval
Westralia SPAN Marine Seismic Survey, WA & NT	2012/6463	Not Controlled Action (Particular	Post-Approval

Title of referral Not controlled action (particular manne	Reference	Referral Outcome	Assessment Status
Not controlled action (particular maille	51 <i>)</i>	Manner)	
Wheatstone 3D MAZ Marine Seismic Survey	2011/6058	Not Controlled Action (Particular Manner)	Post-Approval
Wheatstone lago Appraisal Well Drilling	2007/3941	Not Controlled Action (Particular Manner)	Post-Approval
Wheatstone lago Appraisal Well Drilling	2008/4134	Not Controlled Action (Particular Manner)	Post-Approval
Referral decision			
3D Seismic Survey	2008/4219	Referral Decision	Completed
Bianchi 3D Marine Seismic Survey, Carnavon Basin, WA	2013/7078	Referral Decision	Completed
CVG 3D Marine Seismic Survey	2012/6270	Referral Decision	Completed
Enfield 4D Marine Seismic Surveys, Production Permit WA-28-L	2005/2370	Referral Decision	Completed
Rose 3D Seismic acquisition survey	2008/4220	Referral Decision	Completed
Stybarrow Baseline 4D Marine Seismic Survey (Permit Areas WA- 255-P, WA-32-L, WA-	2008/4165	Referral Decision	Completed

Key Ecological Features

[Resource Information]

Key Ecological Features are the parts of the marine ecosystem that are considered to be important for the biodiversity or ecosystem functioning and integrity of the Commonwealth Marine Area.

Name	Region
Ancient coastline at 125 m depth contour	North-west
Canyons linking the Cuvier Abyssal Plain and the Cape Range Peninsula	North-west
Commonwealth waters adjacent to Ningaloo Reef	North-west
Continental Slope Demersal Fish Communities	North-west
Exmouth Plateau	North-west

Name	Region
Glomar Shoals	North-west
Wallaby Saddle	North-west
Western demersal slope and associated fish communities	South-west

Biologically Important Areas		
Scientific Name	Behaviour	Presence
Marine Turtles		
Caretta caretta		
Loggerhead Turtle [1763]	Internesting buffer	Known to occur
Chelonia mydas		
Green Turtle [1765]	Internesting buffer	Known to occur
Eretmochelys imbricata		
Hawksbill Turtle [1766]	Internesting buffer	Known to occur
Natator depressus		
Flatback Turtle [59257]	Internesting buffer	Known to occur
Seabirds		
Ardenna pacifica		
Wedge-tailed Shearwater [84292]	Breeding	Known to occur
Onychoprion fuscata		
Sooty Tern [82847]	Foraging	Known to occur
Sterna dougallii		
Roseate Tern [817]	Breeding	Known to occur
Otanasia a anala		
Sternula nereis Fairy Tern [82949]	Breeding	Known to occur
The lease we have released		
Thalasseus bengalensis Lesser Crested Tern [66546]	Breeding	Known to occur
Sharks		
Rhincodon typus		
Whale Shark [66680]	Foraging	Known to occur
Whales		

Scientific Name	Behaviour	Presence
Balaenoptera musculus brevicauda Pygmy Blue Whale [81317]	Distribution	Known to occur
Balaenoptera musculus brevicauda Pygmy Blue Whale [81317]	Foraging	Known to occur
Balaenoptera musculus brevicauda Pygmy Blue Whale [81317]	Migration	Known to occur
Megaptera novaeangliae Humpback Whale [38]	Migration (north and south)	Known to occur

Caveat

1 PURPOSE

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

The report contains the mapped locations of:

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

2 DISCLAIMER

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

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

3 DATA SOURCES

Threatened ecological communities

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

Threatened, migratory and marine species

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

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

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

4 LIMITATIONS

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

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

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

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

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

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

Acknowledgements

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

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

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

Please feel free to provide feedback via the **Contact us** page.

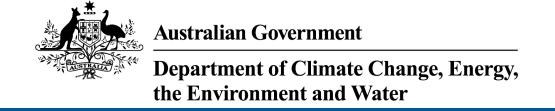
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EPBC Act Protected Matters Report

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

Operational Area-Subsea

Report created: 13-Mar-2023

Summary

Details

Matters of NES
Other Matters Protected by the EPBC Act

Caveat

Acknowledgements

Extra Information

Summary

Matters of National Environment Significance

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

World Heritage Properties:	None
National Heritage Places:	None
Wetlands of International Importance (Ramsar	None
Great Barrier Reef Marine Park:	None
Commonwealth Marine Area:	1
Listed Threatened Ecological Communities:	None
Listed Threatened Species:	14
Listed Migratory Species:	26

Other Matters Protected by the EPBC Act

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

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

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

Commonwealth Lands:	None
Commonwealth Heritage Places:	None
Listed Marine Species:	17
Whales and Other Cetaceans:	25
Critical Habitats:	None
Commonwealth Reserves Terrestrial:	None
Australian Marine Parks:	None
Habitat Critical to the Survival of Marine Turtles:	None

Extra Information

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

State and Territory Reserves:	None
Regional Forest Agreements:	None
Nationally Important Wetlands:	None
EPBC Act Referrals:	18
Key Ecological Features (Marine):	1
Biologically Important Areas:	1
Bioregional Assessments:	None
Geological and Bioregional Assessments:	None

Details

Matters of National Environmental Significance

Commonwealth Marine Area

[Resource Information]

Approval is required for a proposed activity that is located within the Commonwealth Marine Area which has, will have, or is likely to have a significant impact on the environment. Approval may be required for a proposed action taken outside a Commonwealth Marine Area but which has, may have or is likely to have a significant impact on the environment in the Commonwealth Marine Area.

Feature Name

EEZ and Territorial Sea

Listed Threatened Species [Resource Information				
Status of Conservation Dependent and Ex Number is the current name ID.	xtinct are not MNES unde	er the EPBC Act.		
Scientific Name	Threatened Category	Presence Text		
BIRD				
Calidris canutus				
Red Knot, Knot [855]	Endangered	Species or species habitat may occur within area		
Macronectes giganteus				
Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area		
Phaethon lepturus fulvus				
Christmas Island White-tailed Tropicbird, Golden Bosunbird [26021]	Endangered	Species or species habitat may occur within area		
FISH				
Thunnus maccoyii				
Southern Bluefin Tuna [69402]	Conservation Dependent	Breeding known to occur within area		
MAMMAL				
Balaenoptera borealis				
Sei Whale [34]	Vulnerable	Species or species habitat likely to occur within area		
Balaenoptera musculus				
Blue Whale [36]	Endangered	Species or species habitat likely to occur within area		

Scientific Name	Threatened Category	Presence Text
Balaenoptera physalus Fin Whale [37]	Vulnerable	Species or species habitat likely to occur within area
REPTILE		
Caretta caretta Loggerhead Turtle [1763]	Endangered	Species or species habitat likely to occur within area
Chelonia mydas Green Turtle [1765]	Vulnerable	Species or species habitat likely to occur within area
Dermochelys coriacea Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Species or species habitat likely to occur within area
Eretmochelys imbricata Hawksbill Turtle [1766]	Vulnerable	Species or species habitat likely to occur within area
Natator depressus Flatback Turtle [59257]	Vulnerable	Species or species habitat likely to occur within area
SHARK		
Carcharodon carcharias		
White Shark, Great White Shark [64470]	Vulnerable	Species or species habitat may occur within area
Sphyrna lewini Scalloped Hammerhead [85267]	Conservation Dependent	Species or species habitat may occur within area
Listed Migratory Species		[Resource Information]
Scientific Name Migratory Marine Birds	Threatened Category	Presence Text
Anous stolidus Common Noddy [825]		Species or species habitat may occur within area
Fregata ariel Lesser Frigatebird, Least Frigatebird [1012]		Species or species habitat may occur within area

Scientific Name	Threatened Category	Presence Text
Macronectes giganteus Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area
Phaethon lepturus White-tailed Tropicbird [1014]		Species or species habitat may occur within area
Migratory Marine Species		
Balaenoptera bonaerensis Antarctic Minke Whale, Dark-shoulder Minke Whale [67812]		Species or species habitat likely to occur within area
Balaenoptera borealis Sei Whale [34]	Vulnerable	Species or species habitat likely to occur within area
Balaenoptera edeni Bryde's Whale [35]		Species or species habitat likely to occur within area
Balaenoptera musculus Blue Whale [36]	Endangered	Species or species habitat likely to occur within area
Balaenoptera physalus Fin Whale [37]	Vulnerable	Species or species habitat likely to occur within area
Carcharhinus longimanus Oceanic Whitetip Shark [84108]		Species or species habitat may occur within area
Carcharodon carcharias White Shark, Great White Shark [64470]	Vulnerable	Species or species habitat may occur within area
Caretta caretta Loggerhead Turtle [1763]	Endangered	Species or species habitat likely to occur within area
Chelonia mydas Green Turtle [1765]	Vulnerable	Species or species habitat likely to occur within area

Scientific Name	Threatened Category	Presence Text
Dermochelys coriacea Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Species or species habitat likely to occur within area
Eretmochelys imbricata Hawksbill Turtle [1766]	Vulnerable	Species or species habitat likely to occur within area
Isurus oxyrinchus Shortfin Mako, Mako Shark [79073]		Species or species habitat likely to occur within area
Isurus paucus Longfin Mako [82947]		Species or species habitat likely to occur within area
Megaptera novaeangliae Humpback Whale [38]		Species or species habitat may occur within area
Mobula birostris as Manta birostris Giant Manta Ray [90034]		Species or species habitat may occur within area
Natator depressus Flatback Turtle [59257]	Vulnerable	Species or species habitat likely to occur within area
Orcinus orca Killer Whale, Orca [46]		Species or species habitat may occur within area
Physeter macrocephalus Sperm Whale [59]		Species or species habitat may occur within area
Migratory Wetlands Species		
Actitis hypoleucos Common Sandpiper [59309]		Species or species habitat may occur within area
Calidris acuminata Sharp-tailed Sandpiper [874]		Species or species habitat may occur within area

Scientific Name	Threatened Category	Presence Text
Calidris canutus		
Red Knot, Knot [855]	Endangered	Species or species habitat may occur within area
Calidris melanotos		
Pectoral Sandpiper [858]		Species or species
		habitat may occur within area

Other Matters Protected by the EPBC Act

Listed Marine Species		[Resource Information]
Scientific Name	Threatened Category	Presence Text
Bird		
Actitis hypoleucos Common Sandpiper [59309]		Species or species habitat may occur within area
Anous stolidus		
Common Noddy [825]		Species or species habitat may occur within area
Calidris acuminata		
Sharp-tailed Sandpiper [874]		Species or species habitat may occur within area
Calidris canutus		
Red Knot, Knot [855]	Endangered	Species or species habitat may occur within area overfly marine area
Calidris melanotos		
Pectoral Sandpiper [858]		Species or species habitat may occur within area overfly marine area
Fregata ariel Lesser Frigatebird, Least Frigatebird [1012]		Species or species habitat may occur within area
Macronectes giganteus Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area

Scientific Name	Threatened Category	Presence Text
Phaethon lepturus White-tailed Tropicbird [1014]		Species or species habitat may occur within area
Phaethon lepturus fulvus Christmas Island White-tailed Tropicbird, Golden Bosunbird [26021]	Endangered	Species or species habitat may occur within area
Reptile		
Aipysurus laevis Olive Seasnake [1120]		Species or species habitat may occur within area
Caretta caretta Loggerhead Turtle [1763]	Endangered	Species or species habitat likely to occur within area
Chelonia mydas Green Turtle [1765]	Vulnerable	Species or species habitat likely to occur within area
Dermochelys coriacea Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Species or species habitat likely to occur within area
Disteira kingii Spectacled Seasnake [1123]		Species or species habitat may occur within area
Eretmochelys imbricata Hawksbill Turtle [1766]	Vulnerable	Species or species habitat likely to occur within area
Natator depressus Flatback Turtle [59257]	Vulnerable	Species or species habitat likely to occur within area
Pelamis platurus Yellow-bellied Seasnake [1091]		Species or species habitat may occur within area

Whales and Other Cetaceans		[Resource Information]
Current Scientific Name	Status	Type of Presence
Mammal		

Current Scientific Name	Status	Type of Presence
Balaenoptera acutorostrata Minke Whale [33]		Species or species habitat may occur within area
Balaenoptera bonaerensis Antarctic Minke Whale, Dark-shoulder Minke Whale [67812]		Species or species habitat likely to occur within area
Balaenoptera borealis Sei Whale [34]	Vulnerable	Species or species habitat likely to occur within area
Balaenoptera edeni Bryde's Whale [35]		Species or species habitat likely to occur within area
Balaenoptera musculus Blue Whale [36]	Endangered	Species or species habitat likely to occur within area
Balaenoptera physalus Fin Whale [37]	Vulnerable	Species or species habitat likely to occur within area
Delphinus delphis Common Dolphin, Short-beaked Common Dolphin [60]		Species or species habitat may occur within area
Feresa attenuata Pygmy Killer Whale [61]		Species or species habitat may occur within area
Globicephala macrorhynchus Short-finned Pilot Whale [62]		Species or species habitat may occur within area
Grampus griseus Risso's Dolphin, Grampus [64]		Species or species habitat may occur within area
Kogia breviceps Pygmy Sperm Whale [57]		Species or species habitat may occur within area

Current Scientific Name	Status	Type of Presence
Kogia sima as Kogia simus	Otatuo	Type of Frederice
Dwarf Sperm Whale [85043]		Species or species habitat may occur within area
<u>Lagenodelphis hosei</u> Fraser's Dolphin, Sarawak Dolphin [41]		Species or species habitat may occur within area
Megaptera novaeangliae Humpback Whale [38]		Species or species habitat may occur within area
Mesoplodon densirostris Blainville's Beaked Whale, Densebeaked Whale [74]		Species or species habitat may occur within area
Orcinus orca Killer Whale, Orca [46]		Species or species habitat may occur within area
Peponocephala electra Melon-headed Whale [47]		Species or species habitat may occur within area
Physeter macrocephalus Sperm Whale [59]		Species or species habitat may occur within area
Pseudorca crassidens False Killer Whale [48]		Species or species habitat likely to occur within area
Stenella attenuata Spotted Dolphin, Pantropical Spotted Dolphin [51]		Species or species habitat may occur within area
Stenella coeruleoalba Striped Dolphin, Euphrosyne Dolphin [52]		Species or species habitat may occur within area
Stenella longirostris Long-snouted Spinner Dolphin [29]		Species or species habitat may occur within area

Current Scientific Name	Status	Type of Presence
Steno bredanensis		
Rough-toothed Dolphin [30]		Species or species habitat may occur within area
Tursiops truncatus s. str.		
Bottlenose Dolphin [68417]		Species or species habitat may occur within area
Ziphius cavirostris		
Cuvier's Beaked Whale, Goose-beaked Whale [56]	I	Species or species habitat may occur within area

Extra Information

EPBC Act Referrals			[Resource Information]
Title of referral	Reference	Referral Outcome	Assessment Status
Project Highclere Cable Lay and	2022/09203		Completed
<u>Operation</u>			•
•			
Controlled action			
Equus Gas Fields Development	2012/6301	Controlled Action	Completed
Project, Carnarvon Basin			
The Scarborough Project - FLNG &	2013/6811	Controlled Action	Post-Approval
assoc subsea infrastructure,			
<u>Carnarvon Basin</u>			
Not controlled action			
Bollinger 2D Seismic Survey 200km	2004/1868	Not Controlled	Completed
North of North West Cape WA		Action	
Hose Exploration Drilling Programme	2007/3566	Not Controlled	Completed
Hess Exploration Drilling Programme	2007/3300	Action	Completed
		Action	
Project Highclere Geophysical Survey	2021/9023	Not Controlled	Completed
1 Toject Flighciere Geophysical Garvey	2021/3023	Action	Completed
		71011011	
Not controlled action (particular manne	er)		
2D marine seismic survey	2012/6296	Not Controlled	Post-Approval
<u> </u>	20.2,020	Action (Particular	. 6617.6616161
		Manner)	
		,	
Bonaventure 3D seismic survey	2006/2514	Not Controlled	Post-Approval
		Action (Particular	
		Manner)	

Title of referral	Reference	Referral Outcome	Assessment Status
Not controlled action (particular manne	•		
CGGVERITAS 2010 2D Seismic Survey	2010/5714	Not Controlled Action (Particular Manner)	Post-Approval
Deep Water Drilling Program	2010/5532	Not Controlled Action (Particular Manner)	Post-Approval
Deep Water Northwest Shelf 2D Seismic Survey	2007/3260	Not Controlled Action (Particular Manner)	Post-Approval
Drilling 35-40 offshore exploration wells in deep water	2008/4461	Not Controlled Action (Particular Manner)	Post-Approval
Exmouth West 2D Marine Seismic Survey	2008/4132	Not Controlled Action (Particular Manner)	Post-Approval
Geco Eagle 3D Marine Seismic Survey	2008/3958	Not Controlled Action (Particular Manner)	Post-Approval
Glencoe 3D Marine Seismic Survey WA-390-P	2007/3684	Not Controlled Action (Particular Manner)	Post-Approval
Honeycombs MC3D Marine Seismic Survey	2012/6368	Not Controlled Action (Particular Manner)	Post-Approval
Lion 2D Marine Seismic Survey	2007/3777	Not Controlled Action (Particular Manner)	Post-Approval
Westralia SPAN Marine Seismic Survey, WA & NT	2012/6463	Not Controlled Action (Particular Manner)	Post-Approval

Key Ecological Features

[Resource Information]

Key Ecological Features are the parts of the marine ecosystem that are considered to be important for the biodiversity or ecosystem functioning and integrity of the Commonwealth Marine Area.

Name Region

Name	Region
Exmouth Plateau	North-west

Biologically Important Areas			
Scientific Name	Behaviour	Presence	
Whales			
Balaenoptera musculus brevicauda			
Pygmy Blue Whale [81317]	Distribution	Known to occur	

Caveat

1 PURPOSE

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

The report contains the mapped locations of:

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

2 DISCLAIMER

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

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

3 DATA SOURCES

Threatened ecological communities

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

Threatened, migratory and marine species

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

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

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

4 LIMITATIONS

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

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

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

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

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

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

Acknowledgements

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

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

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

Please feel free to provide feedback via the **Contact us** page.

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APPENDIX D OIL SPILL PREPAREDNESS AND RESPONSE MITIGATION ASSESSMENT

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Oil Spill Preparedness and Response Mitigation Assessment for the WA-61-L and WA-62-L Subsea Infrastructure Installation Environment Plan

Corporate HSE Hydrocarbon Spill Preparedness

October 2023 Revision 0a

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EXECUTIVE SUMMARY

Woodside Energy Scarborough Pty Ltd (Woodside) has developed its oil spill preparedness and response position for the WA-61-L and WA-62-L Subsea Infrastructure Installation, hereafter known as the Petroleum Activities Program (PAP).

This document demonstrates that the risks and impacts from an unplanned hydrocarbon release, and the associated response operations, are controlled to As Low as Reasonably Practicable (ALARP) and Acceptable levels. It achieves this by evaluating response options to address the potential environmental impacts resulting from an unplanned loss of hydrocarbon containment associated with the PAP described in the Environment Plan (EP). This document then outlines Woodside's decisions and techniques for responding to a hydrocarbon release event and the process for determining its level of hydrocarbon spill preparedness.

A summary of the key facts and references to additional detail within this document are presented below.

Table 0-1: Summary of the key details for assessment

Key details of assessment	Summary	Reference to additional detail
Worst Case Credible Scenario	Hydrocarbon release caused by vessel collision	Section 2.2
	Instantaneous surface release of 1000 m ³ of marine diesel ¹ .	
Hydrocarbon Properties	Under constant 5 kn wind conditions approximately 45% of the oil is predicted to evaporate within 24 hours. The majority of remaining oil on the water surface will weather at a slower rate due to being comprised of the longer-chain compounds with higher boiling points. Evaporation of the residual compounds will slow significantly, and they will then be subject to more gradual decay through biological and photochemical processes.	Section 6.8.2 of the EP Appendix A of the First Strike Plan
	Under variable wind conditions where winds are of a greater strength, more entrainment of oil into the water column is predicted (about 45% after 24 hours). A further 35% is forecast to evaporate, leaving only a small proportion of the oil floating on the water surface (<1%).	
	It is predicted only 50 m³ of product would remain after weathering from the marine diesel scenario and there is no predicted shoreline contact or accumulation.	
Modelling Results	A quantitative, stochastic assessment has been undertaken for the credible worst case spill scenario to help assess the environmental risk of a hydrocarbon spill.	Section 2.3
	A total of 100 replicate simulations were completed for the scenarios to test for trends and variations in the trajectory and weathering of the spilled oil, with an even number of replicates completed using samples of metocean data that commenced within each calendar quarter.	
	The stochastic modelling did not predict the threshold concentrations required to trigger deterministic modelling. Deterministic modelling was therefore not undertaken and stochastic modelling has been used to scale the response.	

¹ Modelling for an instantaneous surface release of 2000 m³ MDO was available at the same field location. It was originally undertaken in 2019 and reprocessed in 2021 using NOPSEMA's contemporary modelling thresholds. The largest tank of the vessel proposed for the activity is circa 1000 m³, 50% smaller than the modelled MDO volume (2000 m³). Given that spill parameters and geographic location fall within the envelope of the existing MDO modelling, it is an appropriate surrogate and therefore additional modelling was not required.

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Key details of assessment	Summary		Reference to additional detail
	Minimum time to shoreline contact (above 100 g/m²)	No contact at threshold	
	Largest volume ashore at any single Response Priority Area (RPA) (above 100 g/m²)	No contact at threshold	
	Largest total shoreline accumulation (above 100 g/m²) all shorelines	No contact at threshold	
Net Environmental Benefit Analysis	Monitor and evaluate, source control via vessel SOPEP and oiled wildlife response are all identified as potentially having a net environmental benefit (dependent on the actual spill scenario) and carried forward for further assessment.		Section 4
ALARP evaluation of selected response techniques	The evaluation of the selected response techniques shows the proposed controls reduced the risk to an ALARP and Acceptable level for the risk presented in Section 2 , without the implementation of considered additional, alternative or improved control measures.		Section 6

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1 INTRODUCTION

1.1 Overview

Woodside Energy Scarborough Pty Ltd (Woodside) has developed its oil spill preparedness and response position for the Scarborough WA-61-L and WA-62-L Subsea Infrastructure Installation, hereafter known as the PAP. This document outlines Woodside's decisions and techniques for responding to a hydrocarbon loss of containment event and the process for determining its level of hydrocarbon spill preparedness.

1.2 Purpose

This document, together with the documents listed below, meet the requirements of the *Offshore Petroleum and Greenhouse Gas Storage (Environment) Regulations 2009* (Environment Regulations) relating to hydrocarbon spill response arrangements.

- The WA-61-L and WA-62-L Subsea Infrastructure Installation Environment Plan (EP)
- Oil Pollution Emergency Arrangements (OPEA) (Australia)
- The WA-61-L and WA-62-L Subsea Infrastructure Installation Oil Pollution Emergency Plan (OPEP) including
 - First Strike Plan (FSP)
 - Relevant Operations Plans
 - Relevant Tactical Response Plans (TRPs)
 - Relevant Supporting Plans
 - Data Directory.

The purpose of this document is to demonstrate that the risks and impacts from an unplanned hydrocarbon release and the associated response operations are controlled to As Low as Reasonably Practicable (ALARP) and Acceptable levels.

1.3 Scope

This document demonstrates that the risks and impacts from an unplanned hydrocarbon release, and the associated response operations, are controlled to ALARP and Acceptable levels. It achieves this by evaluating response options to address the potential environmental risks and impacts resulting from an unplanned loss of hydrocarbon containment associated with the PAP described in the EP. This document then outlines Woodside's decisions and techniques for responding to a hydrocarbon release event and the process for determining its level of hydrocarbon spill preparedness. It should be read in conjunction with the documents listed in **Table 1-1**. The location of the PAP is shown in Figure 3-1 of the EP.

1.4 Oil spill response document overview

The documents outlined in **Table 1-1** and **Figure 1-1** are collectively used to manage the preparedness and response for a hydrocarbon release.

The Oil Pollution First Strike Plan (FSP) contains a pre-operational Net Environmental Benefit Analysis (NEBA) summary, outlining the selected response techniques for this PAP. Relevant Operational Plans to be initiated for associated response techniques are identified in the FSP and relevant forms to initiate a response are appended to the FSP.

The process to develop an Incident Action Plan (IAP) begins once the Oil Pollution FSP is underway. The IAP includes inputs from the Monitor and Evaluate (ME) operations and the operational NEBA (**Section 4**). Planning, coordination and resource management are initiated by the Incident

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Management Team (IMT). In some instances, technical specialists may be utilised to provide expert advice. The planning may also involve liaison officers from supporting government agencies.

During each operational period, field reports are continually reviewed to evaluate the effectiveness of response operations. In addition, the operational NEBA is continually reviewed and updated to ensure the response techniques implemented continue to result in a net environmental benefit (**Section 4**).

The response will continue as described in **Section 5** until the response termination criteria have been met.

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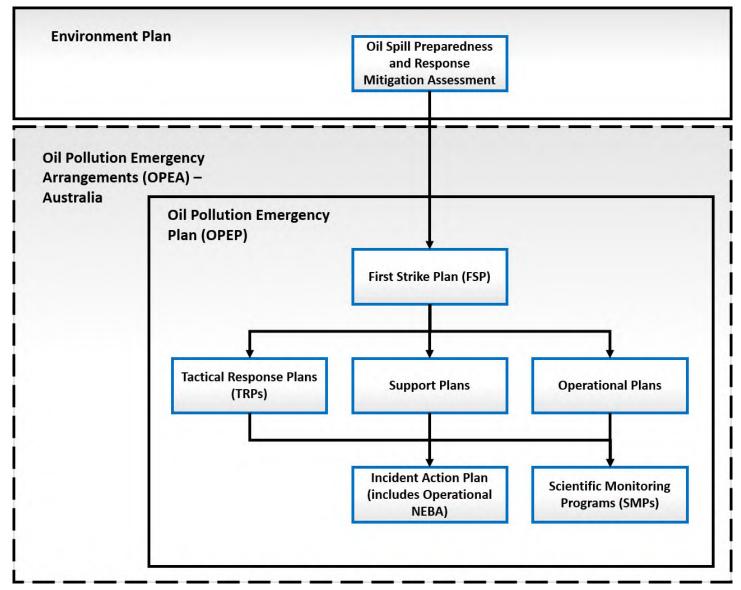


Figure 1-1: Woodside hydrocarbon spill document structure

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Table 1-1: Hydrocarbon spill preparedness and response – document references

Table 1-1. Hydrocar						
Document	Document overview	Stakeholders	Relevant information	Document name/reference		
WA-61-L and WA- 62-L Subsea Infrastructure Installation EP	Demonstrates that potential adverse impacts on the environment associated with the WA-61-L and WA-62-L Subsea Infrastructure	NOPSEMA Woodside internal	EP Section 6 (Identification and evaluation of environmental risks and impacts, including credible spill scenarios)			
	Installation (during both routine and non-routine operations) are mitigated and managed to		EP Section 6 (Performance outcomes, standards and measurement criteria)			
	ALARP and will be of an acceptable level.		EP Section 7 (Implementation strategy – including emergency preparedness and response)			
			EP Section 7 (Reporting and compliance)			
Oil Pollution	Describes the arrangements	Regulatory agencies	All			
Emergency Arrangements (OPEA) Australia	and processes adopted by Woodside when responding to a hydrocarbon spill from a petroleum activity.	Woodside internal				
Oil Spill Preparedness and Response Mitigation Assessment for the WA-61-L and WA-62-L Subsea Infrastructure Installation (this document)	Evaluates response options to address the potential environmental impacts resulting from an unplanned loss of hydrocarbon containment associated with the PAP described in the EP.	Regulatory agencies Corporate Incident Management Team (CIMT): Control function in an ongoing spill response for activity-specific response information.	All Performance outcomes, standards and measurement criteria related to hydrocarbon spill preparedness and response are included in this document.	N/A		
WA-61-L and WA- 62-L Subsea Infrastructure Installation Oil	Facility specific document providing details and tasks required to mobilise a first strike response.	Site-based IMT for initial response, activation and notification.	Initial notifications and reporting required within the first 24 hours of a spill event.			

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Document	Document overview	Stakeholders	Relevant information	Document name/reference
Pollution First Strike Plan	Primarily applied to the first 24 hours of a response until a full IAP specific to the event is developed. Oil Pollution First Strike Plans are intended to be the first document used to provide immediate guidance to the responding Incident Management Team (IMT).	CIMT for initial response, activation and notification. CIMT: Control function in an ongoing spill response for activity-specific response information.	Relevant spill response options that could be initiated for mobilisation in the event of a spill. Recommended pre-planned tactics. Details and forms for use in immediate response. Activation process for oil spill trajectory modelling, aerial surveillance and oil spill tracking buoy details.	
Operational Plans	Lists the actions required to activate, mobilise and deploy personnel and resources to commence response operations. Includes details on access to equipment and personnel (available immediately) and steps to mobilise additional resources depending on the nature and scale of a release. Relevant operational plans will be initially selected based on the Oil Pollution First Strike Plan; additional operational plans will be activated depending on the nature and scale of the release.	CIMT: Operations and Logistics Sections for first strike activities. CIMT: Planning Section to help inform the IAP on resources available.	Locations from where resources may be mobilised. How resources will be mobilised. Details of where resources may be mobilised to and what facilities are required once the resources arrive. Details on how to implement resources to undertake a response.	Operational Monitoring Plan Vessel Shipboard Oil Pollution Emergency Plan (SOPEP) Oiled Wildlife

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Document	Document overview	Stakeholders	Relevant information	Document name/reference						
Tactical Response	Provides options for response CIMT: Planning Indicative response techniques.		Indicative response techniques.	For full list of relevant Tactical						
Plans	techniques in selected RPAs. Provides site, access and deployment information to	Section to help develop IAPs, and Logistics Section to	Access requirements and/or permissions.	Plans, refer to ANNEX E: Tactical Response Plans.						
	support a response at the location.	assist with determining resources required.	Relevant information for undertaking a response at that site.							
			Where applicable, may include equipment deployment locations and site layouts.							
Support Plans	Support Plans detail	CIMT: Operations,	Technique for mobilising and	Marine						
	Woodside's approach to resourcing and the provision of services during a hydrocarbon spill response.	Logistics and Planning	managing additional resources	Logistics						
			outside of Woodside's immediate preparedness arrangements.	People & Global Capability Surge Labour Requirement Plan						
	Spili response.			i						
				Aviation						
				IT Response Plan						
				Communications Response Plan						
				Stakeholder Engagement						
				Accommodation & Catering						
			Waste Management							
				Guidance for Oil Spill Claims Management						
				Security Support Plan						
				Hydrocarbon Spill Responder Health Monitoring Guideline						

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2 RESPONSE PLANNING PROCESS

This document details Woodside's process for identifying potential response options for the hydrocarbon release scenarios, identified in the EP. **Figure 2-1** outlines the interaction between Woodside's response, planning/preparedness and selection process.

This structure has been used because it shows how the planning and preparedness activities inform a response and provides indicative guidance on what activities would be undertaken, in sequential order, if a real event were to occur. The process also evaluates alternative, additional and/or improved control measures specific to the PAP.

The WA-61-L and WA-62-L Subsea Infrastructure Installation First Strike Plan then summarises the outcome of the response planning process and provides initial response guidance and a summary of ongoing response activities, if an incident were to occur.

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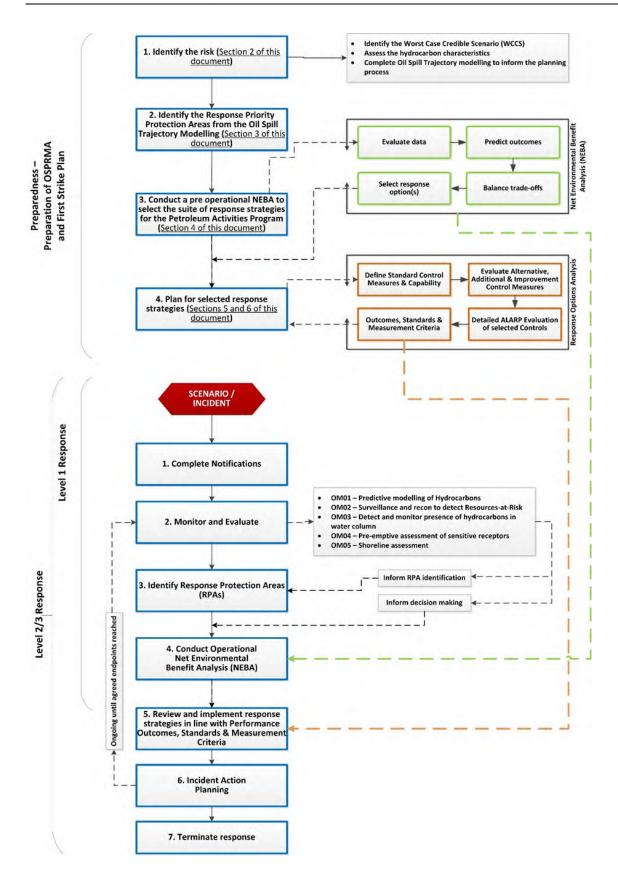


Figure 2-1: Response planning and selection process

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2.1 Response planning process outline

This document is expanded below to provide additional context on the key steps in determining capability, evaluating ALARP and hydrocarbon spill response requirements.

Section 1. INTRODUCTION

Section 2. RESPONSE PLANNING PROCESS

- identification of worst-case credible scenario(s) (WCCS)
- spill modelling for WCCS.

Section 3. IDENTIFY RESPONSE PROTECTION AREAS (RPAs)

areas predicted to be contacted at concentration >100g/m².

Section 4. NET ENVIRONMENTAL BENEFIT ANALYSIS (NEBA)

- pre-operational NEBA (during planning/ALARP evaluation): this must be reviewed during the initial response to an incident to ensure its accuracy
- selected response techniques prioritised and carried forward for ALARP assessment.

Section 5. HYDROCARBON SPILL ALARP PROCESS

- determines the response need based on predicted consequence parameters.
- details the environmental performance of the selected response options based on need.
- sets the environmental performance outcomes, environmental performance standards and measurement criteria.

Section 6. ALARP EVALUATION

- evaluates alternative, additional, and improved options for each response technique to demonstrate the risk has been reduced to ALARP.
- provides a detailed ALARP assessment of selected control measure options against:
 - predicted cost associated with implementing the option
 - predicted change to environmental benefit
 - predicted effectiveness / feasibility of the control measure.

Section 7. ENVIRONMENTAL RISK ASSESSMENT OF SELECTED RESPONSE TECHNIQUES

 evaluation of impacts and risks from implementing selected response options.

Section 8. ALARP CONCLUSION

Section 9. ACCEPTABILITY CONCLUSION

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2.1.1 Response Planning Assumptions

For the purpose of defining terms related to response planning and timing, the following definitions have been developed.

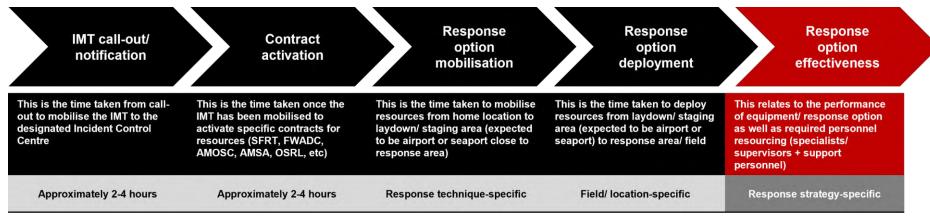


Figure 2-2: Response Planning Assumption - Timing, Resourcing and Effectiveness

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2.2 Environment plan risk assessment (credible spill scenarios)

Potential hydrocarbon release scenarios from the PAP have been identified during the risk assessment process (Section 6 of the EP). Further descriptions of risk, impacts and mitigation measures (which are not related to hydrocarbon preparedness and response) are provided in Section 6 of the EP. Three unplanned events or credible spill scenarios for the PAP have been selected as representative across types, sources and incident/response levels, up to and including the WCCS.

Table 2-1 presents the credible scenarios for the PAP. The WCCS for the activity is then used for response planning purposes, as all other scenarios are of a lesser scale and extent. By demonstrating capability to manage the response to the WCCS, Woodside assumes other scenarios that are smaller in nature and scale can also be managed by the same capability. Response performance measures have been defined based on a response to the WCCS.

The surface release of marine diesel caused by vessel collision (Credible Scenario-01; CS-01) has been modelled and considered for response planning purposes. Credible Scenario-02 (CS-02) and Credible Scenario-03 (CS-03) have significantly smaller marine diesel release volumes and are considered to be within the risk profile and spill response capability requirements of CS-01.

CS-01 is therefore selected for response planning purposes.

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Table 2-1: Petroleum Activities Program credible spill scenarios

Credible Spill Scenarios	Scenario selected for planning purposes	Scenario description	Maximum credible volume released (liquid m³) ¹	Incident Level	Hydrocarbon (HC) type	Residual proportion	Residual volume (liquid m³)
Credible Scenario-01 (Worst Case)	Yes	Hydrocarbon release due to vessel collision	Instantaneous release of 1000 m ³ marine diesel ²	2	Marine diesel	5%	50 m ³
Credible Scenario-02	No	Hydrocarbon release due to vessel collision	Instantaneous release of 250 m ³ marine diesel	2	Marine diesel	5%	12.5 m ³
Credible Scenario-03	No	Marine Fuel Loss during bunkering	Instantaneous release of 55 m³ marine diesel	1	Marine diesel	5%	0.4 m ³

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² Modelling for an instantaneous surface release of 2000 m³ MDO was available at the same field location. It was originally undertaken in 2019 and reprocessed in 2021 using NOPSEMA's contemporary modelling thresholds. The largest tank of the vessel proposed for the activity is circa 1000 m³, 50% smaller than the modelled MDO volume (2000 m³). Given that spill parameters and geographic location fall within the envelope of the existing MDO modelling, it is an appropriate surrogate and therefore additional modelling was not required.

2.2.1 Hydrocarbon characteristics

Hydrocarbon characteristics, including modelled weathering data and ecotoxicity, are included in Section 6 of the EP.

Marine Diesel

Marine Diesel Oil is typically classed as an International Tanker Owners Federation (ITOPF) Group I/II oil.

Marine diesel is a mixture of volatile and persistent hydrocarbons with low proportions of highly volatile and residual components. Under constant 5 kn wind conditions, approximately 45% of the oil is predicted to evaporate within 24 hours. Under these calm conditions the majority of the remaining oil on the water surface will weather at a slower rate due to being comprised of the longer-chain compounds with higher boiling points. Evaporation of the residual compounds will slow significantly, and they will then be subject to more gradual decay through biological and photochemical processes. Under variable wind conditions where winds are of a greater strength, more entrainment of oil into the water column is predicted (about 45% after 24 hours). A further 35% is forecast to evaporate, leaving only a small proportion of the oil floating on the water surface (<1%).

The heavier (low volatility) components of the oil have a tendency to entrain into the upper water column due to wind-generated waves but can subsequently resurface if wind-waves abate. Therefore, the heavier components of this oil can remain entrained or on the sea surface for an extended period, with associated potential for dissolution of the soluble aromatic fraction. It is predicted only 50 m³ of product would remain after weathering from the marine diesel scenario and there is no predicted shoreline contact or accumulation.

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2.3 Hydrocarbon spill modelling

Oil spill trajectory modelling tools are used for environmental impact assessment and during response planning to understand spatial scale and timeframes for response operations. Woodside recognises that there is a degree of uncertainty related to the use of modelling data and has subsequently utilised conservative approaches to volumes, weathering, spatial areas, timing and response effectiveness to scale capability to need.

The Oil Spill Model and Response System (OILMAP) and Integrated Oil Spill Impact Model System (SIMAP) models are used for stochastic modelling. They have been developed over three decades of planning, exercises, actual responses, several peer reviews, and validation studies. OILMAP was originally derived from the United States Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Type A model (French et al. 1996), for assessing marine transport, biological impact and economic impact that was also used under the United States Oil Pollution Act 1990 Natural Resource Damage Assessment (NRDA) regulations. Notable spills where the model has been used and validated against actual field observations include, Exxon Valdez (French McCay 2004), North Cape Oil Spill (French McCay 2003), along with an assessment of 20 other spills (French McCay and Rowe, 2004). In addition, test spills designed to verify fate, weathering and movement algorithms have been conducted regularly and in a range of climate conditions (French and Rines 1997; French et al. 1997; Payne et al. 2007s, 2007b; French McCay et al. 2007).

Further to this, the algorithms have been updated using the latest findings from the Macondo/Deepwater Horizon well blowout in the Gulf of Mexico and validated according to the Deepwater Horizon (DWH) oil spill in support of the Natural Resource Damage Assessment (NRDA) (Spaulding et al. 2015; French McCay et al. 2015, 2016). Finally, the OILMAP and SIMAP models have been used extensively in Australia to prosecute pollution offences, predict discharge locations and likely spill volumes based on weathering and surveillance observations, and has been used as expert witness evidence in Australian court proceedings, aiding the prosecution to determine spill quantum estimates.

2.3.1 Stochastic modelling

Stochastic modelling of a 2000 m³ surface release of marine diesel was available for Woodside's Scarborough Project, conducted in 2019 for the scenario outlined in **Table 2-1**. The release location used for the spill modelling is within the Operational Area (19° 53′ 54.72″ S, 113° 14′ 19.56″ E). The modelled spill volume of 2000 m³ is more than fifty percent greater than the worst-case credible release volume of 1000 m³ for this EP. However, the results of the modelling can be used to demonstrate that a much larger marine diesel spill in the vicinity of the Operational Area has an Environment that May Be Affect (EMBA) that is not predicted to include any surface slicks above threshold volumes entering WA state waters, or any shoreline contact or accumulation. Basing the impact assessment for a vessel collision scenario on this modelling is considered highly conservative and consequently, the EMBA for a 1000 m³ surface release of marine diesel within the Operational Area would be considerably smaller than the EMBA described in this EP.

A quantitative, stochastic assessment has been undertaken for the credible spill scenario to help assess the environmental consequences of a hydrocarbon spill.

A total of 100 replicate simulations were completed for the scenario to test for trends and variations in the trajectory and weathering of the spilled oil over an annual period, with an even number of replicates completed using samples of metocean data that commenced within each month. Further details relating to the assessments for the scenario can be found in Section 6 of the EP.

2.3.1.1 Environmental impact thresholds – EMBA and hydrocarbon exposure

The outputs of the stochastic spill modelling are used to assess the potential environmental impact from the credible scenarios. The stochastic modelling results are used to delineate areas of the marine and shoreline environment that could be exposed to hydrocarbon levels exceeding environmental impact threshold concentrations. The summary of all the locations where hydrocarbon thresholds could be exceeded by any of the simulations modelled is defined as Environment that

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May Be Affected (EMBA) and is discussed further in Section 4 of the EP. As the weathering of different fates of hydrocarbons (surface, entrained and dissolved) differs due to the influence of the metocean mechanism of transportation, a different EMBA is presented for each fate within the EP.

A conservative approach – adopting accepted contact thresholds for impacts on the marine environment – is used to define the EMBA. These hydrocarbon thresholds are presented in **Table 2-2** below and described in Section 6 of the EP.

Table 2-2: Summary of thresholds applied to the stochastic hydrocarbon spill modelling of marine diesel to determine the EMBA and environmental impacts

Threshold (marine diesel)	Description	
10 g/m²	Surface hydrocarbon	
100 ppb	Entrained hydrocarbon (ppb)	
50 ppb	Dissolved aromatic hydrocarbon (ppb)	
100 g/m²	Shoreline accumulation	

2.3.2 Deterministic Modelling

Deterministic modelling is undertaken where initial stochastic modelling has indicated that floating oil is present at an impact threshold of 50 g/m² and/or where there is shoreline accumulations at an impact threshold of 100 g/m². The deterministic modelling outputs are then used to scale the required capability for the offshore (containment and recovery and dispersant) and/or shoreline responses.

The selected stochastic modelling used as a representative of the WCCS for this PAP did not predict the threshold concentrations required to trigger the undertaking of deterministic modelling. Deterministic modelling was therefore not undertaken for CS-01 and stochastic modelling has been used to scale the response.

2.3.3 Response Planning Thresholds for Surface and Shoreline Hydrocarbon Exposure

Thresholds to determine the EMBA are used to predict and assess environmental impacts and inform the SMP, however they do not appropriately represent the thresholds at which an effective response can be implemented. Additional response thresholds are used for response planning and to determine areas where response techniques would be most effective. The spill modelling results are then used to assess the nature and scale of a response.

In the event of an actual response, existing modelling would be reviewed for suitability and additional modelling would be conducted using real-time data and field information to inform Incident Management Team decisions.

The spill modelling outputs are presented at response planning thresholds for surface hydrocarbons for the WCCS. Surface spill concentrations are expressed as grams per square metre (g/m²) (**Section 2.2**). The thresholds used are derived from oil spill response planning literature and industry guidance and are summarised below.

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2.3.4 Surface Hydrocarbon Concentrations

Table 2-3: Surface hydrocarbon thresholds for response planning

Surface hydrocarbon concentration (g/m²)	Description	Bonn Agreement Oil Appearance Code (BAOAC)	Mass per area (g/m²)
>10	Predicted minimum threshold for commencing operational monitoring ³	Code 3 – Dull metallic colours	5 - 50
50	Predicted minimum floating oil threshold for containment and recovery and surface dispersant application ⁴	Code 4 – Discontinuous true oil colour	50 - 200
100	Predicted optimum floating oil threshold for containment and recovery and surface dispersant application	Code 5 – Continuous true oil colour	>200
Shoreline hydrocarbon concentration (g/m²)	Description	National Plan Guidance on Oil Contaminated Foreshores	Mass per area (g/m²)
100	Predicted minimum shoreline accumulation threshold for shoreline assessment operations	Stain	>100
250	Predicted minimum threshold for commencing shoreline clean-up operations	Level 3 - Thin Coating	200 - 1000

The surface thickness of oil at which dispersants are typically effective is approximately 100 g/m². However, substantial variations occur in the thickness of the oil within the slick. Additionally, the recommended rate of application for surface dispersant is typically 1-part dispersant to 20 or 25 parts of spilled oil. These figures assume a 0.1 mm slick thickness, averaged over the thickest part of the spill, to calculate a litres/hectare application rate from vessels and aircraft. In practice, this can be difficult to achieve as it is not possible to accurately assess the thickness of the floating oil.

Some degree of localised over-dosage and under-dosage is inevitable in dispersant response. An average oil layer thickness of 0.1 mm is often assumed, although the actual thickness can vary over a wide range (from less than 0.0001 mm to more than 1 mm) over short distances (International Petroleum Industry Environment Conservation Association [IPIECA] 2015).

Guidance from AMSA (AMSA, 2015) indicates that spreading of spills of Group II or III products will rapidly decrease slick thickness over the first 24 hours of a spill resulting in the potential requirement of up to a ten (10) fold increase in capability on day 2 to achieve the same level of performance.

Further guidance from the European Maritime Safety Authority (EMSA) states that spraying the 'metallic' looking area of an oil slick (Bonn Agreement Oil Appearance Code [BAOAC] 3, approx. 5 - 50 μ m) with dispersant from spraying gear designed to treat an oil layer 0.1 mm (100 μ m) thick, will inevitably cause dispersant over-treatment by a factor of 2 to 20 times (EMSA 2012).

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³ Operational monitoring will be undertaken from the outset of a spill whether or not this threshold has been reached. Monitoring is needed throughout the response to assess the nature of the spill, track its location and inform the need for any additional monitoring and/or response techniques. It also informs when the spill has entered State Waters and control of the incident passes to Western Australia Department of Transport (WA DoT).

⁴ At 50 g/m², containment and recovery and surface dispersant application operations are not expected to be particularly effective. This threshold represents a conservative approach to planning response capability and containing the spread of surface oil.

Therefore, dispersant application should be concentrated on the thickest areas of an oil slick and Woodside intends on applying surface dispersants to only BAOAC 4 and 5. Spraying areas of oil designated as BAOAC Code 4 (Discontinuous true oil colour) with dispersant will, on average, deliver approximately the recommended treatment rate of dispersant.

Spraying areas of oil designated as BAOAC Code 5 with dispersant (Continuous true oil colour and more than 0.2 mm thick) will, on average, deliver approximately half the recommended treatment rate of dispersant. Repeated application of these areas of thicker oil, or increased dosage ratios, will be required to achieve the recommended treatment rate of dispersant (EMSA 2012).

Guidance from the National Oceanic and Atmospheric Administration (NOAA) in the United States is found in the document: *Characteristics of Response Techniques: A Guide for Spill Response Planning in Marine Environments 2013 (NOAA 2013).* This guide outlines advice for response planning across all common techniques, including surface dispersant spraying and containment and recovery. It states that oil thickness can vary by orders of magnitude within distinct areas of a slick, thus the actual slick thickness and oil distribution of target areas are crucial for determining response method feasibility. Further to this, ITOPF also states that in terms of oil spill response, sheen can be disregarded as it represents a negligible quantity of oil, cannot be recovered or otherwise dealt with to a significant degree by existing response techniques, and is likely to dissipate readily and naturally (ITOPF, 2014).

Figure 2-3 below from AMSA's Identification of Oil on Water – Aerial Observation and Identification Guide (AMSA, 2014) shows expected percent coverage of surface hydrocarbons as a proportion of total surface area. Wind-rows, heavy oil patches and tar balls, for example, must be considered, as they influence oil encounter rates, chemical dosages and ignition potential. Each method has different thickness thresholds for effective response.

From this information and other relevant sources (Allen and Dale, 1996, EMSA, 2012, Spence, 2018) the surface threshold of 50g/m² was chosen as an average / equilibrium thickness (50g/m² is an average is 50% coverage of 0.1mm Bonn Agreement Code 4 - discontinuous true oil colour, or 25% coverage of 0.2mm Bonn Agreement Code 5 – continuous true oil colour which would represent small patches of thick oil or wind-rows).

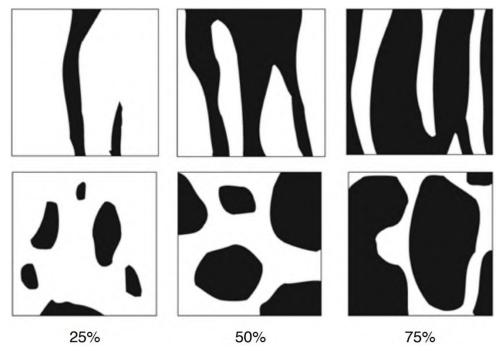


Figure 2-3: Proportion of total area coverage (AMSA, 2014)

Figure 2-4 illustrates the general relationships between on-water response techniques and slick thickness. Wind-rows, heavy oil patches and tar balls, for example, must be considered, as they

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influence oil encounter rates, chemical dosages and ignition potential. Each method has different thickness thresholds for effective response.

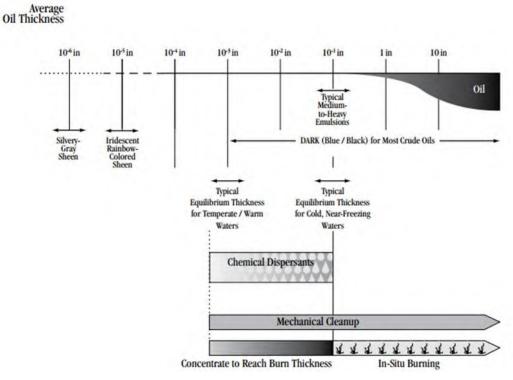


Figure 2-4: Oil thickness versus potential response options (from Allen and Dale 1996)

Wind and waves influence the feasibility of mechanical clean-up operations, dropping the effectiveness significantly because of entrainment and/or splash-over as short period waves develop beyond two to three feet (0.6–0.9m) in height. Waves and wind can also be limiting factors for the safe operation of vessels and aircraft. There is also potential secondary contamination of unimpacted areas and waste issues associated with mechanical dispersion of slicks (**Table 4-2 and Section 4.2.3.3**).

2.3.5 Surface Hydrocarbon Viscosity

Table 2-4: Surface hydrocarbon viscosity thresholds

Surface viscosity (cSt)	Description	European Maritime Safety Authority (EMSA)	Viscosity at sea temperature (cSt)
5,000	Predicted optimum viscosity for surface dispersant operations	Generally possible to disperse	500-5000
15,000	Predicted maximum viscosity for effective surface dispersant operations	Sometimes possible to disperse	5,000-15,000

Further to the required thickness for surface dispersant application and containment and recovery to be deployed effectively as outlined above, changes to viscosity will also limit the treatment of offshore response techniques. As outlined in the EMSA Manual on the Applicability of Oil Spill Dispersants (EMSA, 2012), guidance around changes to viscosity and likely effectiveness of surface dispersant application is provided.

This includes the following statements: "It has been known for many years that it is more difficult to disperse a high viscosity oil than a low or medium viscosity oil. Laboratory testing had shown that the effectiveness of dispersants is related to oil viscosity, being highest for modern "Concentrate, UK Type 2/3" dispersants at an oil viscosity of about 1,000 or 2,000 mPa.s (1,000 – 2,000 cSt) and then declining to a low level with an oil viscosity of 15,000 mPa.s (15,000 cSt). It was considered

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that some generally applicable viscosity limit, such as 2,000 or 5,000 mPa.s (2,000 - 5,000 cSt), could be applied to all oils."

However, modern oil spill dispersants are generally effective up to an oil viscosity of 5,000 mPa.s (5,000 cSt) or more, and their performance gradually decreases with increasing viscosity; oils with a viscosity of more than 15,000 are, in most cases, no longer dispersible. Guidance from CEDRE (EMSA, 2012) also indicates that products with a range of 500 - 5,000 cSt at sea temperature are generally possible to disperse, while 5,000 - 15,000 cSt at sea temperature above pour point are sometimes possible to disperse, with products beyond 15,000 cSt at sea temperature below pour point are generally impossible to disperse. The potential use of dispersants is evaluated in **Table 4-2**.

To support decision making and response planning, a threshold of 15,000 cSt at sea temperature was chosen as a conservative estimate of maximum viscosity for surface dispersant spraying operations.

The thresholds described above are compared with the modelling results for the WCCS (**Table 2-5**).

2.3.6 Spill modelling results

Details of the scenario and modelling inputs are included along with results in Table 2-5.

The selected results used to represent the WCCS are based on response thresholds:

- Minimum time to commencement of hydrocarbon accumulation at any shoreline receptor (at a threshold of 100 g/m²).
- Minimum time to floating hydrocarbon contact with the offshore edge(s) of any shoreline receptor polygon (at a threshold of 10 g/m²).
- Maximum cumulative hydrocarbon volume accumulated at any individual shoreline receptor.
- Maximum cumulative hydrocarbon volume accumulated across all shoreline receptors contacted by accumulated hydrocarbons (including those contacted at <100 g/m² accumulation concentration).
- Minimum time to entrained/dissolved hydrocarbon contact with the offshore edges of any receptor polygon (at a threshold of 100 ppb/50 ppb).

The volumes as presented in **Table 2-5** are the worst case volumes resulting from the selected stochastic modelling and have been used to determine appropriate level of response.

As noted, the modelled volume selected (2000 m³) is nearly double the volume of the PAP diesel scenario volume (1000 m³) and thus it is concluded that thresholds would be unlikely to be met for the actual scenario for this PAP.

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Table 2-5: Worst case credible scenario modelling results

	Modelled result		
Response parameter	Marine diesel release caused by vessel collision		
Maximum instantaneous liquid hydrocarbon release rate and duration	Instantaneous surface release of 1000 m ³ marine diesel.		
Maximum residual surface hydrocarbon after weathering	50 m ³		
Modelling res	sults		
Minimum time to commencement of hydrocarbon accumulation at any shoreline receptor (at a threshold of 100 g/m²)	No contact at threshold		
Minimum time to floating hydrocarbon contact with the offshore edge(s) of any shoreline receptor polygon (at a threshold of 10 g/m²)	64 hours at Gascoyne AMP		
Maximum cumulative hydrocarbon volume accumulated at any individual shoreline receptor	No contact at threshold		
Maximum cumulative hydrocarbon volume accumulated across all shoreline receptors contacted by accumulated hydrocarbons (including those contacted at <100 g/m² accumulation concentration)	No contact at threshold		
Minimum time to entrained/dissolved hydrocarbon contact with the offshore edges of any receptor polygon (at a threshold of 100 ppb/50 ppb)	61 hours at Gascoyne AMP		

The stochastic modelling results for the WCCS have been used as the basis for response planning and are included in **Section 4.2.**

The stochastic modelling results for Credible Scenario-01 are summarized as follows:

- Surface hydrocarbon concentrations greater than 10 g/m² may occur up to 113 km from the release location.
- Floating oil at the 10 g/m² threshold is predicted to arrive at the surface waters of the Gascoyne AMP receptor with a probability of 1% after 64 hours.
- No shoreline receptors are predicted to be contacted by floating oil concentrations at any of the assessed thresholds.
- No accumulation of oil on shorelines is predicted.
- The Gascoyne AMP is predicted to receive entrained oil concentrations at the 100 ppb threshold with a probability of 10% after 61 hours.
- Spreading and weathering of the surface oil occurs rapidly due to the loss of light, volatile
 components and the spreading. Dispersant application and containment and recovery are not
 appropriate for use on spills of marine diesel due to these weathering characteristics.

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3 IDENTIFY RESPONSE PROTECTION AREAS (RPAs)

In a response, operational monitoring programs – including trajectory modelling and vessel/aerial observations – would be used to predict RPAs that may be impacted. For the purposes of planning and appropriately scaling a response, modelling has been used to identify RPAs as outlined below in **Figure 3-1**.

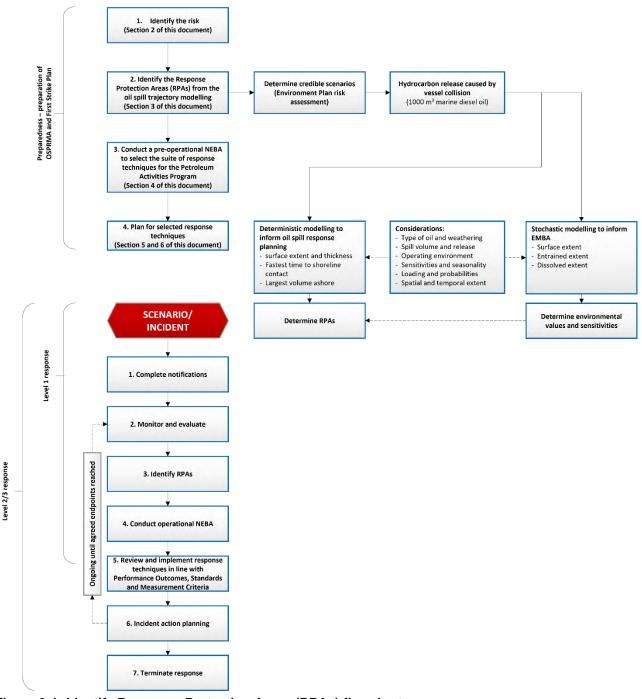


Figure 3-1: Identify Response Protection Areas (RPAs) flowchart

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3.1 Identified sensitive receptor locations

Section 6 of the EP includes the list of sensitive receptor locations that have been identified by stochastic modelling as meeting the requirements outlined below:

- receptors with the potential to incur surface, entrained or shoreline accumulation contact above environmental impact thresholds
- · receptors within the EMBA which meet the following:
 - a number of priority protection criteria/categories
 - International Union of Conservation of Nature IUCN marine protected area categories
 - high conservation value habitat and species
 - important socio-economic/heritage value.

3.2 Identify Response Protection Areas (RPAs)

From the identified sensitive receptors described in Section 6 of the EP, only those which a shoreline response could feasibly be conducted (accumulation > 100 g/m² for shoreline assessment and/or contact with surface slicks >10 g/m² for operational monitoring⁵) have been selected for response planning purposes.

3.2.1 Response Protection Areas (RPAs)

RPAs are selected on the basis of their environmental ecological, social, economic, cultural and heritage values and sensitivities and the ability to conduct a response based on the minimum response thresholds (**Section 2.3.3**). The Gascoyne AMP is the only RPA identified as the WCCS is predicted by modelling to be limited to offshore open waters. Contact from floating hydrocarbons above 10 g/m² is predicted to arrive at the surface waters of the Gascoyne AMP with a probability of 1% after 64 hours based on the stochastic modelling selected for this PAP. The Gascoyne AMP is predicted to receive entrained oil concentrations at the 100 ppb threshold with a probability of 10% after 61 hours. The maximum entrained oil concentration is forecast as 7.2 ppm within the Gascoyne AMP.

No shoreline receptors are predicted to be contacted by floating oil concentrations at any of the assessed thresholds. Additionally, modelling shows there is no accumulation of oil on shorelines is predicted.

During a spill event, operational monitoring techniques (OM01, OM02, OM03, OM04 and OM05) would be deployed from the outset of the spill to track the spill trajectory and deduce if any RPAs are at risk of impact. TRPs will be drafted in advance for any RPAs with a contact time of <14 days.

Any additional sensitive receptors are presented in the existing environment description (Section 4 of the EP) and impact assessment section (Section 6 of the EP) for the spill scenario. The preoperational NEBA (**Section 4**) considers the results from the stochastic modelling to ensure all feasible response techniques are considered in the planning phase, therefore additional receptors are also included in the pre-operational NEBA.

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⁵ Operational monitoring will be undertaken from the outset of a spill whether or not this threshold has been reached. Monitoring is needed throughout the response to assess the nature of the spill, track its location and inform the need for any additional monitoring and/or response techniques. It also informs when the spill has entered State Waters and/or control of the incident passes to statutory authorities e.g. WA DoT or AMSA.

4 NET ENVIRONMENTAL BENEFIT ANALYSIS (NEBA)

A Net Environmental Benefit Analysis (NEBA) is a structured process to consider which response techniques are likely to provide the greatest net environmental benefit.

The NEBA process typically involves four key steps outlined in **Figure 4-1**: evaluate data, predict outcomes, balance trade-offs, and select response options. These steps are followed in the planning/preparedness process and would also be followed in a response.

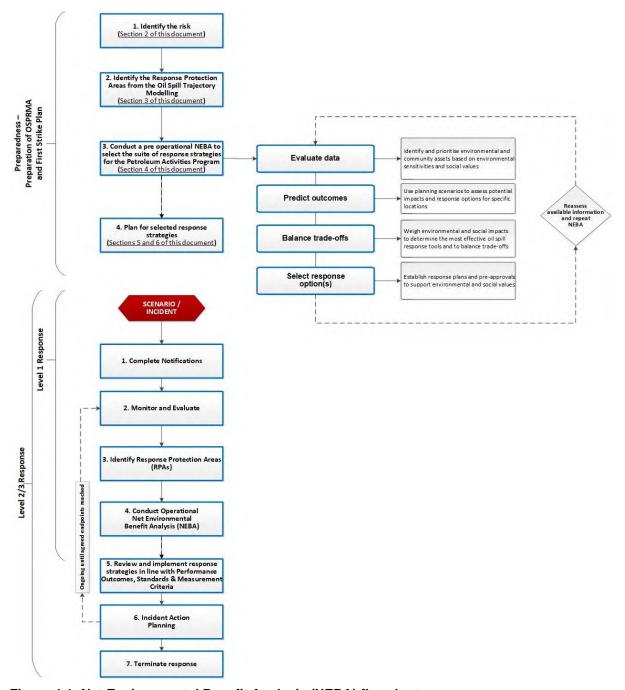


Figure 4-1: Net Environmental Benefit Analysis (NEBA) flowchart

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4.1 Pre-operational / Strategic NEBA

The pre-operational NEBA identifies positive and negative impacts to sensitive receptors from implementing the response techniques. Feasibility is considered by assessing the receptors potentially impacted above response thresholds (**Section 2.3.1.1**) and the surface concentrations from the modelling.

Completing a pre-operational NEBA is a key response planning control that reduces the environmental risks and impacts of implementing the selected response techniques. Comprehensive details of the pre-operational NEBA for this PAP are contained in **ANNEX A**: Net Environmental Benefit Analysis detailed outcomes.

4.2 Stage 1: Evaluate data

Woodside identifies and prioritises environmental and community assets based on environmental sensitivities and social values, informed through the use of trajectory modelling. Interpretation of stochastic oil spill modelling determines the EMBA for the release, which defines the spatial area that may be potentially impacted by the PAP activities.

4.2.1 Define the scenario(s)

Woodside uses scenarios identified from the risk assessment in the EP to assess potential impacts and response options for specific locations. Modelling of the WCCS is then used for this pre-operational NEBA. Outlier locations with potential environmental impacts, selected from the stochastic modelling may also be included for assessment. Response thresholds and modelling results are then used to assess the feasibility/effectiveness and scale of the response.

Table 4-1: Scenario summary information (WCCS)

Scenario summary information (WCCS- Credible scenario-01)				
Scenario	Hydrocarbon release caused by marine vessel collision			
Location	9° 53' 54.72" S, 113° 14' 19.56" E			
Oil Type	Marine diesel			
Volume and duration of release	Instantaneous release of 1000 m ³			

4.2.1.1 Hydrocarbon characteristics

Marine Diesel

Marine Diesel is typically classed as an International Tanker Owners Pollution Federation (ITOPF) Group I/II oil.

Marine diesel is a mixture of volatile and persistent hydrocarbons with low proportions of highly volatile and residual components. Under constant 5 kn wind conditions, about 6% of the oil mass is predicted to evaporate within the first 12 hours (BP < 180 °C); a further 35% should evaporate within the first 24 hours (180 °C < BP < 265 °C); and a further 54% should evaporate over several days (265 °C < BP < 380 °C). Approximately 5% of the oil is shown to be persistent. The aromatic content of the oil is approximately 3%. Under variable wind conditions where winds are of a greater strength, more entrainment of oil into the water column is predicted (about 45% after 24 hours). A further 35% is forecast to evaporate, leaving only a small proportion of the oil floating on the water surface (<1%).

The heavier (low volatility) components of the oil have a tendency to entrain into the upper water column due to wind-generated waves but can subsequently resurface if wind-waves abate. Therefore, the heavier components of this oil can remain entrained or on the sea surface for an extended period, with associated potential for dissolution of the soluble aromatic fraction.

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Stochastic modelling results for WCCS Credible Scenario-01				
Minimum time to shoreline contact (above 100 g/m²)	No contact at threshold			
Largest volume ashore at any single RPA (above 100 g/m²)	No contact at threshold			
Largest total shoreline accumulation (above 100g/m²)	No contact at threshold			

4.2.2 Determining potential response options

The available response techniques based on current technology can be summarised under the following headings:

- Monitor and evaluate (including operational monitoring)
- Source control
 - vessel source control
 - remotely operated vehicle (ROV) intervention
 - debris clearance and/or removal
 - capping stack
 - containment dome
 - relief well drilling
- Surface dispersant application:
 - aerial dispersant application
 - vessel dispersant application
- Containment and recovery
- Mechanical dispersion
- In-situ burning
- Shoreline protection and deflection
- Shoreline clean-up:
 - Phase 1 Mechanical clean-up
 - Phase 2 Manual clean-up
 - Phase 3 Final polishing
- Oiled wildlife response (including hazing)
- Waste management
- Post spill monitoring/scientific monitoring

An assessment of which response options are feasible for the scenarios is included below in **Table 4-2.** These options are evaluated against each scenario's parameters including oil type, volume and characteristics, prevailing weather conditions, logistical support, and resource availability to determine their deployment feasibility.

A shortlist of the feasible response options is then carried forward for the ALARP assessment with a justification for the exclusion of other response techniques included in **Section 4.2.3**. This assessment will typically result in a range of available options, that are deployed at different areas (at-source, offshore, nearshore and onshore) and times through the response. The NEBA process assists in prioritising which options to use where and when and timings throughout the response.

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Table 4-2: Response technique evaluation – Surface Release

Response Technique	Effectiveness	Feasibility	Decision	Rationale for the decision			
Hydrocarbon: Marine I	Hydrocarbon: Marine Diesel						
Monitor and Evaluate	 Will be effective in tracking the location of the spill, predicting potential impacts and triggering further monitoring and response techniques as required. Monitoring techniques include: OM01 Predictive modelling of hydrocarbons – used throughout spill. 'Ground-truthed' using the outputs of all other monitoring techniques. OM02 Surveillance and reconnaissance to detect hydrocarbons and resources at risk – from outset of spill. OM03 Monitoring of hydrocarbon presence, properties, behaviour and weathering in water – from outset of spill. OM04 Pre-emptive assessment of sensitive receptors at risk – triggered once OM01, OM02 and OM03 inform likely RPAs at risk. OM05 Shoreline assessment – once OM02, OM03 and OM04 inform which RPAs have been impacted. 	Monitoring of a Marine Diesel spill is a feasible response technique and outputs will be used to guide decision making on the use of other monitoring/response techniques and providing information to regulatory agencies including AMSA and WA DoT.	Yes	Monitoring the spill will be necessary to: Validate trajectory and weathering models Determine the behaviour of the oil in water Determine the location and weathering condition of the slick Provide forecasts of spill trajectory Determine appropriate response techniques Determine effectiveness of response techniques Confirm impact pathways to receptors			
Source Control (vessel)	Controlling the spill of diesel at source would be the most effective way to limit the quantity of hydrocarbon entering the marine environment.	A spill of diesel from a vessel collision will be instantaneous and source control will be limited to what the vessel can achieve whilst responding to the incident.	Yes	Ability to stop the spill at source will be dependent upon the specific spill circumstances and whether or not it is safe for response personnel to access/isolate the source of the spill.			
Surface Dispersant Application	Dispersants are not considered effective when applied on thin surface films such as marine diesel as the dispersant droplets tend to pass through the surface films without binding to the hydrocarbon.	Marine diesel is prone to rapid spreading and evaporation thus the use of dispersant would be deemed an unnecessary response technique.	No	The application of dispersant to marine diesel is unnecessary as the diesel will rapidly evaporate and would thus unnecessarily introduce additional chemical substances to the marine environment. The additional entrainment would also increase exposure of subsea species and habitats to hydrocarbons.			
Containment and Recovery	Containment and recovery has an effective recovery rate of 5-10% when a hydrocarbon encounter rate of 25-50% is achieved at BAOAC 4 and 5. Containment and recovery requires a spill to be BAOAC 4 or 5 with a 50-100% coverage of 100 g/m² to 200 g/m².	Marine diesel is prone to rapid spreading and evaporation thus reducing the feasibility of containment and recovery as a response technique.	No	Containment and recovery would be an inappropriate response technique as the coverage requirements would not be achieved by a marine diesel spill. In addition, most of the spilled diesel would have been subject to rapid evaporation and entrainment prior to the commencement of containment and recovery operations.			
Mechanical dispersion	Mechanical dispersion involves the use of a vessel's prop wash and/or fire hose to target surface hydrocarbons to achieve dispersion into the water column. However, this technique is of limited benefit in an open ocean environment where wind and wave action are likely to deliver similar advantages.	Although the technique is feasible, highly volatile hydrocarbons are likely to weather, spread and evaporate quickly. The volatile nature of the oil is also likely to lead to unsafe conditions in the vicinity of fresh hydrocarbon. Additionally, any vessel used for mechanical dispersion activities would be contaminated by the hydrocarbon and could potentially cause secondary contamination of unimpacted areas when exiting the spill area. The decontamination of a vessel used for mechanical dispersion activities would result in additional quantities of oily waste requiring appropriate handling and treatment.	No	Given the limited benefit of mechanical dispersion over natural wind and wave action, secondary contamination and waste issues, and the associated safety risk of implementing the response for this activity, this strategy is deemed unsuitable.			
In-situ Burning	In-situ burning is only effective where minimum slick thickness can be achieved.	Use of in-situ burning as a response technique for marine diesel is unfeasible as the minimum slick thickness cannot be attained due to rapid spreading. In addition, there is a limited window of opportunity in which this technique can be applied (prior to evaporation of the volatiles) which is unlikely to be	No	Diesel characteristics are not appropriate for the use of in-situ burning as the minimum thickness will not be attained due to rapid spreading. Furthermore, it would unnecessarily cause an increase in the release of atmospheric pollutants.			

Response Technique	Effectiveness	Feasibility	Decision	Rationale for the decision
		achieved. Furthermore, entering a volatile environment to undertake this technique would be unsafe for response personnel.		
Shoreline Protection and Deflection	Shoreline protection and deflection can be effective at preventing contamination of at-risk areas.	Use of shoreline protection and deflection for a spill of marine diesel is unlikely to provide any significant environmental benefit as the diesel will be subject to rapid spreading and evaporation prior to contact with any sensitive areas.		The modelling undertaken predicts that no shorelines will be impacted thus it is unlikely that this technique would be required.
		The modelling undertaken predicts no shoreline receptors are to be contacted by floating oil concentrations at any of the assessed thresholds and no accumulation of oil on shorelines, therefore shoreline protection and deflection does not require consideration.	No	
Shoreline Clean up	Shoreline clean-up is an effective means of hydrocarbon removal from contaminated shorelines where coverage is at an optimum level of 250 g/m².	A marine diesel spill would be prone to rapid spreading and evaporation prior to impacting any sensitive receptors. Operational monitoring will, however, be deployed from the outset of a spill to track the spill location and fate in real-time.		The modelling undertaken predicts that no shorelines will be impacted thus it is unlikely that this technique would be required.
		The modelling undertaken predicts no shoreline receptors are to be contacted by floating oil concentrations at any of the assessed thresholds and no accumulation of oil on shorelines, therefore shoreline protection and deflection does not require consideration.	No	
Oiled Wildlife	Oiled wildlife response is an effective response technique for reducing the overall impact of a spill on wildlife. This is mostly achieved through hazing to prevent additional wildlife from being contaminated and through rehabilitation of those already subject to contamination.	Due to the likely volatile atmospheric conditions surrounding a diesel spill, response options would be limited to hazing to ensure the safety of response personnel. In addition, any rehabilitation could only be undertaken by trained specialists.	Yes	The modelling undertaken predicts that no sensitive areas will be impacted thus it is unlikely that this technique would be required. However, in the event that wildlife are at risk of contamination, oiled wildlife response will be undertaken as and where required.

4.2.3 Exclusion of response techniques

Response techniques that are not feasible for the worst case scenario (Credible Scenario-01) for the WA-61-L and WA-62-L Subsea Infrastructure Installation are detailed in the subsections below and are excluded from further assessment within this document.

4.2.3.1 Surface Dispersant Application

Marine diesel is prone to rapid spreading and evaporation thus the use of dispersant would be deemed an unnecessary response technique. The application of dispersant to marine diesel is unnecessary as the diesel will rapidly evaporate and would thus unnecessarily introduce additional chemical substances to the marine environment. The additional entrainment would also increase exposure of subsea species and habitats to hydrocarbons.

4.2.3.2 Containment and Recovery

Marine diesel is prone to rapid spreading and evaporation thus reducing the feasibility of containment and recovery as a response technique. Furthermore, entering a volatile environment to undertake this technique would be unsafe for response personnel. Although this scenario results in surface oil of BAOAC 4, this only occurs within the first few hours during which time volatile levels would be very high and unsafe for response personnel.

4.2.3.3 Mechanical Dispersion

Mechanical dispersion involves the use of a vessel's prop wash and/or fire hose to target surface hydrocarbons to achieve dispersion into the water column. However, this technique is of limited benefit in an open ocean environment where wind and wave action are likely to deliver similar advantages. The volatile nature of the oil is likely to lead to unsafe conditions in the vicinity of fresh hydrocarbon. There are also secondary contamination and waste issues to consider.

4.2.3.4 In-situ Burning

This technique requires calm sea state conditions as is required for containment and recovery operations, which limits its feasibility in the offshore waters of the Operational Area. Optimum weather conditions are <20 knot wind speed and waves <1 to 1.5 m with oil collected to a minimum 3mm thick layer. Due to the conditions in Operational Area it is expected that the ability to contain oil may be limited as the sea state may exceed the optimum conditions. It is preferable that oil is fresh and does not emulsify to maximise burn efficiency and reduce residue thickness.

There are health and safety risks for response personnel associated with the containment and subsequent burning of hydrocarbons. It is also suggested that the residue from attempts to burn would sink, thereby posing a risk to the environment. The longer-term effects of burn residues on the marine environment are not fully understood and therefore, no assessment of the potential environmental impact can be determined. Furthermore, it is unlikely that MDO would achieve the required thickness for in-situ burning, rendering this an unsuitable method.

Until further operational and environmental information becomes available, Woodside will not consider this option.

4.2.3.5 Shoreline Protection and Deflection and Clean Up

Hydrocarbon spill modelling conducted for this activity does not predict shoreline contact at response thresholds (>100 g/m²). Shoreline protection and deflection and shoreline clean-up are therefore not deemed feasible.

4.3 Stage 2: Predict Outcomes

Woodside uses planning scenarios to assess potential impacts and response options for specific locations. Locations with potential environmental impacts, selected from the stochastic modelling are

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included for assessment. Response thresholds and modelling results are then used to assess the feasibility/effectiveness of a response.

4.4 Stage 3: Balance trade-offs

Woodside considers environmental impacts and response effectiveness/feasibility to determine the most effective oil spill response tools and balance trade-offs, using an automated NEBA tool. The tool considers potential benefits and impacts associated with a response at sensitive receptors and then considers the effectiveness/feasibility of the response to select the response techniques carried forward to the ALARP assessment. The NEBA can be found in **ANNEX A**: Net Environmental Benefit Analysis detailed outcomes.

4.5 Stage 4: Select Best Response Options

To select the response technique, all the other stages in the NEBA process are considered and used to establish response plans and any pre-approvals to support protection of identified environmental and social values.

The response techniques implemented may vary according to a particular spill. The hydrocarbon type released and the sensitivities of the receptors (both ecological and socio-economic) may influence the response. The pre-operational NEBA broadly evaluates each response technique and supports decisions on whether they are feasible and of net environmental benefit. Response techniques that are not feasible or beneficial are rejected at this stage and not progressed to planning.

Further risks and impacts from implementing these selected response options are outlined in **Section 7.**

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Table 4-3: Selection and prioritisation of response techniques

	Key characteristics	Feasibility of response techniques									
Response planning scenario	for response planning (times are minimum times to contact for first receptor and/or shoreline contacted above response threshold)	Monitor and evaluate	Source control (vessel)	Surface dispersant application	Containment and recovery	Mechanical dispersion	In situ burning	Shoreline protection and deflection	Shoreline clean-up	Oiled wildlife response	Outline response technique
Credible Scenario-01: Release of up to 1000 m³ marine diesel from a vessel collision	No shoreline contact predicted. The Gascoyne AMP is predicted to receive entrained oil concentrations at the 100 ppb threshold with a probability of 10%, and surface oil at the 10 g/m² threshold with a probability of 1%.	Yes	Yes	No	No	No	No	No	No	Yes	Monitor and evaluate. Initiate vessel source control if feasible. Plan for oiled wildlife response and implement if oiled wildlife is observed.

From the NEBA undertaken on the WCCS identified the primary response techniques are;

- Monitor and evaluate
- Source control on the vessel
- Oiled wildlife response

Support techniques may include:

- Waste management
- Scientific monitoring

5 HYDROCARBON SPILL ALARP PROCESS

Woodside's hydrocarbon spill ALARP process is aligned with guidance provided by NOPSEMA in *Oil Spill Risk Management Guidance Note N-04750-GN1488* (2021) and is set out in the 'Woodside Hydrocarbon Spill Oil Spill Preparedness and Response Mitigation Assessment (OSPRMA) Development Guidelines'.

From the identified response planning need and pre-operational NEBA/SIMA, Woodside conducts a structured, semi-quantitative hydrocarbon spill process which has the following steps:

- considers the Response Planning Need identified in terms of surface area (km²) and available surface hydrocarbon volumes (m³) against existing Woodside capability
- 2. considers alternative, additional, and improved options for each response technique/control measure by providing an initial and, if required, detailed evaluation of:
 - predicted cost associated with adopting the control measure
 - predicted change/environmental benefit
 - predicted effectiveness/feasibility of the control measure.
- 3. evaluates the risks and impacts of implementing the proposed response techniques, and any further control measures with associated environmental performance to manage these additional risks and impacts.

Woodside considers the risks and impacts from a hydrocarbon spill to have been reduced to ALARP when:

- 1. a structured process for identifying and considering alternative, additional, and improved options has been completed for each selected response technique
- 2. the analysis of alternate, additional, and improved control measures meets one of the following criteria:
 - all identified, reasonably practicable control measures have been adopted; or
 - no identified reasonably practicable additional, alternative and/or improved control measures would provide further overall increased proportionate environmental benefit; or
 - no reasonably practical additional, alternative, and/or improved control measures have been identified.
- 3. where an alternative, additional and/or improved control measure is adopted, a measurable level of environmental performance has been assigned
- 4. higher order impacts/ risks have received more comprehensive alternative, additional, and improved control measure evaluations and do not just compare the cost of the adopted control measures to the costs of an extreme or clearly unreasonable control measure
- 5. cumulative effects have been analysed when considered in combination across the whole activity.

The response technique selection is based on the risk assessment conducted in the EP. The risk assessment identifies the type of oil, volume of release, duration of release, predicted fate, weathering and the EMBA (along with other requirements such as time to impact and predicted volumes ashore). Modelling is then used to inform the NEBA and the prioritisation of suitable response options. The scale of the response techniques selected in the pre-operational NEBA is informed through the assessment of results from modelling.

For the purpose of the ALARP assessment, the following terms and definitions have been used:

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- Response techniques are considered the control measures that reduce consequences from hydrocarbon spill events. The terms 'response technique' and 'control measure' are used interchangeably.
- Cost is defined as the time, effort and/or trouble taken in financial, safety, design/storage/installation, capital/lease, and/or operations/maintenance terms to adopt a control measure.
- Where the predicted change to environmental impact is compared against standard environmental values and sensitivities impacts using positive or negative criteria from the NEBA Impact Ranking Classification Guidance in ANNEX A: Net Environmental Benefit Analysis detailed outcomes.

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5.1 Monitor and Evaluate (including operational monitoring)

Monitor and evaluate includes the gathering and evaluation of data to inform the oil spill response planning and operations. It includes fate and trajectory modelling, spill tracking, weather updates and field observations. This response option is deployed in some capacity for every event.

Table 5-1 below provides the operations monitoring plans that support the successful execution of this response technique.

Table 5-1: Description of supporting operational monitoring plans

ID	Title
OM01	Predictive modelling of hydrocarbons to assess resources at risk
OM02	Surveillance and reconnaissance to detect hydrocarbons and resources at risk
OM03	Monitoring of hydrocarbon presence, properties, behaviour and weathering in water
OM04	Pre-emptive assessment of sensitive receptors at risk
OM05	Shoreline assessment

Woodside maintains an *Operational Monitoring Operational Plan*. If shoreline contact is predicted, RPAs will be identified and assessed before contact. If shorelines are contacted, a shoreline assessment survey will be completed to guide effective shoreline clean-up operations. This plan includes the process for the IMT to mobilise resources depending on the nature and scale of the spill.

The proximity of Exmouth, Onslow and Karratha to the spill event location means that multiple logistical options are available to monitor the spill in relatively short timeframes. The primary mobilisation base for initial monitoring activities would be Exmouth. However, in the unlikely event of an extended spill with potential to impact receptors further afield, monitoring activities may also be mobilised from Onslow and Karratha.

5.1.1 Response need based on predicted consequence parameters

The following statements identify the key parameters upon which a response need can be based:

- Modelling of floating oil indicates that concentrations equal to or greater than the 10 g/m², 50 g/m² and 100 g/m² thresholds could potentially be found, in the form of slicks, up to 113 km, 60 km and 58 km from the spill site, respectively.
- No shoreline receptors are predicted to be contacted by floating oil concentrations at any
 of the assessed thresholds.
- No accumulation of oil on shorelines is predicted.
- The time to contact for oil at concentrations of entrained hydrocarbons greater than 100 ppb at shoreline receptors is 61 hours at the Gascoyne AMP.
- Arrangements for support organisations who provide specialist services or resources should be tested regularly.
- Plans, procedures and support documents need to be in place for Operational and Support functions. These should be reviewed and updated regularly.

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5.1.2 Environmental performance based on need

Table 5-2: Environmental Performance – Monitor and Evaluate

En	vironmental	To g	ather information from multiple sources to establish an ac					
Performance Outcome		operating picture as soon as possible and predict the fate and behaviour of the spill to validate planning assumptions and adjust response plans as appropriate						
Control measure			e scenario. ormance Standard	Measurement Criteria (Section 5.7)				
		1.1	Initial modelling available within 6 hours using the Rapid Assessment Tool					
1	Oil spill trajectory modelling	1.2	Detailed modelling available within 4 hours of RPS receiving information from Woodside	1, 3B, 3C, 4				
		1.3	Detailed modelling service available for the duration of the incident upon contract activation					
	Tracking buoy	2.1	Tracking buoy located on facility/ lead vessel and ready for deployment 24/7	1, 3A, 3C, 4				
		2.2	Deploy tracking buoy from facility/ lead vessel within 2 hours as per the First Strike Plan.	1, 3A, 3B, 4				
2		2.3	Contract in place with service provider to allow data from tracking buoy to be received 24/7 and processed.	1, 3B, 3C, 4				
		2.4	Data received to be uploaded into Woodside COP daily to improve the accuracy of other monitor and evaluate techniques.	1, 3B, 4				
	Satellite imagery	3.1	Contract in place with 3 rd party provider to enable access and analysis of satellite imagery. Imagery source/type requested on activation of service.	1, 3C, 4				
		3.2	3rd party provider will confirm availability of an initial acquisition within 2 hours.	1, 3B, 3C, 4				
3		3.3	First image received with 24 hours of Woodside confirming to 3rd party provider its acceptance of the proposed acquisition plan.	1				
		3.4	3rd party provider to submit report to Woodside per image. Report is to include a polygon of any possible or identified slick(s) with metadata.	1				
		3.5	Data received to be uploaded into Woodside COP daily to improve accuracy of other monitor and evaluate techniques.	1, 3B, 4				
		3.6	Satellite Imagery services available and employed during response.	1, 3C, 4				
	Aerial surveillance	4.1	At least 2 trained aerial observers available to be deployed by day 1 from resource pool.	1, 2, 3B, 3C, 4				
4		4.2	1 aircraft available for two sorties per day, available for the duration of the response from day 1	1, 3C, 4				
		4.3	Observer to compile report during flight as per first strike plan. Observers report available to the IMT within 2 hours of landing after each sortie.	1, 2, 3B, 4				
		4.4	Unmanned Aerial Vehicles/Systems (UAV/UASs) to support pre-emptive assessments as contingency if required.	1, 2				
5		5.1	Activate 3rd party service provider as per first strike plan. Deploy resources within 3 days:	1, 2, 3C, 3D, 4				

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Environmental Performance Outcome		To gather information from multiple sources to establish an accurate common operating picture as soon as possible and predict the fate and behaviour of the spill to validate planning assumptions and adjust response plans as appropriate to the scenario.					
Control measure		Perf	ormance Standard	Measurement Criteria (Section 5.7)			
			 3 specialists in water quality monitoring 2 monitoring systems and ancillaries 1 vessel for deploying the monitoring systems with a dedicated winch, A-frame or Hiab and ancillaries to deploy the equipment. 				
	Hydrocarbon detections in water	5.2	Water monitoring services available and employed during response.				
		5.3	Preliminary results of water sample as per contractor's implementation plan within 7 days of receipt of samples at the accredited lab.	1, 3C, 4			
		5.4	Daily fluorometry reports as per service provider's implementation plan will be provided to IMT to validate modelling and monitor presence/absence of entrained hydrocarbons.				
		5.5	Use of Autonomous Underwater Vehicles (AUVs) for hydrocarbon presence and detection may be used as a contingency if the operational NEBA confirms conventional methods are unsafe or not possible.	1, 2, 3C, 4			
6	Pre-emptive assessment of sensitive	6.1	10 days prior to any predicted impact, in agreement with WA DoT (for Level 2/3 incidents), deployment of 2 specialists from resource pool in establishing the status of sensitive receptors.	1, 2, 3B, 3C, 4			
	receptors	6.2	Daily reports provided to IMT on the status of the receptors to prioritise Response Protection Areas (RPAs) and maximise effective utilisation of resources.	1, 3B, 4			
7	Management of environmental impact of the response risks	of onmental act of the sponse will be selected to minimise disturbance to benthic habitats. Where existing fixed anchoring points are not available, locations will be selected to minimise impact to nearshore benthic environments with a preference for		1			

The control measures and capability of Woodside and its third-party service providers are shown to support Monitor and Evaluate activities up to and including the identified WCCS. This is demonstrated by the following:

- Woodside has a documented, structured and tested capability for Monitor and Evaluate operations including internal trajectory modelling capabilities, tracking buoys located offshore and contracted aerial observation platforms with access to trained observers.
- Woodside and its third-party service providers ensure there is sufficient capability for the duration of the response.
- Woodside has assessed the existing capability available and considered potential alternative, additional and improved control measures. Where control measures have been selected and implemented, they are included in **Section 6.1.**
- The health and safety, financial, capital and operations/maintenance costs of implementing the alternative, additional or improved control measures identified and

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- not carried forward are considered grossly disproportionate to the environmental benefit gained and/or not reasonably practicable for this PAP.
- The Monitor and Evaluate capability outlined in this section is part of the response developed to manage potential risks and impacts associated with the scenarios to ALARP, and there are no further additional, alternative and improved control measures other than those implemented that would provide further benefit.

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5.2 Source Control via Vessel SOPEP

Vessel source control will be conducted, where feasible and in accordance with MARPOL 73/78 Annex I, by the Vessel Master under the Shipboard Oil Pollution Emergency Plan (SOPEP) triggered by any loss of containment from the PAP vessels.

The SOPEP provides guidance to the Master and Officers on board the vessel with respect to the extra steps to be taken when an unexpected pollution incident has occurred or is likely to occur. The SOPEP contains all information and operational instructions required by IMO Resolution MEPC.54 (32) adopted on 6 March 1992, as amended by resolution MEPC.86 (44) adopted on 13 March 2000.

Its purpose is to set in motion the necessary actions to stop or minimise oil discharge and mitigate its effects and outlines responsibilities, pollution reporting requirements, procedures and resources needed in the event of a hydrocarbon spill from vessel activities.

In the event of a potential vessel collision, the vessel master may engage precautionary marine manoeuvres to avoid collision or commence pumping operations to transfer marine diesel and thus minimise the release.

5.2.1 Environmental performance based on need

Woodside has established control measures, environmental performance outcomes, performance standards and measurement criteria to be used for vessel-source oil spill response during the PAP which are detailed in Section 6.8 of the EP. The vessel master's roles and responsibilities are described in EP Section 7.3.

Performance standards for each contracted PAP vessel are detailed in the vessel's specific SOPEP.

These standards ensure that sufficient resources are available and are adequately tested to ensure implementation of the SOPEP in the event of a hydrocarbon spill.

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5.3 Oiled wildlife response

Oiled wildlife response (OWR) includes wildlife surveillance/ reconnaissance, wildlife hazing, pre-emptive capture, and the capture, cleaning, treatment, and rehabilitation of animals that have been oiled. In addition, it includes the collection, post-mortem examination, and disposal of deceased animals that have succumbed to the effects of oiling.

For a petroleum activity spill in Commonwealth waters, Woodside is required to take the role of Control Agency and will be responsible for the wildlife response. In such circumstances, Woodside would implement a response in accordance with the *Oiled Wildlife Operational Plan*, the WA Oiled Wildlife Response Plan (WAOWRP) (DBCA, 2022a) and the WA OWR Manual (DBCA, 2022b). The *Oiled Wildlife Operational Plan* includes the process for the IMT to mobilise resources depending on the nature and scale of the spill. Oiled wildlife operations would be implemented with advice and assistance from the Oiled Wildlife Advisor from the Department of Biodiveristy, Conservation and Attractions (DBCA).

The key plan for OWR in WA is the WAOWRP (DBCA, 2022a). The WAOWRP establishes the framework for preparing and responding to potential or actual wildlife impacts during a spill and sets out the management arrangements for implementing an OWR in conjunction with the DoT *State Hazard Plan – Maritime Environmental Emergencies* (SHP-MEE). It is the responsibility of DBCA to administer the WAOWRP under the direction of the DoT. The WAOWR Manual (DBCA, 2022b) supports, and should be used in conjunction with, the WAOWRP. The purpose of the WAOWR Manual is to standardise the operating procedures, protocols and processes for an OWR during a spill event in WA waters, and to create alignment between the wildlife response processes and the overall incident response (DBCA, 2022b).

If a spill occurs in WA State waters or enters State waters, DBCA is the Jurisdictional Authority for wildlife, and for level 2/3 spills, will also lead the oiled wildlife response under the control of the DoT. DBCA is the State Government agency responsible for administering the *Biodiversity Conservation Act 2016 (BC Act)*, which has provisions for authorising activities that affect wildlife.

For level 1 spills in State waters, Woodside is required to take the role of Control Agency, including for wildlife response. It is, however, also an expectation that for level 2/3 petroleum activity spills, Woodside will conduct the initial first-strike response actions for wildlife response and continue to manage those operations until DBCA is activated as the lead agency for wildlife response and formal handover occurs. Following formal handover, Woodside will function as a support organisation for the OWR and will be expected to continue to provide planning and resources as required.

Woodside retains specialist personnel to support and manage oiled wildlife operations, including trained and competent responders for deployment in Exmouth and Dampier. Additional personnel would be sourced through Woodside's arrangements to support an oiled wildlife response as required.

5.3.1 Response need based on predicted consequence parameters

Wildlife Response Priority Areas and Assessment of Wildlife Impact

French-McCay et al. (2002), based on a review of existing literature at the time, determined lethal thresholds for floating and shoreline oil for the external coating of wildlife to be 10 g/m² for floating, and 100 g/m² for shoreline accumulation. It should however be noted that toxicity thresholds for wildlife are likely to be highly variable due to differences in species sensitivity, type of hydrocarbon, type of exposure (ingestion or external oiling), life-stage, and on-water versus land habitat.

For planning purposes, determination of wildlife priority protection areas is based on stochastic modelling of the worst-case spill scenarios at 10 g/m² for floating, and 100 g/m² for shoreline

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accumulation (acknowledging that impacts to wildlife may occur at lower concentrations), the known presence of wildlife, and in consideration of the following:

- Presence of high densities of wildlife, threatened species, and/or endemic species with high site fidelity
- Greatest probability of shoreline accumulation
- Shortest timeframe to contact

Table 5-3 outlines the wildlife response priority areas for this activity. At the time of a spill, identification and allocation of wildlife response priority areas should also take into consideration any key biological activities. Additional detail regarding species and their key biological activities within the vicinity of the PAP are described in Section 4 of the WA-61-L and WA-62-L Subsea Infrastructure Installation EP.

For WA, the Pilbara and Kimberley Regional Oiled Wildlife Plans (DBCA [formerly Department of Parks and Wildlife), 2014) provide useful information relating to wildlife priority response areas in their respective regions.

Table 5-3: Key at-risk species potentially in Priority Protection Areas and open ocean

Species	Open ocean	Gascoyne AMP
Marine turtles (including foraging and inter-nesting areas and significant nesting beaches)	✓	✓
Whale sharks (migration to and from waters at Ningaloo)	✓	✓
Seabirds and/or migratory shorebirds	✓	✓
Cetaceans – migratory whales	✓	✓
Cetaceans – dolphins and porpoises	✓	✓
Sea snakes	✓	✓

The following statements identify the key parameters upon which a wildlife response need can be based:

- Floating oil at >10 g/m² is predicted at Gascoyne AMP within 64 hour for CS-01.
- There is no predicted shoreline accumulation at response thresholds (>100 g/m²).
- At sea there are likely to be low numbers of at risk or impacted wildlife, and limited
 opportunities to rescue wildlife, given the distribution and behaviour of animals in the
 open marine environment. At sea, continued wildlife reconnaissance, carcass
 recovery, sampling of carcasses that cannot be retrieved and scientific monitoring are
 more likely to be the focus of response efforts.
- As the surface oil approaches shorelines and as oil accumulates on the shoreline, potential for oiled wildlife impacts are likely to increase as well as opportunities to rescue wildlife.
- It is estimated that the wildlife impact would be between medium and high, as defined in the WAOWRP (DBCA, 2022a) (**Table 5-4**).

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Table 5-4: WAOWRP Guide for rating wildlife impact of an oil spill (DBCA, 2022)

Wildlife Impact Rating	Low	Medium	High
What is the likely duration of the wildlife response?	<3 days	3-10 days	>10 days
What is the likely total intake of animals?	<10	11-25	>25
What is the likely daily intake of animals?	0-2	2-5	>5
Are threatened species, or species protected by treaty, likely to be impacted, either directly or by pollution of habitat or breeding areas?	No	Yes – possible	Yes – likely
Is there likely to be a requirement for building primary care facility for treatment, cleaning and rehabilitation?	No	Yes – possible	Yes – likely

Tactics

Where there is imminent or actual impact to wildlife, Woodside will activate the Wildlife Division and follow the oiled wildlife incident management framework and implementation plan outlined in the Woodside *Oiled Wildlife Operational Plan*.

In Commonwealth waters, Woodside will be responsible for the planning and implementation of the OWR in its entirety. Noting that at sea, and in comparison to the shoreline, there are likely to be less wildlife impacted by an oil spill and limited opportunities to rescue wildlife, given the distribution and behaviour of animals in the open marine environment. At sea, continued wildlife reconnaissance, carcass recovery, sampling of carcasses that cannot be retrieved and integration with scientific monitoring are more likely to be the focus of the OWR.

In State waters, Woodside will conduct the initial first-strike response actions for wildlife and continue to manage those operations until DBCA is activated as the lead agency for wildlife response and formal handover occurs. Following formal handover, Woodside will function as a support organisation for the OWR and will be expected to continue to provide planning and resources as required.

If a protracted response is likely, requiring preventative actions and/or wildlife rescue, and formal hand over to the Control Agency (in State waters) has not yet occurred, the Wildlife Division will be responsible for the development of the Wildlife Division portion of the IAP. Preventative actions, such as hazing, along with capture, intake and treatment require a higher degree of planning, approval (licenses) and skills and will be planned for and carried out under the IAP as outlined in the *Oiled Wildlife Operational Plan* and in accordance with the WAOWRP (DBCA, 2022a) and WA OWR Manual (DBAC, 20022b).

The oiled wildlife response technique targets key wildlife populations at risk within Commonwealth open waters and the nearshore waters as described in **Section 4** of the EP.

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5.3.2 Environmental performance based on need

Table 5-5: Environmental Performance - Oiled Wildlife Response

Pe	vironmental rformance tcome	Austr cond	Wildlife Response is conducted in accordance with the alian Oiled Wildlife Response Plan (WAOWRP, 2022) ucted in accordance with legislative requirements to hanise wildlife under the <i>Biodiversity Conservation Act 2</i>	to ensure it is ouse, release or	
Со	ntrol measure	Perfo	ormance Standard	Measurement Criteria (Section 5.7)	
	Wildlife		Oiled Wildlife Operational Plan in place and utilised during a response to plan, coordinate, implement and terminate operations	1, 3A, 4	
8	response arrangements	response	8.2	Initiate a wildlife first strike response 5 days prior to confirmed or imminent wildlife contact as directed by relevant Operational Monitoring techniques (OM01-05) and in liaison with DBCA	1
	Wildlife response equipment	9.1	Maintain contract with AMOSC for immediate access to oiled wildlife response equipment.	1, 3C, 3D, 4	
9		•	9.2	Maintain contract with OSRL to access additional oiled wildlife response equipment.	1, 3C, 3D, 4
) Wildlife responders -	10.1	Two Oiled Wildlife Team Members to supervise the oiled wildlife operations who have completed an Oiled Wildlife Response Management course.	1, 2, 3B	
10		10.2	Maintain contract with AMOSC for immediate access to trained oiled wildlife response specialists	1, 3B, 3C	
		10.3	Maintain contract with OSRL to access additional trained oiled wildlife response specialists	1, 3B, 3C	
		10.4	Open communication line to be maintained between IMT and infield operations to ensure awareness of progress against plan(s).	1, 3A, 3B	
11	Management of 11 environmental impacts of response risks		Oiled wildlife operations (including hazing) would be implemented with advice and assistance from the Oiled Wildlife Advisor from the DBCA, and in accordance with the processes and methodologies described in the WA OWRP and the relevant regional plan.	1	

The resulting wildlife response capability has been assessed against the WCCS. The range of techniques provide an ongoing approach to response at identified RPAs.

Under optimal conditions, during the subsea or surface release, the capability available meets the need identified. It indicates that, the wildlife response capability has the following expected performance:

- Undertake OWR first strike response including mobilisation of operational monitoring (OM01-05) to identify wildlife and RPAs contacted or at imminent risk of contact by hydrocarbons.
- Availability and mobilisation of trained OWR personnel to supervise OWR activities.
- Access to wildlife resources (personnel and equipment) to meet the needs where there are medium or high levels of wildlife impact.

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5.4 Waste Management

Waste management is considered a support technique to oiled wildlife response, containment and recovery and shoreline clean-up. For the purposes of this OSPRMA, waste management may be required to support wildlife response. Waste generated and collected during the response that will require handling, management and disposal may consist of:

- Liquids (hydrocarbons and contaminated liquids) collected during wildlife response, and/or
- Solids/semi-solids (oily solids, garbage, contaminated materials) and debris collected during wildlife response.

Expected waste volumes during an event are likely to vary depending on oil type, volume released, response techniques employed and extent of weathering of hydrocarbons. Waste management, handling and capacity should be scalable to ensure continuous response operations can be maintained.

All waste management activities will follow the Environment Protection (Controlled Waste) Regulations 2004 and the waste will be managed to minimise final disposal volumes. Waste treatment techniques will consider contaminated solids treatment to allow disposal to landfill and solids with high concentrations of hydrocarbon will be treated and recycled where possible or used in clean fill if suitable.

The waste products would be transported from response locations to the nearest suitable staging area/waste transfer station for treatment, disposal or recycling. Waste will be transferred with appropriately licensed vehicles. Containers will be available for temporary waste storage and will be:

- labelled with the waste type
- provided with appropriate lids to prevent waste being blown overboard
- bunded if storing liquid wastes.
- processes will be in place for transfers of bulk liquid wastes and include:
 - inspection of transfer hose undertaken prior to transfer
 - watchman equipped with radio visually monitors loading hose during transfer
 - tank gauges monitored throughout operation to prevent overflow

The *Oil Spill Preparedness Waste Management Support Plan* details the procedures, capability and capacity in place between Woodside and its primary waste services contractor (Veolia Waste Management) to manage waste volumes generated from response activities.

5.4.1 Response Need Based on Predicted Consequence Parameters

Table 5-6: Response Planning Assumptions - Waste Management

	Response planning assumptions: Waste management				
Waste loading per m³ oil recovered (multiplier)	Oiled wildlife response – approx. 1m³ of oily liquid waste generated for each wildlife unit cleaned				

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5.4.2 Environmental Performance Based on Need

Table 5-7: Environmental Performance – Waste Management

Pei	Environmental Performance Outcome To minimise further impacts, waste will be managed, tracked and disposed of in accordance with laws and regulations.					
Col	ntrol Measure	Per	formance Standard	Measurement Criteria (Section 5.7)		
		12.1	Contract with waste management services for transport, removal, treatment and disposal of waste.			
		12.2	Access to at least 50 m ³ of solid and liquid waste storage available within 1 week upon activation of 3 rd party contract.			
	Waste Management	12.3	Recovered hydrocarbons and wastes will be transferred to licensed treatment facility for reprocessing or disposal.	1, 3A, 3B, 3C, 4		
10		12.4	Teams will segregate liquid and solid wastes at the earliest opportunity.			
12		12.5	Waste management provider support staff available year-round to assist in the event of an incident with waste management as detailed in contract.			
		12.6	Open communication line to be maintained between IMT and waste management services to ensure the reliable flow of accurate information between parties.	1, 3A, 3B		
		12.7	Waste management to be conducted in accordance with Australian laws and regulations.	1, 3A, 3B, 3C, 4		
		12.8	Waste management services available and employed during response.	1, 0A, 0B, 00, 4		
13	Management of environmental impact of the response risks	13.1	All oiled wildlife response sites zoned and marked before operations commence to prevent secondary contamination and minimise the mixing of clean and oiled waste.			

The resulting waste management capability has been assessed against the WCCS. The range of techniques provide an ongoing approach to waste management from oiled wildlife response.

It indicates that the waste management capability has the following expected performance:

- Woodside has assessed the existing capability available and considered potential alternative, additional and improved control measures.
- The waste management requirements of all credible spill scenarios are well within Woodside's and its service providers existing capacity.
- No further control measures that may result in an increased environmental benefit that
 involve moderate to significant cost and/or dedication of resources have been adopted
 as the requirements of this technique does not justify the excessive costs of identified
 alternate, improved or additional controls.

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5.5 Scientific monitoring

A scientific monitoring program (SMP) would be activated following a Level 2 or 3 unplanned hydrocarbon release, or any release event with the potential to contact sensitive environmental receptors. This would consider receptors at risk (ecological and socio-economic) for the entire predicted Environment that Maybe Affected (EMBA) and in particular, any identified Preemptive Baseline Areas (PBAs) for the credible spill scenario(s) or other identified unplanned hydrocarbon releases associated with the activity (refer to **Table 2-1** Activity credible spill scenarios).

The outputs of the stochastic hydrocarbon spill modelling were used to assess the environmental risk of the hydrocarbon affected area as delineated by the ecological impact EMBA and social-cultural EMBA based on exceedance of environmental and social-cultural hydrocarbon threshold concentrations (refer to **Table 2-2**, Section **2.3.1.1** and see Section 4 and 6 of the EP for further information on applicable thresholds and the EMBAs). The Petroleum Activities Program vessel collision marine diesel spill (CS-01) has been modelled and considered to determine the WCCS for the SMP planning purposes and is the basis of the SMP approach presented in this section.

It should be noted that the resulting SMP receptor locations may differ from the Response Protection Areas (RPAs) presented and as discussed in **Section 3** of this document due to the applicability of different hydrocarbon threshold levels. The SMP would be informed by the data collected via the operational monitoring program (OMP) studies, however, it differs from the OMP in being a long-term program independent of, and not directing, the operational oil spill response or monitoring of impacts from response activities (refer to **Section 5.1** Monitor and Evaluate) for the operational monitoring overview.

Key objectives of the Woodside oil spill scientific monitoring program are:

- Assess the extent, severity and persistence of the environmental impacts from the spill event.
- Monitor subsequent recovery of impacted key species, habitats and ecosystems.

The SMP comprises ten targeted environmental monitoring programs to assess the condition of a range of physical-chemical (water and sediment) and biological (species and habitats) receptors including Environment Protection and Biodiversity Conservation Act (EPBC Act 1999) listed species, environmental values associated with protected areas and socioeconomic values, such as fisheries. The ten SMPs are as follows:

- SM01 Assessment of the presence, quantity and character of hydrocarbons in marine waters (linked to OM01 to OM03)
- SM02 Assessment of the presence, quantity and character of hydrocarbons in marine sediments (linked to OM01 and OM05)
- SM03– Assessment of impacts and recovery of subtidal and intertidal benthos
- SM04 Assessment of impacts and recovery of mangroves/saltmarsh habitat
- SM05 Assessment of impacts and recovery of seabird and shorebird populations
- SM06 Assessment of impacts and recovery of nesting marine turtle populations
- SM07 Assessment of impacts to pinniped colonies including haul-out site populations
- SM08 Desktop assessment of impacts to other non-avian marine megafauna
- SM09 Assessment of impacts and recovery of marine fish (linked to SM03)
- SM10 Assessment of physiological impacts to important fish and shellfish species (fish health and seafood quality/safety) and recovery.

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These SMPs have been designed to cover all key tropical and temperate habitats and species within Australian waters and broader, if required. A planning area for scientific monitoring is also identified to acknowledge potential hydrocarbon contact below the environmental threshold concentrations and beyond the EMBA. This planning area has been set with reference to the entrained low exposure value of 10 ppb detailed in NOPSEMA Bulletin #1 Oil Spill Modelling (2019), as shown in **Figure 5-1**. Please note that **Figure 5-1** represents the overall combined extent of the oil spill model outputs based on a total of 100 replicate simulations over an annual period for the WCCS (CS-01) and therefore represents the largest spatial boundaries of all 100 CS-01 hydrocarbon release combinations, and not the spatial extent of a single CS-01 spill.

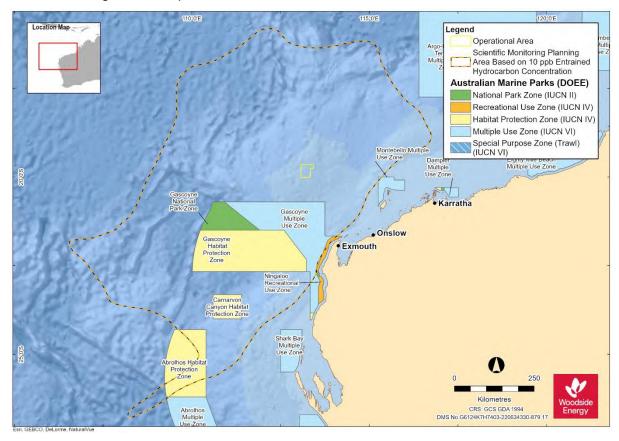


Figure 5-1: The planning area for scientific monitoring based on the area potentially contacted by the low (below ecological impact) entrained hydrocarbon threshold of 10 ppb in the event of the credible spill scenario (CS-01).

NOTE: Figure 5-1 represents the overall combined extent of the oil spill model outputs based on a total of 100 replicate simulations over an annual period for CS-01 and therefore represents the largest spatial boundaries of 100 CS-01 oil spill combinations, and not the spatial extent of a single CS-01 spill ⁶.

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⁶ Modelling for an instantaneous surface release of 2000 m³ MDO was available at the same field location. It was originally undertaken in 2019 and reprocessed in 2021 using NOPSEMA's contemporary modelling thresholds. The largest tank of the vessel proposed for the activity is circa 1000 m³, 50% smaller than the modelled MDO volume (2000 m³). Given that spill parameters and geographic location fall within the envelope of the existing MDO modelling, it is an appropriate surrogate and therefore additional modelling was not required.

5.5.1 Scientific Monitoring Deployment Considerations

Scientific Monitoring Deployment Considerations Existing baseline Pre-emptive Baseline Areas (PBAs) of the following two categories: studies for PBAs within the predicted < 10-day hydrocarbon contact time prediction: sensitive The approach is to conduct a desktop review of available and appropriate receptor baseline data for key receptors for locations (if any) that are potentially locations impacted within ten days of a spill and look to conduct baseline data predicted to be collection to address data gaps and demonstrate spill response affected by a preparedness. Planning for baseline data acquisition is typically spill commenced pre-PAP and execution of studies undertaken with consideration of weather, receptor type, seasonality and temporal assessment requirements. PBAs >10 days' time to predicted hydrocarbon contact in the event of an unplanned hydrocarbon release. SMP activation (as per the WA-61-L and WA-62-L Subsea Infrastructure Installation First Strike Plan) directs the SMP team to follow the steps outlined in the SMP Operational Plan. The steps include: checking the availability and type of existing baseline data, with particular reference to any PBAs identified as >10 days to hydrocarbon contact. Such information is used to identify response phase PBAs and plan for the activation of SMPs for pre-emptive (i.e. pre-hydrocarbon contact) baseline assessment. Activation of SMPs in order to collect baseline data at sensitive receptor Pre-emptive Baseline in the locations with predicted hydrocarbon contact time > 10 days (refer to Section event of a spill 5.5.2) and the process (as documented in ANNEX C: Oil Spill Scientific monitoring Program). In the event of the SMP activation, suitable survey platforms are available and Survey platform suitability and can support the range of equipment and data collection methodologies to be availability implemented in nearshore and offshore marine environments. Trained Access to trained personnel and the sampling equipment contracted for personnel to scientific monitoring via a dedicated scientific monitoring program standby implement contract. SMPs suitable and available Met-ocean The following met-ocean conditions have been identified as the field operational conditions limits for implementing SMPs: waves < 1 m for nearshore systems waves < 1.5 m for offshore systems winds < 20 knots daylight operations only. SMP implementation will be planned and managed according to HSE risk reviews and the met-ocean conditions on a day to day basis by SMP operations.

5.5.2 Response planning assumptions

Response Planning Assumptions					
Pre-emptive Baseline Areas	PBAs identified through the application of defined hydrocarbon impact thresholds during the Quantitative Spill Risk Assessment process and a consideration of the minimum time to contact at receptor locations fall into two categories:				
(PBAs)	• PBAs for which baseline data exist or are planned for and data collection may commence pre-PAP (≤ 10 days minimum time to contact).				

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PBAs (> 10 days minimum time to contact) for which baseline data may be collected in the event of an unplanned hydrocarbon release. In the event of a spill, response phase PBAs are prioritised for SMP activities based on vulnerability (i.e. time to contact and environmental sensitivity) to potential impacts from hydrocarbon contact and as well as the identified need to acquire baseline data.

Time to hydrocarbon contact of >10 days has been identified as a minimum timeframe within which it is feasible to plan and mobilise applicable SMPs and commence collection of baseline (pre-hydrocarbon contact) data, in the event of an unplanned hydrocarbon release from the WA-61-L and WA-62-L Subsea Infrastructure Installation operations.

PBAs for the WA-61-L and WA-62-L Subsea Infrastructure Installation operations.are identified and listed in ANNEX D: Monitoring Program and Baseline Studies for the Petroleum Activities Program, Table D-1. The PBAs together with the situational awareness (from the operational monitoring) are the basis for the response phase SMP planning and implementation.

WA-61-L and WA-62-L Subsea Infrastructure Installation operations.:

Pre-Spill

A review of existing baseline data for receptor locations (refer to Annex D) with potential to be contacted by entrained hydrocarbons at environmental thresholds within ≤10 days, relating to the credible hydrocarbon release for WA-61-L and

WA-62-L Subsea Infrastructure Installation operations identified the following:

- Gascoyne AMP
- Carnarvon Canyon AMP

Note: Both are offshore deepwater marine parks and entrained hydrocarbons above the 100 ppb ecological threshold is predicted for the upper layers of the water column but there is no hydrocarbon contact with the seabed.

Receptor locations with >10 days to hydrocarbon contact, as well as the wider area, will be investigated and identified by the SMP team (in the Environment Unit of the CIMT) as the spill event unfolds and as the situational awareness provided by the OMPs permits delineation of the spill affected area (for example, updates to the spill trajectory tracking). The full list is presented in Annex D, based on the PAP credible spill scenario (Table 2-1).

To address the initial focus in a response phase SMP planning situation, receptor locations predicted to be contacted between >10 days have been identified as follows:

Abrolhos AMP (see note above for Gascoyne and Carnarvon Canyons AMPs, same applicable).

In the Event of a Spill

In addition, the following AMPs are listed as a precaution as entrained hydrocarbons above 10 ppb are predicted to be present in the water column.

- Ningaloo Coast AMP and World Heritage Area (including the Muiron Islands)
- Montebello AMP

The unfolding spill affected area predictions and confirmation of appropriate baseline data will determine the selection of receptor locations and SMPs to be activated in order to gather pre-emptive (pre-hydrocarbon contact) data. Refer to ANNEX C for further details on scientific monitoring plan implementation and delivery). The timing of SMP activation and mobilisation of the individual SMPs to undertake data collection will be decided and documented by the Woodside SMP team following the process outlined in the SMP Operational Plan.

In the event key receptors within geographic locations that are potentially impacted after 10 days following a spill event or commencement of the spill and

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where adequate and appropriate baseline data are not available, there will be a response phase effort to collect baseline data for the following purposes:

- i. Priority will be given to the collection of baseline data for receptors predicted to be within the spill affected area prior to hydrocarbon contact. The process is initiated with the investigation of available baseline and time to hydrocarbon contact (>10 days which is sufficient time to mobilise SMP teams and acquire data before hydrocarbon contact). No receptor locations have been identified at this time for the WA-61-L and WA-62-L Subsea Infrastructure Installation operations.
- ii. Collect baseline data for receptors predicted to be outside the spill affected area so reference datasets for comparative analysis with impacted receptor types can be assessed post-spill.

A summary of the spill affected area and receptor locations as defined by the EMBA for the PAP worst case credible spill, CS-01, are presented in the WA-61-L and WA-62-L Subsea Infrastructure Installation EP (Section 6).

Baseline Data

The key receptors at risk by location and corresponding SMPs based on the EMBA for the PAP are presented in ANNEX D: Monitoring Program and Baseline Studies for the Petroleum Activities Program, as per credible spill event scenario(s). This matrix maps the receptors at risk with their location and the applicable SMPs that may be triggered in the event of a Level 2 or 3 hydrocarbon release, or any release event with the potential to contact sensitive environmental receptors. Receptor locations and applicable SMPs are colour coded to highlight possible time to contact based on receptor types and locations.

The status of baseline studies relevant to the PAP are tracked by Woodside through the maintenance of a Corporate Environment Environmental Baseline Database (managed by the Woodside Environmental Science team), as well as accessing external databases such as I-GEM (Industry-Government Environmental Metadata database) (refer to ANNEX C: Oil Spill Scientific monitoring Program).

5.5.3 Summary – scientific monitoring

The resulting scientific monitoring capability has been assessed against the PAP credible spill scenario. The range of techniques provide an ongoing approach to monitoring operations to assess and evaluate the scale and extent of impacts. All known reasonably practicable control measures have been adopted with the cost and organisational complexity of these options determined to be moderate and the overall delivery effectiveness determined to be medium. The SMP's main objectives can be met, with no additional, alternative or improved control measures providing further benefit.

5.5.4 Response planning: need, capability and gap – scientific monitoring

The receptor locations identified in ANNEX D: Monitoring Program and Baseline Studies for the Petroleum Activities Program provide the basis of the SMPs likely to be selected and activated. Once the Woodside SMP Delivery team and the SMP standby contractor have been stood up and the exact nature and scale of the spill becomes known, the SMPs to be activated will be confirmed as per the process set out in the SMP Operational Plan.

Scope of SMP Operations in the event of a hydrocarbon spill:

Receptor locations of interest for the SMP during the response phase are:

- Gascoyne AMP
- Carnarvon Canyons AMP

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Ningaloo Coast WHA and AMP

Documented baseline studies are available for certain receptor locations including the Ningaloo Coast (ANNEX D: Monitoring Program and Baseline Studies for the Petroleum Activities Program, Table D-2). The SMP technique; however, would be to deploy SMP teams to maximise the opportunity to collect pre-emptive data such water quality in the upper water layers of the Gascoyne and Carnarvon Canyons AMPs as well as along the Ningaloo Coast. SM01 would be mobilised as a priority to be able to detect hydrocarbons and track the leading edge of the spill to verify where hydrocarbon contact occurs which will assist with where SMP resources are a priority need to obtain pre-emptive baseline data.

The ALARP assessment for the SMP (Section 6.5) considers alternate, additional, and/or improved control measures on each selected response technique.

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5.5.5 Environmental performance based on need

Table 5-8: Scientific monitoring

Envir	ronmental Performance Outcome	Woodside can demonstrate preparedness to stand up the SMP to quantitatively assess and report on the extent, severity, persistence and recovery of sensitive receptors impacted from the spill event
Cont	rol measure	Performance Standard Measurement Criteria
14	Woodside has an established and dedicated SMP team comprising the Science & Biodiversity Team and additional Environment Advisers.	 SMP team comprises a pool of competent Environment Advisers (stand up personnel) who receive training regarding the SMP, SMP activation and implementation of the SMP on an annual basis Training materials Training attendance registers Process that maps minimum qualification and experience with key SMP role competency and a tracker to manage availability of competent people for the SMP team including redundancy and rostering
15	 Woodside has contracted SMP service provider to provide scientific personnel to resource a base capability of one team per SMP (SM01-SM10, see ANNEX C Table C-2) as detailed in Woodside's SMP standby contractor Implementation Plan, to implement the oil spill scientific monitoring programs. The availability of relevant personnel is reported to Woodside on a monthly basis via a simple report on the base-loading availability of people for each of the SMPs comprising field work for data collection (SMP resourcing report register). In the event of a spill and the SMP is activated, the base-loading availability of scientific personnel will be provided by SMP standby contractor for the individual SMPs and where gaps in resources are identified, SMP standby contractor/Woodside will seek additional personnel (if needed) from other sources including Woodside's Environmental Services Panel. 	 Woodside maintains the capability to mobilise personnel required to conduct scientific monitoring programs SM01 – SM10 (except desktop based SM08): Personnel are sourced through the existing standby contract with SMP standby contractor. as detailed within the SMP Implementation Plan. Scientific Monitoring Program Implementation Plan describes the process for standing up and implementing the scientific monitoring programs. SMP team stand up personnel receive training regarding the stand up, activation and implementation of the SMP on an annual basis SMP annual arrangement testing and reporting
16	 Roles and responsibilities for SMP implementation are captured in Table C-1 (ANNEX C) and the SMP team (as per the organisational structure of the CIMT) is outlined in SMP Operational Plan. Woodside has a defined Crisis and Incident Management structure including Source Control, Operations, Planning and Logistics Sections to manage a loss of well containment response. SMP Team structure, interface with SMP standby contractor and linkage to the CIMT is presented in Figure C-1, ANNEX C. Woodside has a defined Command, Control and Coordination structure for Incident and Emergency Management that is based on the AIIMS framework utilised in Australia. Woodside utilises an online Incident Management System (IMS) to coordinate and track key incident management functions. This includes specialist modelling programs, geographic information systems (GIS), as well as communication flows within the Command, Control and Coordination structure. SMP activated via the FSP. Step by step process to activation of individual SMPs provided in the SMP Operational Plan. All decisions made regarding SMP logged in the online IMS (SMP team members trained in using Woodside's online Incident Management System). SMP component input to the CIMT IAP as per the identified CIMT timed sessions and the SMP IAP logged on the online IMS. Woodside Science & Biodiversity Team provides awareness training on the activation and stand-up of the Scientific Monitoring Programme (SMP) for the Environment Advisers in Woodside who are listed on the SMP team on an annual basis. Woodside Science & Biodiversity Team provides awareness training on the activation and stand-up of the Scientific Monitoring Program (SMP) for the SMP Standby provider. Woodside Science & Biodiversity Team co-ordinates an annual SMP arrangement testing exercise performed by the SMP standby contractor. SMP standby contractor and the SMP arrangem	Woodside have established an SMP organisational structure and processes to stand up and deliver the SMP. SMP Implementation Plan SMP annual arrangement testing and reporting SMP annual arrangement testing and reporting

17	 Chartered and mutual aid vessels. Suitable vessels would be secured from the Woodside support vessels, regional fleet of vessels operated by Woodside and other operators and the regional charter market. Vessel suitability will be guided by the need to be equipped to operate grab samplers, drop camera systems and water sampling equipment (the individual vessel requirements are outlined in the relevant SMP methodologies (refer to Table C-2, ANNEX C). Nearshore mainland waters could use the same approach as for open water. Smaller vessels may be used where available and appropriate. Suitable vehicles and machinery for onshore access to nearshore SMP locations would be provided by Woodside's transport services contract and sourced from the wider market. Dedicated survey equipment requirements for scientific monitoring range from remote towed video and drop camera systems to capture seabed images of benthic communities to intertidal/onshore surveying tools such as quadrats, theodolites and spades/trowels, cameras and binoculars (specific survey equipment requirements are outlined in the relevant SMP methodologies (refer to Table C-2, ANNEX C)). Equipment would be sourced through the existing SMP standby contract with Standby SMP contractor for SMP resources and if additional surge capacity is required this would be available through the other Woodside Environmental Services Panel Contractors and specialist contractors. Standby SMP contractor can also address equipment redundancy through either individual or multiple suppliers. MoUs are in place with marine sampling equipment suppliers and analytical laboratories (SMP resourcing report register). Availability of SMP equipment for offshore/onshore scientific monitoring team mobilisation is within one week to ten days of the commencement of a hydrocarbon release. This meets the SMP mobilisation lead time that will support meeting the response objective of 'acquire, where practicable, the environmental baseline data	17.1	Woodside maintains standby SMP capability to mobilise equipment required to conduct scientific monitoring programs SM01 – SM10 (except desktop based SM08): • Equipment are sourced through the existing standby contract with SMP standby contractor as detailed within the SMP Implementation Plan.	 Hydrocarbon Spill Preparedness Team Internal Control Environment tracks the quarterly review of the Oil Spill Contracts Master. SMP standby monthly resource reports of equipment availability provided by SMP contractor (SMP resourcing report register). SMP annual arrangement testing and reporting.
18	 Woodside's SMP approach addresses the pre-PAP acquisition of baseline data for Pre-emptive Baseline Areas (PBAs) with ≤10 days if required following a baseline gap analysis process. Woodside maintains knowledge of Environmental Baseline data through: Documentation annual reviews of the Woodside Baseline Environmental Studies Database, and specific activity baseline gap analyses. Accessing external databases such as the Department of Water and Environmental Regulation (WA) Index of Marine Surveys for Assessment (IMSA) (refer to ANNEX C: Oil Spill Scientific Monitoring Program). 	18.1	 Annual reviews of environmental baseline data PAP specific Pre-emptive Baseline Area baseline gap analysis 	 Annual review/update of Woodside Baseline Environmental Studies Database. Desktop review to assess the environmental baseline study gaps completed prior to EP submission. Accessing baseline knowledge via the SMP annual arrangement testing.

Environmental Performance Outcome		SMP plan to acquire response phase monitoring targeting pre-emptive baseline data achieved			
Cor	trol measure	Perfo	rmance Standard	Measurement Criteria	
19	Woodside's SMP approach addresses: Scientific data acquisition for PBAs >10 days to hydrocarbon contact and activated in the response phase and Transition into post-response SMP monitoring.	19.1	Pre-emptive Baseline Area (PBA) baseline data acquisition in the response phase If baseline data gaps are identified for PBAs predicted to have hydrocarbon contact in >10 days, there will be a response phase effort to collect baseline data. Priority in implementing SMPs will be given to receptors where pre-emptive baseline data can be acquired or improved. SMP team (within the Environment Unit of the CIMT) contribute SMP component of the CIMT Planning Section in development of the IAP.	 Response SMP plan Woodside's online Incident Management System Records SMP component of the Incident Action Plan (IAPs). 	
		19.2	Post Spill contact For the receptors contacted by the spill in where baseline data are available, SMPs programs to assess and monitor receptor condition will be implemented post spill (i.e. after the response phase).	 SMP planning document SMP Decision Log Incident Action Plans (IAPs) 	

Environmental Performance Outcome	Implementation of the SMP (response and post-response phases)		
Control measure	Performance Standard	Measurement Criteria	

20	•	Scientific monitoring will address quantitative assessment of environmental impacts of a level two or three spill or any release event with the potential to contact sensitive environmental receptors. The SMP comprises ten targeted environmental monitoring programs. SMP supporting documentation: (1) Oil Spill Scientific Monitoring Operational Plan; (2) SMP Implementation Plan and (3) SMP Process and Methodologies Guideline. The Oil Spill Scientific Monitoring Operational Plan details the process of SMP selection, input to the Incident Action Plan (IAP) to trigger operational logistic support services. Methodology documents for each of the ten SMPs are accessible detailing equipment, data collection techniques and the specifications required for the survey platform support. The SMP standby contractor holds a Woodside SMP implementation plan detailing activation processes, linkage with the Woodside SMP team and the general principles for the planning and mobilisation of SMPs to deliver the individual SMPs activated. Monthly resourcing report are issued by the SMP standby contractor (SMP resourcing report register). All SMP documents and their status are tracked via SMP document register.	20.1	Implementation of SM01 SM01 will be implemented to assess the presence, quantity and character of hydrocarbons in marine waters during the spill event in nearshore areas Implementation of SM02-SM10 SM02-SM10 will be implemented in accordance with the objectives and activation triggers as per Table C-2 of Annex C.	 Evidence SM01 has been triggered: Documentation as per requirements of the SMP Operational Plan Woodside's online Incident Management System Records. SMP component of the IAP SMP data records from field Evidence SMPs have been triggered: Documentation as per requirements of the SMP Operational Plan Woodside's online Incident Management System Records. SMP component of the IAP
					SMP Data records from field
			20.3	Termination of SMP plans The Scientific Monitoring Program will be terminated in accordance with termination triggers for the SMP's detailed in Table C-2 of Annex C, and the Termination Criteria Decision-tree for Oil Spill Environmental Monitoring (Figure C-3 of Annex C):	Evidence of Termination Criteria triggered: Documentation and approval by relevant persons/ organisations to end SMPs for specific receptor types.

5.6 Incident Management System

The Incident Management System (IMS) is both a control measure and a measurement criteria. As a control measure the IMS function is to prompt, facilitate and record the completion of three key response planning processes detailed below. As a measurement criteria, the IMS records the evidence of the timeliness of all response actions included in the environmental performance standards and the plans used of the PAP.

As the IMS does not directly remove hydrocarbons spilt into the marine environment there is no direct relationship to the response planning need.

5.6.1 Incident action planning

The CIMT will be required to collect and interpret information from the scene of the incident to determine support requirements to the site-based IMT, develop an incident action plan (IAP) and assist the CIMT with the execution of that plan. The site-based IC may request the CIMT to complete notifications internally within Woodside, to persons/ organisations and government agencies as required. Depending on the type and scale of the incident either the CIMT DM or IC will be responsible for ensuring the development of the IAP. Incident Action Planning is an ongoing process that involves continual review to ensure techniques to control the incident are appropriate to the situation at the time.

5.6.2 Operational NEBA process

In the event of a response Woodside will confirm that the response techniques adopted at the time of Environment Plan/Oil Pollution Emergency Plan (EP/OPEP) acceptance remain appropriate to reduce the consequences of the spill. This process verifies that there is a continuing net environmental benefit associated with continuing the response technique through the operational NEBA process. This process manages the environmental risks and impacts of response techniques during the spill response, an operational NEBA will be undertaken throughout the response, for each operational period.

The operational NEBA will consider the risks and benefits of conducting and response activity. For example, if vessels are required for access to nearshore or onshore areas, anchoring locations will be selected to minimise disturbance to benthic habitats. Vessel cleanliness would be commensurate with the receiving environment. The operational NEBA will consider the risks and benefits of conducting other response techniques.

The operational NEBA process is also used to terminate a response. Using data from operational and scientific monitoring activities the response to a hydrocarbon spill will be terminated in accordance with the termination process outlined in the Oil Pollution Emergency Arrangements (Australia). In effect the operational NEBA will determine whether there is net environmental benefit to continue response operations.

5.6.3 Consultation engagement process

Woodside will ensure persons/ organisations are engaged during the spill response in accordance with internal standards as outlined in **Table 5-9**. This process requires that Woodside will:

- Undertake all required notifications (including government notifications) for persons/ organisations in the region (identified in the First-Strike Response Plan). This includes notification to mariners to communicate navigational hazards introduced through response equipment and personnel.
- In the event of a response, identify and engage with relevant persons/ organisations and continually assess and review.

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5.6.4 Environmental performance based on need

Table 5-9: Environmental Performance – Incident Management System

Environmental Performance Outcome To support the effectiveness of all other control measures and monitor/ performance levels achieved.				
	ontrol measure Performance Standard		Measurement Criteria (Section 5.7)	
	On anational	21.1	Confirm that the response techniques adopted at the time of acceptance remain appropriate to reduce the consequences of the spill within 24 hours.	
21	Operational NEBA	21.2	Record the evidence and justification for any deviation from the planned response activities.	
		21.3	Record the information and data from operational and scientific monitoring activities used to inform the NEBA.	
		22.1	Prompt and record all notifications (including government notifications) for persons/ organisations in the region are made	1, 3A
22	Stakeholder	22.2	In the event of a response, identification of relevant persons/ organisations will be re-assessed throughout the response period.	
	engagement		Undertake communications in accordance with:	
			 Functional Support Team Guideline – Reputation 	
		22.3	 External Communication and Continuous Disclosure Procedure 	
			External Stakeholder Engagement Procedure	
		23.1	Action planning is an ongoing process that involves continual review to ensure techniques to control the incident are appropriate to the situation at the time.	1, 3B
		23.2	A duty roster of trained and competent people will be maintained to ensure that minimum manning requirements are met all year round.	3C
23	Personnel required to support any response	23.3	Immediately activate the CIMT with personnel filling one or more of the following roles: CIMT Incident Commander CIMT Deputy Incident Commander Operations Section Chief Planning Section Chief Logistics Section Chief Documentation Unit Leader Safety Officer Environment Unit Leader Human Resources Officer Public Information Officer Situation Unit Leader Finance Section Chief Collect and interpret information from the scene of the incident to determine support requirements to the site-based IMT, develop an Incident Action Plan (IAP) and assist with the execution of that plan.	1, 2, 3B, 3C, 4

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Pe	vironmental rformance tcome	To support the effectiveness of all other control measures and monitor/record the performance levels achieved.					
Control measure		Perfo	ormance Standard	Measurement Criteria (Section 5.7)			
		23.5	S&EM advisors will be integrated into CIMT to monitor performance of all functional roles.				
		23.6	Continually communicate the status of the spill and support Woodside to determine the most appropriate response by delivering on the responsibilities of their role.				
		23.7	Follow the OPEA, Operational Plans, FSPs, support plans and the IAPs developed.	1, 2, 3A, 4			
		23.8	Contribute to Woodside's response in accordance with the aims and objectives set by the CIMT IC.	1, 2, 3B, 3C, 4			

5.7 Measurement criteria for all response techniques

Woodside ensures compliance with environmental performance outcomes and standards through four primary mechanisms. The aforementioned performance tables identify which of these four mechanisms monitors the readiness and records the effectiveness and performance of the control measures adopted.

1. The Incident Management System

The Incident Management System (IMS) supports the implementation of the Emergency and Crisis Management Procedure. The IMS provides a near real-time, single source of information for monitoring and recording an incident and measuring the performance of those control measures.

The Emergency and Crisis Management Procedure defines the management framework, including roles and responsibilities, to be applied to any size incident (including hydrocarbon spills). The organisational structure required to manage an incident is developed in a modular fashion and is based on the specific requirements of each incident. The structure can be scaled up or down.

The Incident Action Plan (IAP) process formally documents and communicated the:

- Incident objectives
- Status of assets
- Operational period objectives
- Response techniques (defined during response planning)
- The effectiveness of response techniques.

The information captured in the IMS (including information from personal logs and assigned tasks/close outs) confirms the response techniques implemented remain appropriate to reduce the consequences of the spill. The system also records all information and data that can be used to support the site-based IMT, development and the execution of the IAP.

2. The S&EM Competency Dashboard

The S&EM competency dashboard records the number of trained and competent responders that are available across Woodside, and some external providers, to participate in a response.

This number varies dependent on expiry of competency certificates, staff attrition, internal rotations, leave and other absences. As such the Dashboard is designed to identify the minimum manning requirements and to identify sufficient redundancy to cater for the variances listed above.

Figure 5-2 shows the minimum manning numbers for the different hydrocarbon spill response roles and the number of qualified persons against those roles.

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Woodside's pool of trained responders is composed of but not limited to personnel from the following organisations:

- Woodside internal
- Australian Marine Oil Spill Centre (AMOSC) core group
- AMOSC
- Oil Spill Response Limited (OSRL)
- Marine Spill Response Corporation (MSRC)
- AMSA
- Woodside contracted workforce

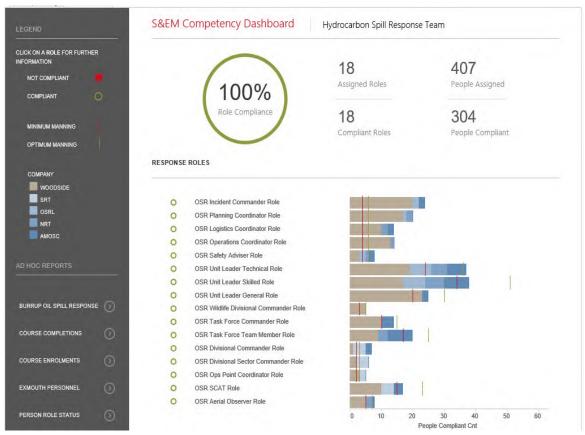


Figure 5-2: Example screen shot of the HSP competency dashboard

The Dashboard is one of Woodside's key means of monitoring its readiness to respond. It also shows that Woodside can meet the requirements of the environmental performance standard that relate to filling certain response roles.

Figure 5-3 shows deeper dive into the Ops Point Coordinator role and the training modules required to show competence.

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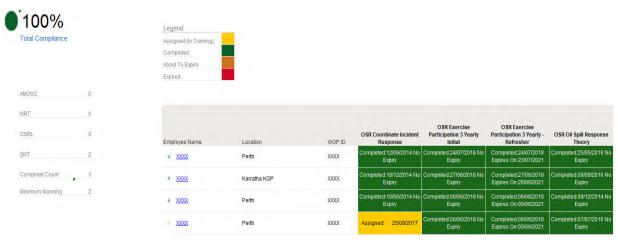


Figure 5-3: Example screen shot for the Ops Point Coordinator role

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3. The Hydrocarbon Spill Preparedness ICE Assurance Process

The Hydrocarbon Spill Response Team has developed a Hydrocarbon Spill Preparedness and Response Internal Control Environment (ICE) process to align and feed into the Woodside Management System Assurance process for hydrocarbon spill. The process tracks compliance over four key control areas:

- a) Plans Ensures all plans (including: Oil Pollution Emergency Arrangements, first strike plans, operational plans, support plans and tactical response plans) are current and in line with regulatory and internal requirements.
- b) Competency Ensures the competency dashboard is up to date and there are the minimum competency numbers across CIMT, CMT and hydrocarbon spill response roles. The hydrocarbon spill training plan and exercise schedule, including testing of arrangements is also tracked. The Testing of Arrangements (TOA) register tracks the testing of all hydrocarbon spill response arrangements, key contracts and agreements in place with internal and external parties to ensure compliance.
- c) **Capability** Tracks and monitors capability that could be required in a hydrocarbon incident, including but not limited to: integrated fleet⁷ vessel schedule, dispersant availability, rig/vessels monitoring, equipment stockpiles, tracking buoy locations and the CIMT duty roster.
- d) Compliance and Assurance Ensures all regulator inspection outcomes are actioned and closed out, the global legislation register is up to date and that the key assurance components are tracked and managed. Assurance activities (including Audits) conducted on memberships with key Oil Spill Response Organisations (OSROs) including AMOSC and OSRL are also tracked and recorded in the ICE.

The ICE assurance process records how each commitment listed in the performance tables above is managed to ensure ongoing compliance monitoring. The level of compliance can be reviewed in real time and is reported on a monthly basis through the S&EM Function.

The completion of the assurance checks (over and above the ICE process) is also applied via the Woodside Integrated Risk and Compliance System (WiRCs) and subject to the requirements of Woodside's Provide Assurance Procedure.

4. The Hydrocarbon Spill Preparedness and Response Procedure

This procedure sets out how to plan and prepare for a liquid hydrocarbon spill to the marine environment. (Note, this procedure does not apply to scenarios relating to gas releases in the marine environment).

This procedure details the:

- Requirement for an Oil Pollution Emergency Plan (OPEP) to be developed, maintained, reviewed, and approved by appropriate regulators (where applicable) including:
 - Defining how spill scenarios are developed on an activity specific basis
 - Developing and maintaining all hydrocarbon spill related plans
 - Ensuring the ongoing maintenance of training and competency for personnel
 - Developing the testing of spill response arrangements
 - Maintaining access to identified equipment and personnel.
- Planning for hydrocarbon spill response preparedness
- Accountabilities for hydrocarbon spill response preparedness
- Spill training requirements
- Requirements for spill exercising / testing of spill response arrangements
- Spill equipment and services requirements.

⁷ The Integrated fleet consists of vessels from multiple operators that have been contracted to Woodside to undertake a number of duties including hydrocarbon spill response.

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The procedure also details the roles and responsibilities of the dedicated Woodside Hydrocarbon Spill Preparedness team. This team is responsible for:

- Assuring that Woodside hydrocarbon spill responders meet competency requirements.
- Establishing the competency requirements, annual training schedule and a training register of trained personnel.
- Establishing and maintaining the total numbers of trained personnel required to provide an effective response to any hydrocarbon spill incident.
- Ensuring equipment and services contracts are maintained
- Establishing OPEPs
- Establishing OPEAs
- Priority response receptor determination
- ALARP determination

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• Ensuring compliance and assurance is undertaken in accordance with external and internal requirements.

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6 ALARP EVALUATION

This section should be read in conjunction with **Section 5** which is the capability planned for this activity.

6.1 Monitor and evaluate – ALARP assessment

Alternative, Additional and Improved options have been identified and assessed against the base capability described in Section 5 with those that have been selected for implementation highlighted in green. Items highlighted in red have been considered and rejected on the basis that they are not feasible, the costs are clearly disproportionate to the environmental benefit, and/or the option is not reasonably practical. Control measures where there is not a clear justification for their inclusion or exclusion may be subject to a detailed ALARP assessment.

6.1.1 Monitor and evaluate – control measure options analysis

Woodside's existing level of capability is based on internal and third-party resources that are available 24 hours, 7 days per week. The capability presented below is displayed as ranges to incorporate operational factors such as weather, crew/vessel/aircraft/vehicle location and duties, survey or classification society inspection requirements, overflight/port/quarantine permits and inspections, crew/pilot duty and fatigue hours, re-fuelling/re-stocking provisions, and other similar logistic and operational limitation that are beyond Woodside's direct control.

6.1.1.1 Alternative control measures

Option considered	Environmental consideration	Feasibility	Approx. Cost	Assessment conclusions	Implemented
Aerostat (or similar inflatable observation platform) for localised aerial surveillance.	Lead time to Aerostat surveillance is disproportionate to the environmental benefit. The system also provides a very limited field of visibility around the vessel it is deployed from.	Long lead time to access (>10 days). Each system would require an operator to interpret data and direct vessels accordingly.	Purchase cost per system approx. A\$300,000.	This option is not adopted as the minimal environmental benefit gained is disproportionate to the cost and complexity of its implementation.	No
Alternate analysis technologies and methods such as gravimetric, colorimetric, infra-red and UV absorption for OM03.	Due to time, limitations on sampling, equipment, methodology and analysis, the technique does not provide an environmental benefit compared to alternative available technologies.	 Gravimetric (Involves lab analysis so cannot be done on location, maybe completed with field samples in laboratory), Colorimetric (requires chemical addition and catalysts no standard method, needs specialist training), Infra-red (droplet size too small for infra-red analysis). Hydrocarbons need to be extracted from water for test, therefore requires a laboratory test), and UV absorption (Similar technology to fluorometers which are more widely available in Australia) were evaluated but all have limitations that do not improve the environmental benefit. 	NA	This strategy is not considered feasible, therefore no further ALARP assessment is conducted.	No

6.1.1.2 Additional control measures

Additional Control Measures considered Additional control measures are evaluated in terms of them reducing an environmental impact or an environmental risk when added to the existing suite of control measures						
Option considered	Environmental consideration	Feasibility	Approx. Cost	Assessment Conclusions	Implemented	
Additional personnel trained to use systems for OM01.	Current arrangement provides an environmental benefit in the availability of trained personnel facilitating access to monitoring data used to inform all other response techniques. No improvement required.	No improvement can be made, all personnel in technical roles e.g. intelligence unit are trained and competent on the software systems. Personnel are trained and exercised regularly. Use of the software and systems forms part of regular work assignments and projects.	Cost for training in-house staff would be approx. A\$25,000.	This option is not adopted as the current capability meets the need.	No	
Additional satellite tracking buoys to enable greater area coverage.	Increased capability does not provide an environmental benefit compared to the disproportionate cost in having an additional contract in place.	Tracking buoy will be on vessel, additional needs are met from Woodside owned stocks in King Bay Supply Facility (KBSF) and Exmouth or can be provided by service provider in a timely manner.	Cost for an additional satellite tracking buoy would be A\$200 per day or A\$6,000 to purchase.	This option is not adopted as the current capability meets the need, but additional units are available if required.	No	

Additional trained aerial observers. Current capability meets need. Woodside has access to a pool of trained, competent observers at strategic locations to ensure timely and sustainable response. Additional observers are available through current contracts with AMOSC and OSRL.	Current capability meets need. Woodside has a pool of trained, competent observers at strategic locations to ensure timely and sustainable response. Additional observers are available through current contracts with AMOSC and OSRL Aviation standards and guidelines ensure all aircraft crews are competent for their roles. Woodside maintains a pool of trained and competent aerial observers with various home base locations to be called upon at the time of an incident. Regular audits of oil spill response organisations ensure training and competency is maintained.	Cost for additional trained aerial observers would be A\$2,000 per person per day.	This option is not adopted as the current capability meets the need, but additional observers are available via response contractors if required.	No
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Improved Control Measur Improved control measures		ffectiveness of adopted control measures in terms of functionality,	availability, reliability, surviva	bility, independence and compatibili	ty
Option considered	Environmental consideration	Feasibility	Approx. Cost	Assessment conclusions	Implemented
Faster turnaround time from modelling contractor.	Improved control measure does not provide an environmental benefit compared to the disproportionate cost in having an additional contract in place.	External contractor on CIMT roster to be called as soon as required. However initial information needs to be gathered by CIMT team to request an accurate model. External contractor has person on call to respond from their own location.	Modelling service with a faster activation time would be achieved via membership of an alternative modelling service at an annual cost of A\$50,000 for 24-hour access plus an initial A\$5,000 per modelling run.	This option is not adopted as the minimal environmental benefit gained is disproportionate to the cost and complexity of its implementation.	No
Night-time aerial surveillance.	The risk of undertaking the aerial observations at night is disproportionate to the limited environmental benefit. The images would be of low quality and no visual cross reference verification is possible and as such the variable is not adopted.	Flights will only occur when deemed safe by the pilot. The risk of night operations is disproportionate to the benefit gained, as images from sensors (IR, UV, etc.). will be low quality. Flight time limitations will be adhered to.	No improvement can be made without risk to personnel health and safety and breaching Woodside's golden rules.	This option is not adopted as the safety considerations outweigh any environmental benefit gained.	No
Faster mobilisation time (for water quality monitoring).	Due to the restriction on accessing the spill location on day 1 there is no environmental benefit in having vessels available from day 1. The cost of having dedicated equipment and personnel is disproportionate to the environmental benefit. The availability of vessels and personnel meets the response need.	Operations are not feasible on day 1 as volatility has potential to cause health and safety concerns within the first 24 hours of the response. Current Woodside arrangements allow for water quality monitoring to commence by day 3. Shortening the timeframes for vessel availability would require dedicated response vessels on standby in Darwin and would accelerate the initiation of monitoring by 1 day.	Cost for purchase of equipment approx. A\$200,000. Ongoing costs per annum for cost of hire and pre-positioning for life of asset/activity would be larger than the purchase cost.	This option is not adopted as the area could not be accessed earlier due to safety considerations. Additionally, the cost and complexity of implementation outweighs the benefits.	No
			Dedicated equipment and personnel, living locally and on short notice to mobilise. The cost would be approx. A\$1 million per annum, which is disproportionate to the incremental benefit this would provide, assets are		
			already available on day 1. 2 integrated fleet vessels are available from day 1; however, these could be tasked with other operations.		

Selected control measures

Following review of alternative, additional and improved control measures as outlined above, the following controls were selected for implementation for the activity.

- Alternative
 - None selected
- Additional
 - None selected
- Improved
 - None selected

6.2 Source Control via Vessel SOPEP - ALARP Assessment

Alternative, Additional and Improved options have been assessed against the base capability described in Section 5 with those that have been selected for implementation highlighted in green. Items highlighted in red have been considered and rejected on the basis that they are not feasible, the costs are disproportionate to the environmental benefit, and/or the option is not reasonably practical. Control measures where there is not a clear justification for their inclusion or exclusion may be subject to a detailed ALARP assessment.

6.2.1 Source Control via Vessel SOPEP - Control Measure Options Analysis

6.2.1.1 Alternative control measures

Alternative Control Measures considered Alternative, including potentially more effective and/or novel control measures are evaluated as replacements for an adopted control							
Option considered	Environmental consideration	Feasibility	Approx. Cost	Implemented			
No reasonably practical alternative control measures identified.							

6.2.1.2 Additional Control Measures

Additional Control Measures considered Additional control measures are evaluated in terms of them reducing an environmental impact or an environmental risk when added to the existing suite of control measures						
Option considered	Environmental consideration	Feasibility	Approx. Cost	Implemented		
No reasonably practical al	Iternative control measures identified.			N/A		

6.2.1.3 Improved Control Measures

Improved Control Measures considered Improved control measures are evaluated for improvements they could bring to the effectiveness of adopted control measures in terms of functionality, availability, reliability, survivability, independence and compatibility						
Option considered	Environmental consideration	Feasibility	Approx. Cost	Implemented		
No reasonably practical a	alternative control measures identified.			N/A		

6.2.1.4 Selected control measures

Following review of alternative, additional and improved control measures, the following controls were selected for implementation for the activity.

- Alternative
 - None selected
- Additional
 - None selected
- Improved
 - None selected

6.3 Oiled wildlife response - ALARP assessment

Alternative, Additional and Improved options have been identified and assessed against the base capability described in Section 5 with those that have been selected for implementation highlighted in green. Items highlighted in red have been considered and rejected on the basis that they are not feasible, the costs are clearly disproportionate to the environmental benefit, and/or the option is not reasonably practical. Control measures where there is not a clear justification for their inclusion or exclusion may be subject to a detailed ALARP assessment.

6.3.1 Existing capability – wildlife response

Woodside's existing level of capability is based on internal and third-party resources that are available 24 hours, 7 days per week. The capability presented below is displayed as ranges to incorporate operational factors such as weather, crew/vessel/aircraft/vehicle location and duties, survey or classification society inspection requirements, overflight/port/quarantine permits and inspections, crew/pilot duty and fatigue hours, re-fuelling/re-stocking provisions, and other similar logistic and operational limitation that are beyond Woodside's direct control.

6.3.2 Wildlife response – control measure options analysis

6.3.2.1 Alternative control measures

	Alternative Control Measures considered Alternative, including potentially more effective and/or novel control measures are evaluated as replacements for an adopted control						
Option considered	Environmental consideration	Feasibility	Approximate Cost	Assessment conclusions	Implemented		
Direct contracts with service providers	This option duplicates the capability accessed through AMOSC and OSRL and would compete for the same resources. Does not provide a significant increase in environmental benefit.	These delivery options provide increased effectiveness through more direct communication and control of specialists. However, no significant net benefit is anticipated.	Duplication of capability – already subscribed to through contracts with AMOSC and OSRL	This option is not adopted as the existing capability meets the need.	No		

6.3.2.2 Additional control measures

Additional Control Measures considered Additional control measures are evaluated in terms of them reducing an environmental impact or an environmental risk when added to the existing suite of control measures							
Option considered	Environmental consideration	Feasibility	Approximate Cost	Assessment conclusions	Implemented		
Additional wildlife treatment systems	The selected delivery options provide access to call-off contracts with selected specialist providers. The agreements ensure these resources can be mobilised to meet the required response objectives, commensurate with the progressive nature of environmental impact and the time available to monitor hydrocarbon plume trajectories. Provides response equipment and personnel by Day 3. The additional cost in having a dedicated oiled wildlife response (equipment and personnel) in place is disproportionate to environmental benefit. These selected delivery options provide capacity to carry out an oiled wildlife response if contact is predicted and to scale up the response if required to treat widespread contamination. Current capability meets the needs required and there is no additional environmental benefit in adopting the improvements.	Although hydrocarbon contact above threshold concentrations with offshore waters is expected from day one, given the low likelihood of such an event occurring and the low environmental benefit of an offshore response, the cost of implementing measures to reduce the mobilisation time is considered disproportionate to the benefit. Additionally, the remote offshore location of the release site with no predicted contact of shoreline receptors provides sufficient opportunity for the ongoing monitoring and surveillance operations to inform the scale of the response. Numbers of oiled wildlife are expected to be low in the remote offshore setting of the oiled wildlife response, given the distance from known aggregation areas. Oiled wildlife response capacity would be addressed for open Commonwealth waters through the AMOSC arrangements, as informed by operational monitoring. The cost and organisational complexity of this approach is moderate, and the overall delivery effectiveness is high.	Additional wildlife response resources could total A\$1,700 per operational site per day.	This option is not adopted as the existing capability meets the need.	No		
Additional trained wildlife responders	Numbers of oiled wildlife are expected to be low in the remote offshore setting of the oiled wildlife response, given the distance from known aggregation areas. The potential environmental benefit of training additional personnel is expected to be low.	Current numbers meet the needs required and additional personnel are available through existing contracts with oil spill response organisations and environmental panel contractors. Additional equipment and facilities would be required to support ongoing response, depending on the scale of the event and the impact to wildlife and maybe sourced via existing contracts with OSROs. Materials for holding facilities, portable pools, enclosures and rehabilitation areas would be sourced as required.	Additional wildlife response personnel cost A\$2,000 per person per day.	This option is not adopted as the existing capability meets the need.	No		

6.3.2.3 Improved control measures

Option considered	Environmental consideration	Feasibility	Approximate Cost	Assessment conclusions	Implemented
Option considered	Environmental Consideration	reasibility	Approximate Cost	Assessment conclusions	impiementeu
-aster mobilisation ime for wildlife esponse.	Response time is limited by specialist personnel mobilisation time. Current timing is sufficient for expected first shoreline contact. This control measure provides increased effectiveness through faster mobilisation of specialists. However, no significant net environmental benefit is expected due to shoreline stranding times.	Pre-positioning vessels or equipment would reduce mobilisation time for oiled wildlife response activities. However, given the effectiveness of an oiled wildlife response is expected to be low, an earlier response would provide a marginal increase in environmental benefit.	Wildlife response packages to preposition at vulnerable sites identified through the deterministic modelling cost A\$700 per package per day. The cost of having dedicated equipment and personnel available to respond faster is considered disproportionate to the environmental benefit.	This option is not adopted as the existing capability meets the need.	No

6.3.3 Selected control measures

Following review of alternative, additional and improved control measures, the following controls were selected for implementation for the activity.

- Alternative
 - None selected
- Additional
 - None selected
- Improved
 - None selected

6.4 Waste management - ALARP assessment

Alternative, Additional and Improved options have been identified and assessed against the base capability described in Section 5 with those that have been selected for implementation highlighted in green. Items highlighted in red have been considered and rejected on the basis that they are not feasible, the costs are clearly disproportionate to the environmental benefit, and/or the option is not reasonably practical. Control measures where there is not a clear justification for their inclusion or exclusion may be subject to a detailed ALARP assessment.

6.4.1 Existing capability – waste management

Woodside's existing level of capability is based on internal and third-party resources that are available 24 hours, 7 days per week. The capability presented below is displayed as ranges to incorporate operational factors such as weather, crew/vessel/aircraft/vehicle location and duties, survey or classification society inspection requirements, overflight/port/quarantine permits and inspections, crew/pilot duty and fatigue hours, re-fuelling/re-stocking provisions, and other similar logistic and operational limitation that are beyond Woodside's direct control.

6.4.2 Waste management – control measure options analysis

6.4.2.1 Alternative control measures

Alternative Control Measures considered Alternative, including potentially more effective and/or novel control measures are evaluated as replacements for an adopted control							
Option considered	Environmental consideration	Feasibility	Approximate Cost	Assessment conclusions	Implemented		
No reasonably practical	No reasonably practical alternative control measures identified.						

6.4.2.2 Additional control measures

Option considered	Environmental consideration	Feasibility	Approximate Cost	Assessment conclusions	Implemented
Increased waste storage capability	The procurement of waste storage equipment options on the day of the event will allow immediate response and storage of collected waste. The environmental benefit of immediate waste storage is to reduce ecological consequence by safely securing waste, allowing continuous response operations to occur.	Access to Veolia's storage options provides the resources required to store and transport sufficient waste to meet the need. Access to waste contractors existing facilities enables waste to be stockpiled and gradually processed within the regional waste handling facilities. Additional temporary storage equipment is available through existing third-party contracts and arrangements with OSRL. Existing arrangements meet identified need for the activity.	Cost for increased waste disposal capability would be approximately A\$1,300 per m³. Cost for increased onshore temporary waste storage capability would be approximately A\$40 per unit per day.	This option is not adopted as the existing capability meets the need.	No

6.4.2.3 Improved control measures

Improved Control Measures considered Improved control measures are evaluated for improvements they could bring to the effectiveness of adopted control measures in terms of functionality, availability, reliability, survivability, independence and compatibility								
Option considered	Environmental consideration	Feasibility	Approximate Cost	Assessment conclusions	Implemented			
Faster response	The environmental benefit from successful waste storage will reduce pressure on the treatment and disposal facilities reducing ecological consequences by safely securing waste. In addition, waste storage and transport will allow continuous response operations to occur. This delivery option would increase known available storage, eliminating the risk of additional resources not being available at the time of the event. However, the environmental benefit of Woodside procuring additional waste storage is considered minor as the risk of additional storage not being available at the time of the event is considered low and existing arrangements provide adequate storage to support the response.	The credible scenario for this activity does not predict any shoreline impact and at-sea response is not appropriate for a spill of Marine Diesel thus waste storage needs will be minimal. Woodside already maintains an equipment stockpile in Exmouth to enable shorter response times to incidents. This stockpile includes temporary waste storage equipment. Woodside has access to stockpiles of waste storage and equipment in Dampier and Exmouth through existing contracts and arrangements.	The incremental benefit of having a dedicated local Woodside owned stockpile of waste equipment and transport is considered minor and cost is considered disproportionate to the benefit gained given there is no predicted shoreline impact.	This option is not adopted as the existing capability meets the need.	No			

6.4.3 Selected control measures

Following review of alternative, additional and improved control measures, the following controls were selected for implementation for the activity.

- Alternative
 - None selected
- Additional
 - None selected
- Improved
 - None selected

6.5 Scientific Monitoring - ALARP Assessment

Alternative, Additional and Improved options have been identified and assessed against the base capability described in Section 5 with those that have been selected for implementation highlighted in green. Items highlighted in red have been considered and rejected on the basis that they are not feasible, the costs are clearly disproportionate to the environmental benefit, and/or the option is not reasonably practical. Control measures where there is not a clear justification for their inclusion or exclusion may be subject to a detailed ALARP assessment.

6.5.1 Existing Capability – Scientific Monitoring

Woodside's existing level of capability is based on internal and third-party resources that are available 24 hours, 7 days per week. The capability presented below is displayed as ranges to incorporate operational factors such as weather, crew/vessel/aircraft/vehicle location and duties, survey or classification society inspection requirements, overflight/port/quarantine permits and inspections, crew/pilot duty and fatigue hours, re-fuelling/re-stocking provisions, and other similar logistic and operational limitations that are beyond Woodside's direct control.

6.5.2 Scientific Monitoring – Control Measure Options Analysis

	tive Control Measures ive, including potentiall Control Measure Category		el control measure Implemented	es are evaluated as replacements for an adopted control Environmental Consideration	Feasibility / Cost		
SM01	System	Analytical laboratory facilities closer to the likely spill affected area	No	SM01 water quality monitoring requires water samples to be transported to National Association of Testing Authorities (NATA) rated laboratories in Perth or interstate. Consider the benefit of laboratory access and transportation times to deliver water samples and complete lab analysis. There is a time lag from collection of water samples to being in receipt of results and confirming hydrocarbon contact to sensitive receptors). The environmental consideration of having access to suitable laboratory facilities in Exmouth or Karratha to carry out the hydrocarbon analysis would provide faster turnaround in reporting of results only by a matter of days (as per the time to transport samples to laboratories).	Laboratory facilities and staff available at locations closer to the spill affected area can reduce reporting times only to a moderate degree (days) with associated high costs of maintaining capability do not improve the environmental benefit.		
SM01	System	Dedicated contracted SMP vessel (exclusive to Woodside)	No	Would provide faster mobilisation time of scientific monitoring resources, environmental benefit associated with faster mobilisation time would be minor compared to selected options.	Chartering and equipping additional vessels on standby for scientific monitoring has been considered. The option is reasonably practicable but the sacrifice (charter costs and organisational complexity) is significant, particularly when compared with the anticipated availability of vessels and resources within in the required timeframes. The selected delivery provides capability to meet the scientific monitoring objectives, including collection of pre-emptive data where baseline knowledge gaps are identified for receptor locations where spill predictions of time to contact are >10 days. The effectiveness of this alternative control (weather dependency, availability and survivability) is rated as very low The cost and organisational complexity of employing a dedicated response vessel is considered disproportionate to the potential environmental benefit by adopting these delivery options.		

	Additional Control Measures considered Additional control measures are evaluated in terms of them reducing an environmental impact or an environmental risk when added to the existing suite of control measures								
Ref	Control Measure Category	Option considered	Implemented	Environmental Consideration	Feasibility / Cost				
SM01	System	Determine baseline data needs and provide implementation plan in the event of an	rovide data as spill expands in the event of a loss of well containment from the PAP activities.	hydrocarbon contact (above environment threshold) <10 days and acquiring pre- emptive data in the event of a loss of well containment from the PAP activities be on receptors predicted to have hydrocarbon contact >10 days. Ensure there is appropriate baseline for key receptors for all geographic location					
					are potentially impacted <10 days of spill event, where practicable. Address resourcing needs to collect pre-emptive baseline as spill expands in the event of a loss of well containment from the activities.				

6.5.3 Improved Control Measures

Improved Control Measures considered – No reasonably practicable improved Control Measures identified.

6.5.4 Selected Control Measures

Following review of alternative, additional and improved control measures as outlined above, the following controls were selected for implementation for the PAP.

- Alternative
 - None selected
- Additional
 - Determine baseline data needs and activate SMPs for any identified PBAs in the event of an unplanned hydrocarbon release
- Improved
 - None selected

6.5.5 Operational Plan

Key actions from the Scientific Monitoring Program Operational Plan for implementing the response are outlined in **Table 6-1**.

Table 6-1: Scientific monitoring program operational plan actions

Responsibility	Action				
Activation					
CIMT Planning	Mobilise SMP Lead/Manager and SMP Coordinator to the CIMT Planning Section .				
(CIMT Planning – Environment Unit)					
CIMT Planning	Constantly assess all outputs from OM01, OM02 and OM03 (Section 5 and				
(CIMT Planning – Environment Unit)	ANNEX B: Operational Monitoring Activation and Termination Criteria) to determine receptor locations and receptors at risk. Confirm sensitive receptors likely to be exposed to hydrocarbons, timeframes to specific				
(SMP Lead/Manager	receptor locations and which SMPs are triggered.				
and SMP Coordinator)	Review baseline data for receptors at risk.				
CIMT Planning	SMP co-ordinator stands up the SMP contractor.				
(CIMT Planning – Environment Unit)	Stands up subject matter experts, if required.				
(SMP Lead/Manager and SMP Coordinator)					
CIMT Planning	Establish if, and where, pre-contact baseline data acquisition is required.				
(CIMT Planning – Environment Unit)	Determine practicable baseline acquisition program based on predicted timescales to contact and anticipated SMP mobilisation times.				
(SMP Lead/Manager SMP Coordinator,	Determine scope for preliminary post-contact surveys during the Response Phase.				
SMP standby contractor SMP manager)	Determine which SMP activities are required at each location based on the identified receptor sensitivities.				
CIMT Planning	If response phase data acquisition is required, stand up the contractor SMP teams for data acquisition and instruct them to standby awaiting further details for mobilisation from the CIMT.				

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Responsibility	Action				
(CIMT Planning – Environment Unit)	Action				
(SMP Lead/Manager, SMP Coordinator, SMP standby contractor SMP manager)					
CIMT Planning	SMP contractor, SMP standby contractor to prepare the Field				
(CIMT Planning – Environment Unit)	Implementation Plan. Prepare and obtain sign-off of the Response Phase SMP work plan and				
(SMP Lead/Manager,	Field Implementation Plan.				
SMP Coordinator, SMP standby contactor SMP manager)	Update the IAP.				
CIMT Planning	Liaise with CIMT Logistics, and determine the status and availability of				
(CIMT Planning – Environment Unit)	aircraft, vessels and road transportation available to transport survey personnel and equipment to point of departure.				
(SMP Lead/Manager, SMP Coordinator SMP standby contactor	Engage with SMP standby contactor SMP Manager and CIMT Logistics to establish mobilisation plan, secure logistics resources and establish ongoing logistical support operations, including:				
SMP manager)	Vessels, vehicles and other logistics resources				
	Vessel fit-out specifications (as				
	Detailed in the Scientific Monitoring Program Operational Plan				
	Equipment storage and pick-up locations				
	Personnel pick-up/airport departure locations				
	Ports of departure				
	 Land based operational centres and forward operations bases Accommodation and food requirements. 				
CIMT Planning	Confirm communications procedures between Woodside SMP team, SMP				
(CIMT Planning – Environment Unit)	contractor SMP Duty Manager, SMP Team Leads and Operations Coordinator (CIMT).				
(SMP Lead/Manager, SMP Coordinator, SMP standby contactor (SMP manager)					
Mobilisation					
CIMT Logistics	Engage vessels and vehicles and arrange fitting out as specified by the mobilisation Plan Confirm vessel departure windows and communicate with the SMP contractor SMP Duty Manager.				
	Agree SMP mobilisation timeline and induction procedures with the Operations Coordinator (CIMT).				
CIMT Logistics	Coordinate with SMP contactor SMP Duty Manager to mobilise teams and equipment according to the logistics plan and Sector induction procedures.				

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Responsibility	Action
SMP Survey Team Leads	SMP Survey Team Leader(s) coordinate on-ground/on-vessel mobilisations and support services with the Operations Coordinator (CIMT).

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6.5.6 ALARP and Acceptability Summary

	ALARP and Acceptability Summary					
Scientific Monitoring						
ALARP Summary	X All known reasonably practicable control measures have been adopted					
Summary	X Additional Measures: Determine baseline data needs and activate SMPs for any identified PBAs in the event of an unplanned hydrocarbon release					
	No reasonably practical additional, alternative, and/or improved control measure exists					
	The resulting scientific monitoring capability has been assessed against the worst-case credible spill scenarios. The range of strategies provide an ongoing approach to monitoring operations to assess and evaluate the scale and extent of impacts.					
	All known reasonably practicable control measures have been adopted with the cost and organisational complexity of these options determined to be Moderate and the overall delivery effectiveness considered Medium. The SMP's main objectives can be met, with the addition of one alternative control measures to provide further benefit.					
Acceptability Summary	The control measures selected for implementation manage the potential impacts and risks to ALARP.					
	 In the event of a hydrocarbon spill for the PAP, the control measures selected, mee exceed the requirements of Woodside Management System and industry best- practice. 					
	Throughout the PAP, relevant Australian standards and codes of practice will be followed to evaluate the impacts from an unplanned hydrocarbon release.					
	 The level of impact and risk to the environment has been considered with regard to the principles of Environmentally Sustainable Development (ESD); and risks and impacts from a range of identified scenarios were assessed in detail. The control measures described consider the conservation of biological and ecological diversity, through both the selection of control measures and the management of their performance. The control measures have been developed to account for the worst-case credible case scenario, and uncertainty has not been used as a reason for postponing control measures. 					

On the basis from the ALARP impact assessment above and in Section 6 of the EP Woodside considers the adopted controls discussed, manage the impacts and risks associated with implementing scientific monitoring activities to a level that is ALARP and acceptable.

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7 ENVIRONMENTAL RISK ASSESSMENT OF SELECTED RESPONSE TECHNIQUES

The implementation of response techniques may modify the impacts and risks identified in the EP and response activities can introduce additional impacts and risks from response operations themselves. Therefore, it is necessary to complete an assessment to ensure these impacts and risks have been considered and specific measures are put in place to continually review and manage these further impacts and risks to ALARP and Acceptable levels. A simplified assessment process has been used to complete this task which covers the identification, analysis, evaluation and treatment of impacts and risks introduced by responding to the event.

7.1 Identification of impacts and risks from implementing response techniques

Each of the control measures can modify the impacts and risks identified in the EP. These impacts and risks have been previously assessed within the scope of the EP. Refer to the EP for details regarding how these risks are being managed. They are not discussed further in this document.

- Atmospheric emissions
- Routine and non-routine discharges
- Physical presence, proximity to other vessels (shipping and fisheries)
- Routine acoustic emissions vessels
- Lighting for night work/navigational safety
- Invasive marine species
- Collision with marine fauna
- Disturbance to Seabed

Additional impacts and risks associated with the control measures not included within the scope of the EP include:

- Vessel operations and anchoring
- · Additional stress or injury caused to wildlife
- Waste generation

7.2 Analysis of impacts and risks from implementing response techniques

The table below compares the adopted control measures for this activity against the environmental values that can be affected when they are implemented.

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Table 7-1: Analysis of risks and impacts

	Environmental Value						
	Soil and Groundwater	Marine Sediment Quality	Water Quality	Air Quality	Ecosystems/ Habitat	Species	Socio- Economic
Monitor and evaluate		✓	✓		✓	✓	
Source control		✓	✓	✓	✓	✓	✓
Oiled Wildlife					✓	✓	
Scientific Monitoring		✓	✓		✓	✓	✓
Waste Management	✓			✓	✓	√	✓

7.3 Evaluation of impacts and risks from implementing response techniques

7.3.1 Vessel operations

During the implementation of response techniques, where water depths allow, it is possible that response vessels will be required to anchor (e.g. during shoreline surveys). The use of vessel anchoring will be minimal and likely to occur when the impacted shoreline is inaccessible via road. Anchoring in the nearshore environment of sensitive receptor locations will have the potential to impact coral reef, seagrass beds and other benthic communities in these areas. Recovery of benthic communities from anchor damage depends on the size of anchor and frequency of anchoring. Impacts would be highly localised (restricted to the footprint of the vessel anchor and chain) and temporary, with full recovery expected.

7.3.2 Additional stress or injury caused to wildlife

Additional stress or injury to wildlife could be caused through the following phases of a response:

- Capturing wildlife
- Transporting wildlife
- Stabilisation of wildlife
- Cleaning and rinsing of oiled wildlife
- Rehabilitation (e.g. diet, cage size, housing density)
- · Release of treated wildlife

Inefficient capture techniques have the potential to cause undue stress, exhaustion or injury to wildlife, additionally pre-emptive capture could cause undue stress and impacts to wildlife when there are uncertainties in the forecast trajectory of the spill. During the transportation and stabilisation phases there is the potential for additional thermoregulation stress on captured wildlife. Additionally, during the cleaning process, it is important personnel undertaking the tasks are familiar with the relevant techniques to ensure that further injury and the removal of water proofing feathers are managed and mitigated. Finally, during the release phase it's important that wildlife is not released back into a contaminated environment.

7.3.3 Waste generation

Implementing the selected response techniques will result in the generation of the following waste streams that will require management and disposal:

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- Liquids (recovered oil/water mixture), recovered from oiled wildlife response operations
- Semi-solids/solids (oily solids), collected during oiled wildlife response operations
- Debris collected during oiled wildlife response.

If not managed and disposed of correctly, wastes generated during the response have the potential for secondary contamination, impacts to wildlife through contact with or ingestion of waste materials and contamination risks if not disposed of correctly onshore.

7.4 Treatment of impacts and risks from implementing response techniques

In respect of the impacts and risks assessed the following treatment measures have been adopted. It must be recognised that this environmental assessment is seeking to identify how to maintain the level of impact and risks at levels that are ALARP and of an acceptable level rather than exploring further impact and risk reduction. It is for this reason that the treatment measures identified in this assessment will be captured in Operational Plans, Tactical Response Plans, and/or First Strike Plans.

7.4.1 Vessel operations and access to the nearshore environment

• If vessels are required for access, anchoring locations will be selected to minimise disturbance to benthic habitats. Where existing fixed anchoring points are not available, locations will be selected to minimise impact to nearshore benthic environments with a preference for areas of sandy seabed where they can be identified (Performance Standard (PS) 7.1).

7.4.2 Additional stress or injury caused to wildlife

 Oiled wildlife operations (including hazing) would be implemented with advice and assistance from the Oiled Wildlife Advisor from the DBCA, and in accordance with the processes and methodologies described in the WA OWRP and the relevant regional plan (PS 11.1).

7.4.3 Waste generation

 All oiled wildlife response sites zoned and marked before operations commence to prevent secondary contamination and minimise the mixing of clean and oiled waste (PS 13.1).

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8 ALARP CONCLUSION

An analysis of alternative, additional and improved control measures has been undertaken to determine their reasonableness and practicability. The tables in **Section 6** document the considerations made in this evaluation. Where the costs of an alternative, additional, or improved control measure have been determined to be clearly disproportionate to the environmental benefit gained from its adoption it has been rejected. Where this is not considered to be the case the control measure has been adopted.

The risks from a hydrocarbon spill have been reduced to ALARP because:

- Woodside has a significant hydrocarbon spill response capability to respond to the WCCS through the control measures identified.
- New and modified impacts and risks associated with implementing response techniques have been considered and will not increase the risks associated with the activity.
- A consideration of alternative, additional, and improved control measures identified any other control measures that delivered proportionate environmental benefit compared to the cost of adoption for this activity ensuring that:
 - All known, reasonably practicable control measures have been adopted.
 - No additional, reasonably practicable alternative and/or improved control measures would provide further environmental benefit.
 - No reasonably practical additional, alternative, and/or improved control measure exists.
- A structured process for considering alternative, additional, and improved control measures was completed for each control measure.
- The evaluation was undertaken based on the outputs of the WCCS so that the capability in place is sufficient for all other scenario from this activity.
- The likelihood of the WCCS spill has been ignored in evaluating what was reasonably practicable.

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9 ACCEPTABILITY CONCLUSION

Following the ALARP evaluation process, Woodside deems the hydrocarbon spill risks and impacts have been reduced to an acceptable level by meeting all of the following criteria:

- Techniques are consistent with Woodside's processes and relevant internal requirements including policies, culture, processes, standards, structures and systems.
- Levels of risk/ impact are deemed acceptable by relevant persons (external persons/ organisations) and are aligned with the uniqueness of, and/or the level of protection assigned to the environment, its sensitivity to pressures introduced by the activity, and the proximity of activities to sensitive receptors, and have been aligned with Part 3 of the EPBC Act.
- Selected control measures meet requirements of legislation and conventions to which Australia is a signatory (e.g. MARPOL, the World Heritage Convention, the Ramsar Convention, and the Biodiversity Convention etc.). In addition to these, other nonlegislative requirements met include:
 - Australian IUCN reserve management principles for Commonwealth marine protected areas and bioregional marine plans.
 - National Water Quality Management Strategy and supporting guidelines for marine water quality).
 - Conditions of approval set under other legislation.
 - National and international requirements for managing pollution from ships.
 - National biosecurity requirements.
- Industry standards, best practices and widely adopted standards and other published
 materials have been used and referenced when defining acceptable levels. Where
 these are inconsistent with mandatory/ legislative regulations, explanation has been
 provided for the proposed deviation. Any deviation produces the same or a better level
 of environmental performance (or outcome).

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11 GLOSSARY AND ABBREVIATIONS

11.1 Glossary

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Term	Description / Definition
ALARP	Demonstration through reasoned and supported arguments that there are no other practicable options that could reasonably be adopted to reduce risks further.
Availability	The availability of a control measure is the percentage of time that it is capable of performing its function (operating time plus standby time) divided by the total period (whether in service or not). In other words, it is the probability that the control has not failed or is undergoing a maintenance or repair function when it needs to be used.
Control	The means by which risk from events is eliminated or minimised.
Control effectiveness	A measure of how well the control measures perform their required function.
Control measure (risk control measure)	The features that eliminate, prevent, reduce or mitigate the risk to environment associated with PAP.
Credible spill scenario	A spill considered by Woodside as representative of maximum volume and characteristics of a spill that could occur as part of the PAP.
Dependency	The degree of reliance on other systems in order for the control measure to be able to perform its intended function.
Environment that may be affected	The summary of quantitative modelling where the marine environment could be exposed to hydrocarbons levels exceeding hydrocarbon threshold concentrations.
Incident	An event where a release of energy resulted in or had (with) the potential to cause injury, ill health, damage to the environment, damage to equipment or assets or company reputation.
Performance outcome	A statement of the overall goal or outcome to be achieved by a control measure
Performance standard	The parameters against which [risk] controls are assessed to ensure they reduce risk to ALARP.
	A statement of the key requirements (indicators) that the control measure has to achieve in order to perform as intended in relation to its functionality, availability, reliability, survivability and dependencies.
Preparedness	Measures taken before an incident in order to improve the effectiveness of a response
Reasonably practicable	a computation made by the owner, in which the quantum of risk is placed on one scale and the sacrifice involved in the measures necessary for averting the risk (whether in money, time or trouble) [showing whether or not] that there is a gross disproportion between them made by the owner at a point of time anterior to the accident. (Judgement: Edwards v National Coal Board [1949])
Receptors at risk	Physical, biological and social resources identified as at risk from hydrocarbon contact using oil spill modelling predictions.
Receptor areas	Geographically referenced areas such as bays, islands, coastlines and/or protected area (WHA, Commonwealth or State marine reserve or park) containing one or more receptor type, e.g., Gascoyne AMP.

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Term	Description / Definition
Receptor Sensitivities	This is a classification scheme to categorise receptor sensitivity to an oil spill. The Environmental Sensitivity Index (ESI) is a numerical classification of the relative sensitivity of a particular environment (particularly different shoreline types) to an oil spill. Refer to the Woodside Oil Pollution Emergency Arrangements (Australia) for more details.
Regulator	NOPSEMA are the Environment Regulator under the Environment Regulations.
Reliability	The probability that at any point in time a control measure will operate correctly for a further specified length of time.
Response technique	The key priorities and objectives to be achieved by the response plan. Measures taken in response to an event to reduce or prevent adverse consequences.
Survivability	Whether or not a control measure is able to survive a potentially damaging event is relevant for all control measures that are required to function after an incident has occurred.
Threshold	Hydrocarbon threshold concentrations applied to the risk assessment to evaluate hydrocarbon spills. These are defined as: surface hydrocarbon concentration – ≥10 g/m², dissolved – ≥50 ppb and entrained hydrocarbon concentrations – ≥100 ppb.

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11.2 Abbreviations

Abbreviation	Meaning			
ADIOS	Automated Data Inquiry for Oil Spills			
AIIMS	Australasian Inter-Service Incident Management System			
ALARP	As low as reasonably practicable			
AMOSC	Australian Marine Oil Spill Centre			
AMP	ustralian Marine Park			
AMSA	Australian Maritime Safety Authority			
APASA	Asia Pacific ASA			
BAOAC	Bonn Agreement Oil Appearance Code			
CIMT	Corporate Incident Management Team			
DM	Duty Manager			
DoT	Western Australia Department of Transport			
DBCA	Western Australia Department of Biodiversity, Conservation and Attractions (former Western Australian Department of Parks and Wildlife)			
EMBA	Environment that May Be Affected			
EP	Environment Plan			
Environment Regulations	Offshore Petroleum and Greenhouse Gas Storage (Environment) Regulations 2009			
ESI	Environmental Sensitivity Index			
ESD	Ecologically Sustainable Development			
ESP	Environmental Services Panel			
FSP	First Strike Plan			
GIS	Geographic Information System			
GPS	Global Positioning System			
HSP	Hydrocarbon Spill Preparedness			
IAP	Incident Action Plan			
IC	Incident Commander			
IMT	Incident Management Team			
IPIECA	International Petroleum Industry Environment Conservation Association			
ITOPF	International Tanker Owners Pollution Federation			
IUCN	International Union for Conservation of Nature			
KBSF	King Bay Supply Facility			
KIMC	Karratha Incident Management Centre			
KSAT	Kongsberg Satellite			
ME	Monitor and Evaluate			
MoU	Memorandum of Understanding			
NEBA	Net Environmental Benefit Analysis			

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Abbreviation	Meaning			
NOAA	National Oceanic and Atmospheric Administration			
NRT	National Response Team			
OILMAP	Oil Spill Model and Response System			
OPEA	Oil Pollution Emergency Arrangements			
OPEP	Dil Pollution Emergency Plan			
OPGGSA	Offshore Petroleum and Greenhouse Gas Storage Act			
OSMP	Operational and Scientific Monitoring Program			
OSRL	Oil Spill Response Limited			
OSTM	Oil Spill Trajectory Modelling			
OWR	Oiled Wildlife Response			
OWRP	Oiled Wildlife Response Plan			
OWROP	Regional Oiled Wildlife Response Operational Plan			
PAP	Petroleum Activities Program			
PBA	Pre-emptive Baseline Areas			
PPA	Priority Protection Area			
PPB	Parts per billion			
PPM	Parts per million			
PS	Performance standard			
RPA	Response Protection Area			
SIMAP	Integrated Oil Spill Impact Model System			
SMP	Scientific monitoring program			
SOP	Standard Operating Procedure			
TRP	Tactical Response Plan			
WHA	World Heritage Area			
Woodside	Woodside Energy Limited			
WCC	Woodside Communication Centre			
WCCS	Worst Case Credible Scenario			

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ANNEX A: NET ENVIRONMENTAL BENEFIT ANALYSIS DETAILED OUTCOMES

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A NEBA has been conducted to assess the net environmental benefit of different response techniques to selected receptors in the event of an oil spill from the PAP for marine diesel. The complete list of potential receptor locations within the EMBA for the PAP is included in Section 6 of the EP.

The NEBA was conducted for open Commonwealth waters and the Gascoyne AMP (identified as an RPA). The EMBA was not predicted by modelling to overlap any RPAs above the surface threshold of 50 g/m² or the shoreline accumulation threshold of 100 g/m². However, the Gascoyne AMP was predicted to be contacted by hydrocarbons above the entrained threshold of 100 ppb (prior to day 14).

The detailed NEBA assessment outcomes are shown below.

The full NEBA assessments are available here (Link).

Table A-1: NEBA assessment technique recommendations for a surface release due to a vessel tank rupture of marine diesel (Credible Scenario-01)

Receptor	Monitor and Evaluate	Containment and Recovery	Dispersant application: > 20 m water depth and > 10 km from shore/reefs	Shoreline protection	Shoreline clean-up (manual)	Shoreline clean-up (mechanical)	Shoreline clean-up (chemical)	Oiled Wildlife Response	In situ burning	Mechanical dispersion	Source Control
Open Commonwealth waters (Operational Area)	Yes	No	No	No	No	No	No	Yes	No	No	Yes
Gascoyne AMP	Yes	No	No	No	No	No	No	Yes	No	No	Yes

Overall assessment

Sensitive receptor (Sites identified in EP)	Monitor and Evaluate	Containment and Recovery	Dispersant application: > 20 m water depth and > 10 km from shore/reefs	Shoreline protection	Shoreline clean-up (manual)	Shoreline clean-up (mechanical)	Shoreline clean-up (chemical)	Oiled Wildlife Response	In situ burning	Mechanical dispersion	Source Control
Is this response Practicable?	Yes	No	No	No	No	No	No	Yes	No	No	Yes
NEBA identifies Response potentially of Net Environmental Benefit?	Yes	No	No	No	No	No	No	Yes	No	No	Yes

NEBA Impact Ranking Classification Guidance

To reduce variability between assessments, the following ranking descriptions have been devised to guide the workshop process:

			Degree of impact ⁸	Potential duration of impact	Equivalent Woodside Corporate Risk Matrix Consequence Level
	3P	Major	Likely to prevent: behavioural impact to biological receptors behavioural impact to socio-economic receptors e.g. changes to day-today business operations, public opinion/behaviours (e.g. avoidance of amenities such as beaches) or regulatory designations.	Decrease in duration of impact by > 5 years	N/A
Positive	2P	Moderate	Likely to prevent: significant impact to a single phase of reproductive cycle of biological receptors detectable financial impact, either directly (e.g. loss of income) or indirectly (e.g. via public perception), for socioeconomic receptors.	N/A	
	1P Minor		Likely to prevent impacts on: significant proportion of population or breeding stages of biological receptors socio-economic receptors such as: significant impact to the sensitivity of protective designation; or significant and long-term impact to business/industry. 	Decrease in duration of impact by several seasons (< 1 year)	N/A
	0	Non-mitigated spill impact	No detectable difference to unmitigated spill scenario.		
	1N	Minor	Likely to result in: behavioural impact to biological receptors behavioural impact to socio-economic receptors e.g. changes to day-to-day business operations, public opinion/behaviours (e.g. avoidance of amenities such as beaches), or regulatory designations.	Increase in duration of impact by several seasons (< 1 year)	Increase in risk by one sub-category, without changing category (e.g. Minor (E) to Minor (D))
Negative	2N	Moderate	Likely to result in: significant impact to a single phase of reproductive cycle for biological receptors; or detectable financial impact, either directly (e.g. loss of income) or indirectly (e.g. via public perception), for socioeconomic receptors. This level of negative impact is recoverable and unlikely to result in closure of business/industry in the region.	Increase in duration of impact by 1–5 years	Increase in risk by one category (e.g. Minor (D) to Moderate (C or B))
	3N	Major	Likely to result in impacts on: • significant proportion of population or breeding stages of biological receptors • socio-economic receptors resulting in either: • significant impact to the sensitivity of protective designation; or • significant and long-term impact to business/industry.	Increase in duration of impact by > 5 years or unrecoverable	Increase in risk by two categories (e.g. Minor (E) to Major (A))

⁸ The maximum likely impact should be considered; for example, if a spill were to directly impact the behaviour that results in an impact to reproduction and/or the breeding population (such as fish failing to aggregate to spawn), then the score should be a 2 or 3 rather than a 1. Similarly, if a change in behaviour resulted in an increased risk of mortality of a population, then it should be scored as a 2 or 3.

ANNEX B: OPERATIONAL MONITORING ACTIVATION AND TERMINATION CRITERIA

Table B-1: Operational monitoring objectives, triggers and termination criteria

Table 2 II operat	cional monitoring objectives, triggers and tel	mination ontona	
Operational Monitoring Operational Plan	Objectives	Activation triggers	Termination criteria
Operational Monitoring Operational Plan 1 (OM01) Predictive Modelling of Hydrocarbons to Assess Resources at Risk	OM01 focuses on the conditions that have prevailed since a spill commenced, as well as those that are forecasted in the short term (1–3 days ahead) and longer term. OM01 utilises computer-based forecasting methods to predict hydrocarbon spill movement and guide the management and execution of spill response operations to maximise the protection of environmental resources at risk. The objectives of OM01 are to: Provide forecasting of the movement and weathering of spilled hydrocarbons Identify resources that are potentially at risk of contamination Provide simulations showing the outcome of alternative response options (booming patterns etc.) to inform on-going Net Environmental Benefit Analysis (NEBA) and continually assess the efficacy of available response options in order to reduce risks to ALARP	OM01 will be triggered immediately following a level 2/3 hydrocarbon spill.	The criteria for the termination of OM01 are: • The hydrocarbon discharge has ceased • Response activities have ceased • Hydrocarbon spill modelling (as verified by OM02 surveillance observations) predicts no additional natural resources will be impacted
Operational Monitoring Operational Plan 2 (OM02) Surveillance and reconnaissance to detect hydrocarbons and resources at risk	 OM02 aims to provide regular, on-going hydrocarbon spill surveillance throughout a broad region, in the event of a spill. The objectives of OM02 are: Verify spill modelling results and recalibrate spill trajectory models (OM01) Understand the behaviour, weathering and fate of surface hydrocarbons Identify environmental receptors and locations at risk or contaminated by hydrocarbons Inform ongoing Net Environmental Benefit Analysis (NEBA) and continually assess the efficacy of available response options in order to reduce risks to ALARP To aid in the subsequent assessment of the short- to long-term impacts and/or recovery of natural resources (assessed in SMPs) by ensuring that the visible cause and effect relationships between the hydrocarbon spill and its impacts to natural resources have been observed and recorded during the operational phase. 	OM02 will be triggered immediately following a level 2/3 hydrocarbon spill.	The termination triggers for the OM02 are: • 72 hours has elapsed since the last confirmed observation of surface hydrocarbons • Latest hydrocarbon spill modelling results (OM01) do not predict surface exposures at visible levels

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Operational Monitoring Operational Plan	Objectives	Activation triggers	Termination criteria
Operational Monitoring Operational Plan 3 (OM03) Monitoring of hydrocarbon presence, properties, behaviour and weathering in water	OM03 will measure surface, entrained and dissolved hydrocarbons in the water column to inform decision-making for spill response activities. The specific objectives of OM03 are as follows: • Detect and monitor for the presence, quantity, properties, behaviour and weathering of surface, entrained and dissolved hydrocarbons • Verify predictions made by OM01 and observations made by OM02 about the presence and extent of hydrocarbon contamination Data collected in OM03 will also be used for the purpose of longer-term water quality monitoring during SM01.	OM03 will be triggered immediately following a level 2/3 hydrocarbon spill.	The criteria for the termination of OM03 are as follows: • The hydrocarbon release has ceased • Response activities have ceased • Concentrations of hydrocarbons in the water are below available ANZECC/ARMCANZ (2000) trigger values for 99% species protection.
Operational Monitoring Operational Plan 4 (OM04) Pre-emptive assessment of sensitive receptors at risk	OM04 aims to undertake a rapid assessment of the presence, extent and current status of shoreline sensitive receptors prior to contact from the hydrocarbon spill, by providing categorical or semi-quantitative information on the characteristics of resources at risk. The primary objective of OM04 is to confirm understanding of the status and characteristics of environmental resources predicted by OM01 and OM02 to be at risk, to further assist in making decisions on the selection of appropriate response actions and prioritisation of resources. Indirectly, qualitative/semi-quantitative precontact information collected by OM04 on the status of environmental resources may also aid in the verification of environmental baseline data and provide context for the assessment of environmental impacts, as determined through subsequent SMPs.	Triggers for commencing OM04 include: Contact of a sensitive habitat or shoreline is predicted by OM01, OM02 and/or OM03 The preemptive assessment methods can be implemented before contact from hydrocarbons (once a receptor has been contacted by hydrocarbons it will be assessed under OM05)	The criteria for the termination of OM04 at any given location are: • Locations predicted to be contacted by hydrocarbons have been contacted • The location has not been contacted by hydrocarbons and is no longer predicted to be contacted by hydrocarbons (resources should be reallocated as appropriate)

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Operational Monitoring Operational Plan	Objectives	Activation triggers	Termination criteria
Operational monitoring operational plan 5 (OM05) Monitoring of contaminated resources	OM05 aims to implement surveys to assess the condition of fauna and habitats contacted by hydrocarbons at sensitive habitat and shoreline locations. The primary objectives of OM05 are: • Record evidence of oiled fauna (mortalities, sub-lethal impacts, number, extent, location) and habitats (mortalities, sub-lethal impacts, type, extent of cover, area, hydrocarbon character, thickness, mass and content) throughout the response and clean-up at locations contacted by hydrocarbons to inform and prioritise clean-up efforts and resources, while minimising the potential impacts of these activities. Indirectly, the information collected by OM05 may also support the assessment of environmental impacts, as determined through subsequent SMPs.	OM05 will be triggered when a sensitive habitat or shoreline is predicted to be contacted by hydrocarbons by OM01, OM02 and/or OM03.	The criteria for the termination of OM05 at any given location are: No additional response or clean-up of fauna or habitats is predicted Spill response and clean-up activities have ceased OM05 survey sites established at sensitive habitat and shoreline locations will continue to be monitored during SM02. The formal transition from OM05 to SM02 will begin on cessation of spill response and clean-up activities.

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ANNEX C: OIL SPILL SCIENTIFIC MONITORING PROGRAM

Oil Spill Environmental Monitoring

The following provides some further detail on Woodside's oil spill scientific monitoring Program and includes the following:

- The organisation, roles and responsibilities of the Woodside oil spill scientific monitoring team and external resourcing.
- A summary table of the ten scientific monitoring programs as per the specific focus receptor, objectives, activation triggers and termination criteria.
- Details on the oil spill environmental monitoring activation and termination decision-making processes.
- Baseline knowledge and environmental studies knowledge access via geo-spatial metadata databases.
- An outline of the reporting requirements for oil spill scientific monitoring programs.

Oil Spill Scientific Monitoring - Delivery Team Roles and Responsibilities

Woodside Oil Spill Scientific Monitoring Delivery Team

The Woodside science team are responsible for the delivery of the oil spill scientific monitoring. The roles and responsibilities of the Woodside scientific monitoring delivery team are presented in Table C-1 and the organisational structure and Corporate Incident Management Team (CIMT) linkage provided in Figure C-1.

Woodside Oil Spill Scientific monitoring program - External Resourcing

In the event of a Level 2 or 3 hydrocarbon release, or any release event with the potential to contact sensitive environmental receptors, scientific monitoring personnel and scientific equipment to implement the appropriate SMPs will be provided by SMP Standby contractor who hold a standby contract for SMP via the Woodside Environmental Services Panel (ESP). In the event that additional resources are required other consultancy capacity within the Woodside ESP will be utilised (as needed and may extend to specialist contractors such as research agencies engaged in long-term marine monitoring programs). In consultation with the SMP Standby Contractor and/or specialist contractors, the selection, field sampling and approach of the SMPs will be determined by the nature and scale of the spill.

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Table C-1: Woodside and Environmental Service Provider – Oil Spill Scientific Monitoring Program Delivery Team Key Roles and Responsibilities

Role	Location	Responsibility
Woodside Role	es	
SMP Lead/ Manager	Onshore	 Approves activated the SMPs based on operational monitoring data provided by the Planning Section Provides advice to the CIMT in relation to scientific monitoring Provides technical advice regarding the implementation of scientific monitoring Approves detailed sampling plans prepared for SMPs Directs liaison between statutory authorities, advisors and government agencies in relation to SMPs.
SMP Co- Ordinator	Onshore	 Activates the SMPs based on operational monitoring data provided by the Planning Section Sits in the Planning Section of the CIMT. Liaises with other CIMT Sections to deliver required logistics, resources and operational support from Woodside to support the Environmental Service Provider in delivering on the SMPs. Acts as the conduit for advice from the SMP Lead/Manager to the Environmental Service Provider Manages the Environmental Service Provider's implementation of the SMPs Liaises with the Environmental Service Provider on delivery of the SMPs Arranges all contractual matters, on behalf of Woodside, associated with the Environmental Service Provider's delivery of the SMPs.

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Environmental	Environmental Service Provider Roles					
SMP standby contractor: SMP Duty Manager/ Project Manager/ SMP Liaison Officer	Onshore	 Coordinates the delivery of the SMPs Provides costings, schedule and progress updates for delivery of SMPs Determines the structure of the Environmental Service Provider's team to necessitate delivery of the SMPs Verifies that HSE Plans, detailed sampling plans and other relevant deliverables are developed and implemented for delivery of the SMPs Directs field teams to deliver SMPs Arranges all contractual matters, on behalf of Environmental Service Provider, associated with the delivery of the SMPs to Woodside Manages sub-consultant delivery to Woodside Provides required personnel and equipment to deliver the SMPs 				
SMP Field Teams	Offshore – Monitoring Locations	 Delivers the SMPs in the field consistent with the detailed sampling plans and HSE requirements, within time and budget. Early communication of time, budget, HSE risks associated with delivery of the SMPs to the Environmental Service Provider – Project Manager Provides start up, progress and termination updates to the Environmental Service Provider – Project Manager (will be led in-field by a party chief). 				

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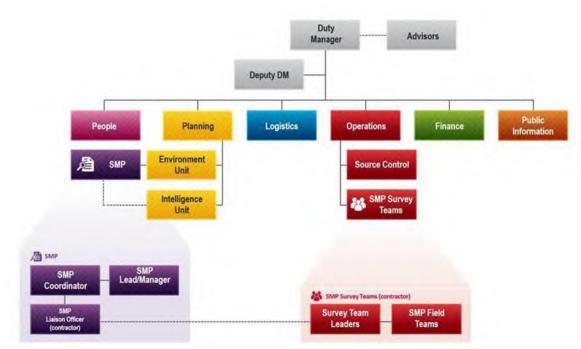


Figure C-1: Woodside Oil Spill Scientific Monitoring Program Delivery Team and Linkage to Corporate Incident Management Team (CIMT) organisational structure.

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Table C-2: Oil Spill Environmental Monitoring: Scientific Monitoring Program - Objectives, Activation Triggers and Termination Criteria

Scientific monitoring Program (SMP)	Objectives	Activation Triggers	Termination Criteria
Scientific monitoring program 1 (SM01) Assessment of Hydrocarbons in Marine Waters	 SM01 will detect and monitor the presence, extent, persistence and properties of hydrocarbons in marine waters following the spill and the response. The specific objectives of SM01 are as follows: Assess and document the extent, severity and persistence of hydrocarbon contamination with reference to observations made during surveillance activities and / or in-water measurements made during operational monitoring; and 	SM01 will be initiated in the event of a Level 2 or 3 hydrocarbon release, or any release event with the potential to contact sensitive environmental receptors	SM01 will be terminated when: Operational monitoring data relating to observations and / or measurements of hydrocarbons on and in water have been compiled, analysed and reported; and
	 Provide information that may be used to interpret potential cause and effect drivers for environmental impacts recorded for sensitive receptors monitored under other SMPs. 		 The report provides details of the extent, severity and persistence of hydrocarbons which can be used for analysis of impacts recorded for sensitive receptors monitored under other SMPs.
			SMP monitoring of sensitive receptor sites:
			 Concentrations of hydrocarbons in water samples are below NOPSEMA guidance note (2019⁹) concentrations of 1 g/m² for floating, 10 ppb for entrained and dissolved; and
			 Details of the extent, severity and persistence of hydrocarbons from concentrations recorded in water have been documented at sensitive receptor sites monitored under other SMPs.
Scientific monitoring program 2 (SM02) Assessment of the Presence, Quantity and Character of	SM02 will detect and monitor the presence, extent, persistence and properties of hydrocarbons in marine sediments following the spill and the response. The specific objectives of SM02 are as follows: • Determine the extent, severity and persistence of hydrocarbons in marine	SM02 will be initiated in the event of a Level 2 or 3 hydrocarbon release, or any release event with the potential to contact sensitive environmental receptors and implemented as follows:	SM02 will be terminated once pre-spill condition is reached and agreed upon as per the SMP termination criteria process and include consideration of:
Hydrocarbons in Marine Sediments	 sediments across selected sites where hydrocarbons were observed or recorded during operational monitoring; and Provide information that may be used to interpret potential cause and effect drivers for environmental impacts recorded for sensitive receptors monitored under other SMPs. 	 Response activities have ceased; and Operational monitoring results made during the response phase indicate that shoreline, intertidal or sub-tidal sediments have been exposed to surface, entrained or dissolved hydrocarbons (at or above 0.5 g/m² surface, 5 ppb for entrained/dissolved hydrocarbons and ≥1 g/m² for shoreline accumulation). 	 Concentrations of hydrocarbons in sediment samples are below ANZECC/ ARMCANZ (2013¹⁰) sediment quality guideline values (SQGVs) for biological disturbance; and Details of the extent, severity and persistence of hydrocarbons from concentrations recorded in sediments have been documented.
Scientific monitoring program 3	The objectives of SM03 are:	SM03 will be activated in the event of a Level 2 or	SM03 will be terminated once pre-spill condition
(SM03) Assessment of Impacts and Recovery of Subtidal and Intertidal	Characterize the status of intertidal and subtidal benthic habitats and quantify any impacts to functional groups, abundance and density that may be a result of the spill; and	3 hydrocarbon release, or any release event with the potential to contact sensitive environmental receptors and implemented as follows:	is reached and agreed upon as per the SMP termination criteria process and include consideration of:
Benthos	Determine the impact of the hydrocarbon spill and subsequent recovery (including impacts associated with the implementation of response options). Categories of intertidal and subtidal habitats that may be monitored include:	As part of a pre-emptive assessment of PBAs of receptor locations identified by time to hydrocarbon contact >10 days, to target receptors and sites where it is possible to	 Overall impacts to benthic habitats from hydrocarbon exposure have been quantified. Recovery of impacted benthic habitats has been evaluated.
	Coral reefs	acquire pre-hydrocarbon contact baseline; and	Agreement with relevant persons/
	Seagrass	Operational monitoring identified shoreline	organisations and regulators based on the
	Macro-algae	potential contact of hydrocarbons (at or above 0.5 g/m² surface, 5 ppb for entrained/dissolved	nature and scale of the hydrocarbon spill
	Filter-feeders SM03 will be supported by sediment contamination records (SM02) and characteristics of the spill derived from OMPs.	hydrocarbons and ≥1 g/m² for shoreline accumulation) for subtidal and intertidal benthic habitat.	impacts and/or that observed impacts can no longer be attributed to the spill.
Scientific monitoring program 4 (SM04)	The objectives of SM04 are: Characterize the status of mangroves (and associated salt marsh habitat) at shorelines exposed/contacted by spilled hydrocarbons;	SM04 will be activated in the event of a Level 2 or 3 hydrocarbon release, or any release event with the potential to contact sensitive environmental receptors and implemented as follows:	SM04 will be terminated once pre-spill condition is reached and agreed upon as per the SMP termination criteria process and include consideration of:

 ⁹ NOPSEMA (2019) Bulletin #1 – Oil spill modelling – April 2019, https://www.nopsema.gov.au/assets/Bulletins/A652993.pdf
 10 Simpson SL, Batley GB and Chariton AA (2013). Revision of the ANZECC/ARMCANZ Sediment Quality Guidelines. CSIRO and Water Science Report 08/07. Land and Water, pp. 132.

Scientific monitoring Program (SMP)	Objectives	Activation Triggers	Termination Criteria
Assessment of Impacts and Recovery of Mangroves / Saltmarsh	 Quantify any impacts to species (abundance and density) and mangrove/saltmarsh community structure; and Determine and monitor the impact of the hydrocarbon spill and potential 	As part of a pre-emptive assessment of receptor locations identified by time to hydrocarbon contact >10 days; and	Impacts to mangrove and saltmarsh habitat from hydrocarbon exposure have been quantified.
	subsequent recovery (including impacts associated with the implementation of response options).	Operational monitoring identified shoreline potential contact of hydrocarbons (at or above)	 Recovery of impacted mangrove/saltmarsh habitat has been evaluated.
	SM03 will be supported by sediment sampling undertaken in SM02 and characteristics of the spill derived from OMPs.	0.5 g/m² surface, 5 ppb for entrained/dissolved hydrocarbons and ≥1 g/m² for shoreline accumulation) for mangrove/saltmarsh habitat.	 Agreement with relevant persons/ organisations and regulators based on the nature and scale of the hydrocarbon spill impacts and/or that observed impacts can no longer be attributed to the spill.
Scientific monitoring program 5 (SM05) Assessment of Impacts and	The Objectives of SM05 are to: Collate and quantify impacts to avian wildlife from results recorded during OM02 and OM05 (such as mortalities, oiling, rescue and release counts) and undertake a desk-based assessment to infer potential impacts at species	SM05 will be initiated in the event of a Level 2 or 3 hydrocarbon release, or any release event with the potential to contact sensitive environmental receptors and implemented as follows:	SM05 will be terminated once it is agreed that the receptor has returned to pre-spill condition. The SMP termination criteria process will be followed and include consideration of:
Recovery of Seabird and Shorebird Populations	 population level; and Undertake monitoring to quantify and assess impacts of hydrocarbon exposure to seabirds and shorebird populations at targeted breeding colonies / staging 	As part of a pre-emptive assessment of receptor locations identified by time to hydrocarbon contact >10 days;	 Impacts to seabird and shorebird populations from hydrocarbon exposure have been quantified.
	sites / important coastal wetlands where hydrocarbon contact was recorded.	Operational monitoring predicts shoreline contact of hydrocarbons (at or above 0.5 g/m² surface, 5 ppb for entrained/dissolved hydrocarbons and ≥1 g/m² for shoreline accumulation) at important bird colonies / staging sites / important coastal wetland locations; or	 Recovery of impacted seabird and shorebird populations has been evaluated. Agreement with relevant persons/ organisations and regulators based on the nature and scale of the hydrocarbon spill impacts and/or that observed impacts can no longer be attributed to the spill.
		 Records of dead, oiled or injured bird species made during the hydrocarbon spill or response. 	
Scientific monitoring program 6 (SM06) Assessment of Impacts and Recovery of Nesting Marine Turtle Populations	 The objectives of SM06 are to: To quantify impacts of hydrocarbon exposure or contact on marine turtle nesting populations (including impacts associated with the implementation of response options); Collate and quantify impacts to adult and hatchling marine turtles from results recorded during OM02 and OM05 (such as mortalities, oiling, rescue and release counts) and undertake a desk-based assessment to infer potential impacts at species population levels (including impacts associated with the implementation of response options); .and Undertake monitoring to quantify and assess impacts of hydrocarbon exposure to nesting marine turtle populations at known rookeries (including impacts associated with the implementation of response options). 	 SM06 will be initiated in the event of a Level 2 or 3 hydrocarbon release, or any release event with the potential to contact sensitive environmental receptors and implemented if operational monitoring has: As part of a pre-emptive assessment of receptor locations identified by time to hydrocarbon contact >10 days; Predicted shoreline contact of hydrocarbons (at or above 0.5 g/m² surface, 5 ppb for entrained/dissolved hydrocarbons and ≥1 g/m² for shoreline accumulation) at known marine turtle rookery locations; or Records of dead, oiled or injured marine turtle species made during the hydrocarbon spill or response. 	 SM06 will be terminated once it is agreed that the receptor has returned to pre-spill condition. The SMP termination criteria process will be followed and include consideration of: Impacts to nesting marine turtle populations from hydrocarbon exposure have been quantified. Recovery of impacted nesting marine turtle populations has been evaluated. Agreement with relevant persons/ organisations and regulators based on the nature and scale of the hydrocarbon spill impacts and/or that observed impacts can no longer be attributed to the spill.
Scientific monitoring program 7 (SM07) Assessment of Impacts to Pinniped Colonies including Haul-out Site Populations	 The objectives of SM07 are to: Quantify impacts on pinniped colonies and haul-out sites as a result of hydrocarbon exposure/contact. Collate and quantify impacts to pinniped populations from results recorded during OM02 and OM05 (such as mortalities, oiling, rescue and release counts) and undertake a desk-based assessment to infer potential impacts at species population levels. 	SM07 will be initiated in the event of a Level 2 or 3 hydrocarbon release, or any release event with the potential to contact sensitive environmental receptors and implemented if operational monitoring has: • As part of a pre-emptive assessment of receptor locations identified by time to hydrocarbon contact >10 days;	 SM07 will be terminated once it is agreed that the receptor has returned to pre-spill condition. The SMP termination criteria process will be followed and include consideration of: Impacts to pinniped populations from hydrocarbon exposure have been quantified. Recovery of pinniped populations has been evaluated.

Scientific monitoring Program (SMP)	Objectives	Activation Triggers	Termination Criteria
		 Identified shoreline contact of hydrocarbons ((at or above 0.5 g/m² surface, ≥5 ppb for entrained/dissolved hydrocarbons and ≥1 g/m² for shoreline accumulation) at known pinniped colony or haul-out site(s) (i.e. most northern site is the Houtman Abrolhos Islands); or Records of dead, oiled or injured pinniped 	Agreement with relevant persons/ organisations and regulators based on the nature and scale of the hydrocarbon spill impacts and/or that observed impacts can no longer be attributed to the spill.
		species made during the hydrocarbon spill or response.	
Scientific monitoring program 8 (SM08) Desk-Based Assessment of Impacts to Other Non-Avian Marine Megafauna	The objective of SM08 is to provide a desk-based assessment which collates the results of OM02 and OM05 where observations relate to the mortality, stranding or oiling of mobile marine megafauna species not addressed in SM06 or SM07, including: • Cetaceans; • Dugongs; • Whale sharks and other shark and ray populations; • Sea snakes; and • Crocodiles. The desk-based assessment will include population analysis to infer potential impacts to marine megafauna species populations.	SM08 will be initiated in the event of a Level 2 or 3 hydrocarbon release, or any release event with the potential to contact sensitive environmental receptors and implemented if operational monitoring reports records of dead, oiled or injured non-avian marine megafauna during the spill/response phase.	SM08 will be terminated when the results of the post-spill monitoring have quantified impacts to non-avian megafauna. • Agreement with relevant persons/ organisations and regulators based on the nature and scale of the hydrocarbon spill impacts and/or that observed impacts can no longer be attributed to the spill.
Scientific monitoring program 9 (SM09) Assessment of Impacts and Recovery of Marine Fish associated with SM03 habitats	 The objectives of SM09 are: Characterise the status of resident fish populations associated with habitats monitored in SM03 exposed/contacted by spilled hydrocarbons; Quantify any impacts to species (abundance, richness and density) and resident fish population structure (representative functional trophic groups); and Determine and monitor the impact of the hydrocarbon spill and potential subsequent recovery (including impacts associated with the implementation of response options). 	SM09 will be initiated in the event of a Level 2 or 3 hydrocarbon release, or any release event with the potential to contact sensitive environmental receptors and implemented with SMO3.	SM09 will be undertaken and terminated concurrent with monitoring undertaken for SM03, as per the SMP termination criteria process • Agreement with relevant persons/ organisations and regulators based on the nature and scale of the hydrocarbon spill impacts and/or that observed impacts can no longer be attributed to the spill.
Scientific monitoring program 10 (SM10) SM10 - Assessment of physiological impacts important fish and shellfish species (fish health and seafood quality/safety) and recovery	 SM10 aims to assess any physiological impacts to important commercial fish and shellfish species (assessment of fish health) and if applicable, seafood quality/safety. Monitoring will be designed to sample key commercial fish and shellfish species and analyse tissues to identify fish health indicators and biomarkers, for example: Liver Detoxification Enzymes (ethoxyresorufin-O-deethylase (EROD) activity) PAH Biliary Metabolites Oxidative DNA Damage Serum SDH Other physiological parameters, such as condition factor (CF), liver somatic index (LSI), gonado-somatic index (GSI) and gonad histology, total weight, length, condition, parasites, egg development, testes development, abnormalities. Seafood tainting may be included (where appropriate) using applicable sensory tests to objectively assess targeted finfish and shellfish species for hydrocarbon contamination. Results will be used to make inferences on the health of commercial fisheries and the potential magnitude of impacts to fishing industries. 	 SM10 will be initiated in the event of a Level 2 or 3 hydrocarbon release, or any release event with the potential to contact sensitive environmental receptors and implemented if operational monitoring (OM01, OM02 and OM05) indicates the following: The hydrocarbon spill will or has intersected with active commercial fisheries or aquaculture activities. Commercially targeted finfish and/or shellfish mortality has been observed/recorded. Commercial fishing or aquaculture areas have been exposed to hydrocarbons (≥0.5 g/m² surface and ≥5 ppb for entrained/dissolved hydrocarbons); and Taste, odour or appearance of seafood presenting a potential human health risk is observed. 	 SM10 will be terminated once it is agreed that the receptor has returned to pre-spill condition. The SMP termination criteria process will be followed and include consideration of: Physiological impacts to important commercial fish and shellfish species from hydrocarbon exposure have been quantified. Recovery of important commercial fish and shellfish species from hydrocarbon exposure has been evaluated. Impacts to seafood quality/safety (if applicable) have been assessed and information provided to the relevant persons/organisations and regulators for the management of any impacted fisheries. Agreement with relevant persons/organisations and regulators based on the nature and scale of the hydrocarbon spill impacts and/or that observed impacts can no longer be attributed to the spill.

Activation Triggers and Termination Criteria

Scientific monitoring program Activation

The Woodside oil spill scientific monitoring team will be stood up immediately with the occurrence of a hydrocarbon spill (actual or suspected) Level 2 or 3 hydrocarbon release, or any release event with the potential to contact sensitive environmental receptors via the first strike plan for the petroleum activity programme. The presence of any level of hydrocarbons in the marine environment triggers the activation of the oil spill scientific monitoring program (SMP). This is to ensure the full range of eventualities relating to the environmental, socio-economic and health consequences of the spill are considered in the planning and execution of the SMP. The activation process also takes into consideration the management objectives, species recovery plans, conservation advices and conservations plans for any World Heritage Area (WHA), CMRs, State Marine Parks, other protected area designations (e.g., State nature reserves) and Matters of National Environmental Significance (including listed species under part 3 of the EPBC Act) potentially exposed to hydrocarbons. With the first 24-48 hours of a spill event, such information will be sourced and evaluated as part of the SMP planning process guided by Appendix D (identified receptors vulnerable to hydrocarbon contact), the information presented in the Existing Environment section of the EP as well as other information sources such as the Woodside Baseline Environmental Studies Database (Link).

The starting point for decision-making on what SMPs are activated and spatial extent of monitoring activities will be based on the predictive modelling results (OM01) in the first 24-48 hours until more information is made available from other operational monitoring activities such as aerial surveillance and shoreline surveys. Pre-emptive Baseline Areas (WHA, CMRs and State Marine Parks encompassing key ecological and socio-economic values) are a key focus of the SMP activation decision-making process, particularly, in the early spill event/response phase. As the operational monitoring progresses and further situational awareness information becomes available, it will be possible to understand the nature and scale of the spill. The SMP activation and implementation decision-making will be revisited on a daily basis to account for the updates on spill information. One of the priority focus areas in the early phase of the incident will be to identify and execute pre-emptive SMP assessments at key receptor locations, as required. The SMP activation and implementation decision tree is presented in Figure C-2.

Scientific monitoring Program Termination

The basis of the termination process for the active SMPs (SMPs 1-10) will include quantification of impacts, evaluation of recovery for the receptor at risk and consultation with relevant authorities, persons and organisations. Termination of each SMP will not be considered until the results (as presented in annual SMP reports for the duration of each program) indicate that the target receptor has returned to pre-spill condition.

Once the SMP results indicate impacted receptor(s) have returned to pre-spill condition (as identified by Woodside) a termination decision-making process will be triggered and a number of steps will be undertaken as follows:

- Woodside will engage expert opinion on whether the receptor has returned to pre-spill condition (based on monitoring data). Subject Matter Expert (SMEs) will be engaged (via the Woodside SME scientific monitoring terms of reference) to review program outcomes, provide expert advice and recommendations for the duration of each SMP.
- Where expert opinion agrees that the receptor has returned to pre-spill condition, findings will then be presented to the relevant authorities, persons and organisations (as defined by the Offshore Petroleum and Greenhouse Gas Storage (Environment) Regulation 11A). Identification of relevant persons/ organisations, planning and engagement will be managed by Woodside's Reputation Functional Support Team (FST) and follow the Stakeholder Management FST. These guidelines outline the FST roles and responsibilities, competencies, communications and planning processes. An assessment of the merits of any objection to termination will be documented in the SMP final report.

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- Woodside will decide on termination of SMP based on expert opinion and merits of any
 objections from relevant persons/ organisations. The final report following termination will
 include: monitoring results, expert opinion and consultation including merits of any objections.
- Termination of SMPs will also consider applicable management objectives, species recovery
 plans, conservation advices and conservations plans for any World Heritage Area (WHA),
 CMRs, State Marine Parks, other protected area designations (e.g., State nature reserves) and
 Matters of National Environmental Significance (including listed species under part 3 of the
 EPBC Act).

The SMP termination decision-making process will be applied to each active SMP and an iterative process of decision steps continued until each SMP has been terminated (refer to decision-tree diagram for SMP termination criteria, Figure C-3).

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SMP ACTIVATION & IMPLEMENTATION DECISION PROCESS SMP activation based on level 2 or 3 spill event (suspected or actual) SMP data inputs: WEL SMP Delivery team stood up Overlay spill trajectory forecasts with environmental sensitivities (GTO online maps) - first 24-48 hours. WEL baseline database/I-GEM Daily review of OMP Identify receptors at risk and predicted time to hydrocarbon contact (hydrocarbon contamination •Woodside oil spill information to sensitivity maps predict receptors at defined as : ≥0.5g/m2 surface, ≥5 ppb entrained/dissolved and ≥1 g/m2 accumulated). Repeat daily and supplement with other OMP information and seasonality risk and re-assess information SMP activation & Operational implementation Monitoring data: ·OMO1 - spill predictions (<24 hrs with ongoing updates) Review baseline data and existing monitoring. •OM02-05 (from Are environmental baseline data adequate to determine the extent, severity and persistence of day 2 or 3. typically) hydrocarbon impacts on the receptors at risk post-Pre-spill baseline data for identified receptors are adequate. Plan SMPs and their implementation Q. Is there time to collect pre-contact baseline data on the identified receptors? Environmental Service Provider stood up. NO ш activated plan for •A plan for activated SMPs implementation executed. •SMP teams mobilised to collect pre-SMPs implementation executed for receptor locations where no baseline data emptive baseline data. ·SMP teams mobilised to collect impact and pre-emptive baseline data. Post-spill Event Phase Post-Spill Event: Scientific Monitoring Program Collect post-spill event SMP data for activated receptor type SMPs at a number of impacted and reference/control sites and locations. Quantify impacts to receptors from hydrocarbon contact (exposure concentrations and duration) Document and evaluate receptor recovery and continue monitoring until receptor has returned to pre-spill Report the SMP results tracking impact and recovery for target receptors annually until SMP terminated *Following cessation of spill (data collection to commence within 10 days)

Figure C-2: Activation and Implementation Decision-tree for Oil Spill Environmental Monitoring

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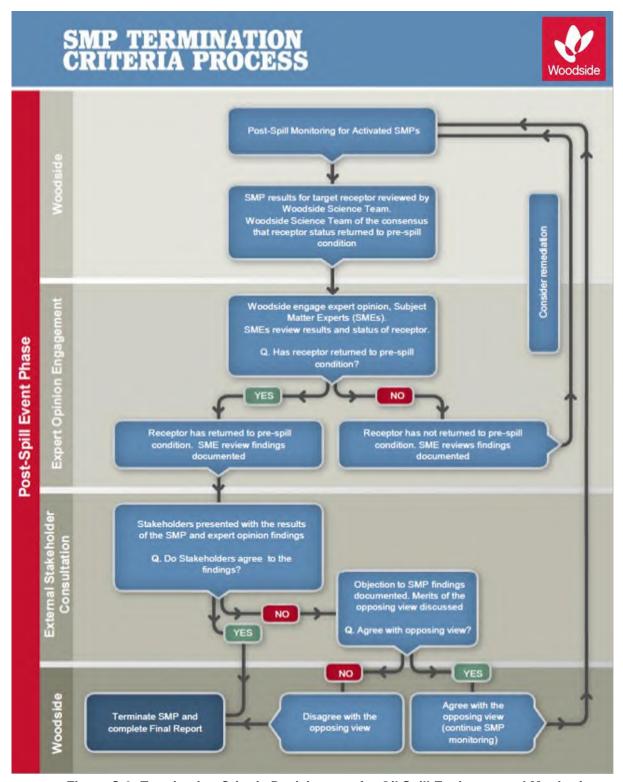


Figure C-3: Termination Criteria Decision-tree for Oil Spill Environmental Monitoring

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Receptors at Risk and Baseline Knowledge

In order to assess the baseline studies available and suitability for oil spill scientific monitoring, Woodside maintains knowledge of environmental baseline studies through the upkeep and use of its Environmental Knowledge Management System.

Woodside's Environmental Knowledge Management System is a centralised platform for scientific information on the existing environment, marine biodiversity, Woodside environmental studies, key environmental impact topics, key literature and web-based resources. The system comprises a number of data directories and an environmental baseline database, as well as folders within the 'Corporate Environment' server space. The environmental baseline database was set up to support Woodside's SMP preparedness and as a SMP resource in the event of an unplanned hydrocarbon spill. The environmental baseline database is subject to updates including annual reviews completed as part of SMP standby contract. This database is accessed pre-PAP to identify Pre-emptive Baseline Areas (PBAs) where hydrocarbon contact is predicted to occur <10 days.

In addition to Woodside's Environmental Knowledge Management System, it is acknowledged that many relevant baseline datasets are held by other organisations (e.g. other oil and gas operators, government agencies, state and federal research institutions and non-governmental organisations). In order to understand the present status of environmental baseline studies a spatial environmental metadata database for Western Australia (Industry-Government Environmental Metadata, I-GEM) was established. IGEM is a collaboration comprising oil and gas operators (including Woodside), government and research agencies and other organisations. IGEM held data were integrated into the Department of Water and Environmental Regulation (WA) Index of Marine Surveys for Assessment (IMSA)¹¹ in 2020. The Index of Marine Surveys for Assessments (IMSA) is an online portal for information about marine-based environmental surveys in Western Australia. IMSA is a project of the Department of Water and Environmental Regulation (the department) for the systematic capture and sharing of marine data created as part of an environmental impact assessment (EIA).

In the event of an unplanned hydrocarbon release, Woodside intends to interrogate the information on baseline studies status as held by the various databases (e.g. Woodside Environmental Knowledge Management System, IMSA and other sources of existing baseline data) to identify Preemptive Baseline Areas (PBAs), i.e., receptors at risk where hydrocarbon contact is predicted to be >10 days, and baseline data can be collected before hydrocarbon contact.

Reporting

For the scientific monitoring program relevant regulators will be provided with:

- Annual reports summarising the SMPs deployed and active, data collection activities and available findings; and
- Final reports for each SMP summarising the quantitative assessment of environmental impacts and recovery of the receptor once returned to pre-spill condition and termination of the monitoring program.

The reporting requirements of the scientific monitoring program will be specific to the individual SMPs deployed and terms of responsibilities, report templates, schedule, QA/QC and peer-review will be agreed with the contractors engaged to conduct the SMPs. Compliance and auditing mechanisms will be incorporated into the reporting terms.

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¹¹ https://biocollect.ala.org.au/imsa#max%3D20%26sort%3DdateCreatedSort

ANNEX D: MONITORING PROGRAM AND BASELINE STUDIES FOR THE PETROLEUM ACTIVITIES PROGRAM

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Table D-1: Oil Spill Environmental Monitoring – scientific monitoring program scope for the Petroleum Activities Program based on worst case credible spill CS-01 for WA-61-L and WA-62-LSubsea Infrastructure

Receptors to be Monitored	ble SMP	Kimberley AMP	owley Terrace AMP	Montebello AMP	Dampier AMP	Carnarvon Canyon AMP	Ningaloo AMP	Sascoyne AMP	Shark Bay Open Ocean (including AMP)	Abrolhos AMP	AMP	wo Rocks AMP	erth Canyon AMP	eographe AMP	west Corner AMP	shmore Reef and AMP	ingapatam Reef	ott Reef (North and South)	maid Reef and AMP	Clerke Reef and State Marine Park	mperieuse Reef and State Marine Park	Rankin Bank	Glomar Shoals	Rowley Shoals (including Sate Maine Park)	ntome Shoal	dele Island	acepede Islands	ntebello Islands (including State Marine Park)	endal Islands (including State Nature erves)	rrrow Island (including State Nature Reserves, ate Marine Park and Marine Management Area)	Islands (WHA, Marine Management Area)	ara Islands - Southern Island Group (Serrurier, evenard and Bessieres Islands - State Nature	iervesi aara Islands - Northern Island Group (Sandy and Dassaga Islands - State natura reserves)	ands	Kimberley Coast	ampier Peninsula	Northern Pilbara Shoreline	Ningaloo Coast (North/North West Cape, Middle and South) (WHA, and State Marine Park)	Shark Bay - Open Ocean Coast	3ay (WHA, State Marine Park)	
	Applicable	imbe	Agro-Row	onte	ampi	armar	ingal	asco	hark	brolh	Jurien AMP	wo R	erth (eogra	outh	shmo	ering	cott F	lerma	lerke	nperi	ankin	loma	owley	anton	dele	асере	onte	owen	arrow tate N	fuiron Islan	ilbara	ilbara	brolh	imbe	ampi	orthe	ingal nd So	hark	Shark Bay	ı
labitat	•	¥	•	2		٥	Ĺ	O	S	4	_			Ü	S	•	S	S	2	0	Ť		O	-		•		2	~	ш и	2	- F		. 4	¥			2 0	o,	S	
Water Quality	SM01	Х	Х	Х	Х	X	Х	X	х	Х	х	х	х	Х	х	х	Х	х	х	х	х	х	х	Х	Х	Х	Х	Х	х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	T
Marine Sediment Quality	SM02	Х	Х	Х	Х	х		Х	х	Х	х	х	х	Х	х	х	х	х	х	х	х	х	х	Х	Х	Х	Х	Х	х	Х	Х	Х	х	Х	Х	Х	Х	Х	Х	-	+
Coral Reef	SM03	Х		Х												Х	х	х	х	х	х	Х	Х	х	Х	х	х	Х	х	Х	х			Х	Х	Х	Х	Х	х	Х	1
Seagrass / Macro-Algae	SM03	Х									Х					Х	Х	х									х	Х	Х	Х	х	Х	Х	Х	Х	Х	Х	Х	х	Х	
Deeper Water Filter	1000	х			х	х	х	X	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х	Х	111					х							Х			T
Feeders	SM03				- 112		-				77	122				1 10		111	1,00			1201						Х						Х	Х	Х	Х	X		Х	+
Mangroves and Saltmarsh Species	SM04																											-									-				
Sea Birds and Migratory Shorebirds (significant colonies / staging sites / coastal wetlands)	SM05	х	х	x	х		х	x	х	х	х	х	х	х	х	х	х	х	х	х	х					х	х	х	х	х	х	х	х	х	х	х	х	x	х	х	
Marine Turtles (significant nesting beaches)	SM06	Х	х	х	х		Х	X	х							х	х	х	х	х	х						Х	Х	Х	Х	х	Х	Х	х	х	х	х	Х	х	х	
Pinnipeds (significant	135.21									х	х	х			х																										T
colonies / haul-out sites) Cetaceans - Migratory	SM07	х	х	х	Х		Х	x	Х	х	х	х	х	Х	х		-	х									х	х	х	Х	х			х	х	х		Х		х	
Whales Oceanic and Coastal	SM08	- 01						*			*						v		v	v	v	v	v		v					1		v		1		200	v			1	+
Cetaceans	SM08	X	Х	Х	Χ		Х	A	X	Х	-		Х	Х	Х	X	Х	Х	Х	Х	Х	Х	Х	Х	Х		Х	X	X	Х	X	X	X	Х	X	X	X	X	X	-	+
Dugongs	SM08	Х							Х							Х												Х	Х	Х	Х	X	X		Х	Х	Х	X	Х		+
Sea Snakes	SM08	Х		X	Х			X	Х	Х						Х	Х	X	Х	Х	Х	Х	Х	Х	Х		Х	X	X	X	X	Х	Х	Х	Х	Х	Х	X	Х	Х	+
Whale Sharks	SM08			Х			Х	X										Х										Х	Х	Х	Х							Х		1	+
Other Shark and Ray Populations	SM08, SM09	Х	Х	Х	Х		Х	X	Х	Х	Х			Х	Х	Х	Х	Х	Х	Х	х	Х	Х	Х	Х		Х	Х	Х	Х	Х	Х	Х	х	Х	Х	Х	Х	Х	Х	
Fish Assemblages	SM09	Χ	Х	X	Х	X	Х	X	Х	Χ	Х	Х	Х	Χ	Х	Х	Х	Х	Х	Х	Х	Χ	Χ	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	
Socio-economic																																									
risheries - Commercial	SM10		Х	Х	Х	Х	Х	X	Х	Х	Х	Х										Х	Х	Х	Х		111.	Х	Х	Х		Х	Х	Х	Х	Х	Х	X	×	X	1
isheries - Traditional ourism (incl. recreational	SM10	х		X			Х	x	х		х			х	х	X	X	X X	х	х	х	х	х	х			Х	х	Х	Х	X	х	Х	X	х	х	х	Y	×	X.	#
fishing)	SM10	^		^			^	100	^		^			^	^	^	^	^	^	^	^	^	^	^				^	^	^	~	^	^	^	^	^	^	^		30	\perp

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Table D-2: Baseline studies for the SMPs applicable to identified pre-emptive baseline areas for the petroleum activities program

Major Baseline	Proposed Scientific monitoring operational plan and Methodology	Ningaloo and Muiron Islands	Montebello AMP
Benthic Habitat	SM03	Studies:	
(Coral Reef)	Quantitative assessment using image capture using either diver held camera or towed video. Post analysis into broad groups based on taxonomy and morphology.	 DBCA LTM Ningaloo Reef program: 1991-ongoing. AIMS/DBCA 2014 Baseline Ningaloo and Muiron Islands Survey – repeat and expansion on the LTM (Co-funded survey: Woodside and AIMS). Pilbara Marine Conservation Partnership. WAMSI LTM Study: Ningaloo Research node: 2009 -10 over the length of Ningaloo reef system (with a focus on coral and fish recruitment). Ningaloo Outlook (CSIRO) - Shallow and Deep Reefs Program (2015-ongoing). Ningaloo Collaboration Cluster: Habitats of the Ningaloo Reef and adjacent coastal areas determined through hyperspectral imagery Allen Coral Atlas 	 Coral Reefs & Filter Feeders Montebello Marine Park, 2019, Identification and qualitative descriptions of benthic habitat. Montebello Australian Marine Parks – 2019 – Baseline survey on benthic habitats. Pluto Trunkline within Montebello Marine Park – Monitoring marine communities.
		Methods:	
		LTM transects, diver based (video) photo quadrats, specimen collection.	1.ROV Transects
		2. LTM sites, transects, diver-based video quadrat.	2. Benthic habitat mapping, multibeam acoustic swathing.
		3. Diver video transects, still photography, video and in situ visual estimates from transects, quadrats, manta-tows, towed video and ROV.	3. ROV video.
		Video point intercept transects recorded by towed video or diver hand-held video camera.	
		5. Video transects.	
		6. LTM transects, diver based (video) photo quadrat.	
		7. Combination of satellite imagery analysis and mapped/monitored areas.	
		References and Data:	
		DBCA unpublished data.	1. Advisian 2019
		DATAHOLDER: DBCA	2. Keesing 2019
		2. AIMS 2015.	3. McLean et al. 2019
		DATAHOLDER: AIMS. 3. Pilbara Marine Conservation Partnership	
		DATAHOLDER: CSIRO	
		4. Depczynski et al. 2011	
		DATAHOLDER: AIMS, DBCA and WAMSI.	
		5. CSIRO 2019 – Ningaloo Outlook Program	
		6. Murdoch University – HyVista Corporation – April and May 2006 (Kobryn et al. 2013 and 2022)	
		7. https://allencoralatlas.org/atlas/#7.58/-21.5563/114.9133 (accessed 18/05/2022)	

Benthic Habitat	SM03	Studies:					
(Seagrass and Macro-algae)	Quantitative assessment using image capture using either diver held	Quantitative descriptions of Ningaloo sanctuary zones habitats types including lagoon and offshore areas –	N/A – see Table D-1				
	camera or towed video. Post analysis	Cassata and Collins (2008).					
	into broad groups based on taxonomy and morphology.	CSIRO/BHP Ningaloo Outlook Program Ningaloo Collaboration Cluster: Habitats of the Ningaloo Reef and adjacent coastal areas determined through					
	taxonomy and morphology.	hyperspectral imagery.					
		4. Australian Institute of Marine Science – CReefs: Ningaloo Reef Biodiversity Expeditions (2008-2010)					
		5. Combination of satellite imagery analysis and mapped/monitored areas.					
		Methods:					
		Video transects to ground truth aerial photographs and satellite imagery.	N/A – see Table D-1				
		2. Diver video transects					
		3. LTM transects, diver based (video) photo quadrat.					
		4. LTM transects, diver based (video) photo quadrats, specimen collection					
		5. Satellite imagery, mapping and monitoring					
		References and Data:					
		1. Cassata and Collins 2008.	N/A – see Table D-1				
		DATAHOLDER: Curtin University – Applied Geology.					
		2. CSIRO – Ningaloo Outlook Program					
		3. Murdoch University – HyVista Corporation – April and May 2006 (Kobryn et al. 2013 and 2022)					
		4. AIMS (2010) - http://www.aims.gov.au/creefs					
		5. https://allencoralatlas.org/atlas/#7.58/-21.5563/114.9133 (accessed 18/05/2022)					
Benthic Habitat	SM03	Studies:					
(Deeper Water Filter Feeders)	Quantitative assessment using image	1. WAMSI 2007 deep-water Ningaloo benthic communities study, Colquhoun and Heyward (2008).	See SM01				
i iitei i eedeisj	capture using towed video. Post analysis into broad groups based on taxonomy and morphology.	2. CSIRO/BHP Ningaloo Outlook Program - Deep reef themes					
		Methods:					
		Towed video and benthic sled (specimen sampling).	See SM01				
		2. Sidescan sonar and AUV transects					
		References and Data:					
		1. Colquhoun and Heyward (eds) 2008.DATAHOLDER: WAMSI, AIMS.	See SM01				
		2. CSIRO – Ningaloo Outlook Program					
Mangroves and	SM04	Studies:					
Saltmarsh	Aerial photography and satellite imagery will be used in conjunction	Woodside Sentinel Imagery – May 2017. EOMAP atmospheric correction and mangrove and land cover classification	N/A – see Table D-1				
	with field surveys to map the range and distribution of mangrove	2. Woodside hold Rapid Eye imagery of the Ningaloo Reef and coastal area.					
	communities.	3. Hyperspectral survey (2006) of Ningaloo Reef and coastal area (not yet analysed for Mangroves).					
		4. North West Cape sensitivity mapping 2012 included Mangrove Bay.					
		5. Global mangrove distribution as mapped by the USGS and located on UNEP's Ocean Data viewer					
		Methods:					
		1. Sentinel HR imagery of coastal margin from the Abrolhos Islands to Dampier Archipelago (including Montebellos)	N/A – see Table D-1				
		2. Rapid Eye imagery – High resolution satellite imagery from October/November/December 2011.					
		3. Remote sensing – acquisition of HyMap airborne hyperspectral imagery and ground truthing data collection.					
		4. Reconnaissance surveys of the shorelines of the North West Cape and Muiron Islands.					
		5. Remote sensing study of global mangrove coverage					
		References and Data:					

		1. EOMPA, 2017	N/A – see Table D-1
			IVA – see Table D-1
		DATAHOLDER: Woodside	
		2. AAM 2014.	
		DATAHOLDER: Woodside.	
		3. Kobryn et al. 2013 and 2022	
		DATAHOLDER: Murdoch University, AIMS; Woodside.	
		4. Joint Carnarvon Basin Operators, 2012.	
		DATAHOLDER: Woodside Apache Energy Ltd.	
		5. http://data.unep-wcmc.org/	
Seabirds	SM05	Studies:	
	Visual counts of breeding seabirds,	1. LTM Study of marine and shoreline birds: 1970-2011.	Present, in open water, no breeding habitat.
	nest counts, intertidal bird counts at	2. LTM of shorebirds within the Ningaloo coastline (Shorebirds 2020). Available via Birdlife Australia	
	high tide.	3. Exmouth Sub-basin Marine Avifauna Monitoring Program (Quadrant Energy/Santos)	
		4. Integrated Shearwater Monitoring Program (1994-2016).	
		5. Seabird and Shorebird baseline studies, Nignaloo Region – Report on January 2018 bird surveys	
		6.Wedge-tailed shearwater foraging behaviour in the Exmouth Region	
		Methods:	
		Counts of nesting areas, counts of intertidal zone during high tide.	N/A
		2. The Shorebirds 2020 database comprises the most complete shorebird count data available in Australia. The	
		data have been collected by volunteer counters and BirdLife Australia staff for approximately 150 roosting and feeding sites, mainly in coastal Australia. The data go back as far as 1981 for key areas.	
		3. The Exmouth Sub-basin Marine Avifauna Monitoring Program undertook a detailed assessment of seabird and shorebird use in the Exmouth Sub-basin. Four aerial surveys and four island surveys were conducted between	
		February 2013 and January 2015 for this Program, inclusive of the mainland coasts, offshore islands and a 2500km2 area of ocean adjacent to the Exmouth Sub-basin	
		4. Shorebird counts, Shearwater Burrow Density	
		5. Telemetry (GPS and satellite trackers)	
		References and Data:	
		1. Johnstone et al. 2013. DATAHOLDER: WA MUSEUM. AMOSC/DBCA (DPaW)2014.	N/A
		2BirdLife Australia Shorebirds 2020 programme	
		(http://www.birdlife.org.au/projects/shorebirds-2020).	
		Tritip.//www.birdinc.org.ad/projects/shorebirds 2020/.	
		3. Surman and Nicholson, 2015	
		3. Surman and Nicholson, 2015 4. BirdLife Australia: Dataholder: BirdLife Australia, Woodside	
Turtles	SM06	3. Surman and Nicholson, 20154. BirdLife Australia: Dataholder: BirdLife Australia, Woodside5. UWA Dataholder: UWA and Birdlife Australia	
Turtles	SM06 Reach surveys (recording species	3. Surman and Nicholson, 2015 4. BirdLife Australia: Dataholder: BirdLife Australia, Woodside 5. UWA Dataholder: UWA and Birdlife Australia Studies:	Present in onen water no necting habitate
Turtles	Beach surveys (recording species,	3. Surman and Nicholson, 2015 4. BirdLife Australia: Dataholder: BirdLife Australia, Woodside 5. UWA Dataholder: UWA and Birdlife Australia Studies: 1. Exmouth Islands Turtle Monitoring Program.	Present, in open water, no nesting habitats.
Turtles		3. Surman and Nicholson, 2015 4. BirdLife Australia: Dataholder: BirdLife Australia, Woodside 5. UWA Dataholder: UWA and Birdlife Australia Studies: 1. Exmouth Islands Turtle Monitoring Program. 2. Ningaloo Turtle Program	Present, in open water, no nesting habitats.
Turtles	Beach surveys (recording species,	3. Surman and Nicholson, 2015 4. BirdLife Australia: Dataholder: BirdLife Australia, Woodside 5. UWA Dataholder: UWA and Birdlife Australia Studies: 1. Exmouth Islands Turtle Monitoring Program. 2. Ningaloo Turtle Program 3. Turtle activity and nesting on the Muiron Islands and Ningaloo Coast (2018).	Present, in open water, no nesting habitats.
Turtles	Beach surveys (recording species,	 Surman and Nicholson, 2015 BirdLife Australia: Dataholder: BirdLife Australia, Woodside UWA Dataholder: UWA and Birdlife Australia Studies: Exmouth Islands Turtle Monitoring Program. Ningaloo Turtle Program Turtle activity and nesting on the Muiron Islands and Ningaloo Coast (2018). Spatial and temporal use of inter-nesting habitat by sea turtles along the Murion Islands and Ningaloo Coast – 2018-2019 	Present, in open water, no nesting habitats.
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Turtles	Beach surveys (recording species,	 Surman and Nicholson, 2015 BirdLife Australia: Dataholder: BirdLife Australia, Woodside UWA Dataholder: UWA and Birdlife Australia Studies: Exmouth Islands Turtle Monitoring Program. Ningaloo Turtle Program Turtle activity and nesting on the Muiron Islands and Ningaloo Coast (2018). Spatial and temporal use of inter-nesting habitat by sea turtles along the Murion Islands and Ningaloo Coast – 2018-2019 Methods: Astron (on behalf of Santos) to address a gap in the knowledge of turtle numbers at key locations (offshore islands within the region) that are not currently part of an existing monitoring programs (e.g. the NTP). Field surveys were conducted in October 2013 and January 2014. Surveys were conducted on 12 islands, with each island surveyed once (with the exception of Beach 8 at North Muiron Island) and all tracks counted. 	
Turtles	Beach surveys (recording species,	 Surman and Nicholson, 2015 BirdLife Australia: Dataholder: BirdLife Australia, Woodside UWA Dataholder: UWA and Birdlife Australia Exmouth Islands Turtle Monitoring Program. Ningaloo Turtle Program Turtle activity and nesting on the Muiron Islands and Ningaloo Coast (2018). Spatial and temporal use of inter-nesting habitat by sea turtles along the Murion Islands and Ningaloo Coast – 2018-2019 Methods: Astron (on behalf of Santos) to address a gap in the knowledge of turtle numbers at key locations (offshore islands within the region) that are not currently part of an existing monitoring programs (e.g. the NTP). Field surveys were conducted in October 2013 and January 2014. Surveys were conducted on 12 islands, with each island surveyed once (with the exception of Beach 8 at North Muiron Island) and all tracks counted. Long term trends in marine turtle populations, beach surveys, track counts, best location, mortality counts. 	
Turtles	Beach surveys (recording species,	 Surman and Nicholson, 2015 BirdLife Australia: Dataholder: BirdLife Australia, Woodside UWA Dataholder: UWA and Birdlife Australia Studies: Exmouth Islands Turtle Monitoring Program. Ningaloo Turtle Program Turtle activity and nesting on the Muiron Islands and Ningaloo Coast (2018). Spatial and temporal use of inter-nesting habitat by sea turtles along the Murion Islands and Ningaloo Coast – 2018-2019 Methods: Astron (on behalf of Santos) to address a gap in the knowledge of turtle numbers at key locations (offshore islands within the region) that are not currently part of an existing monitoring programs (e.g. the NTP). Field surveys were conducted in October 2013 and January 2014. Surveys were conducted on 12 islands, with each island surveyed once (with the exception of Beach 8 at North Muiron Island) and all tracks counted. 	

			N/A
		1.Santos – Report.	IVA
		2. NTP Annual Reports	
		DATAHOLDERS: DBCA. Reports available at http://www.ningalooturtles.org.au/media_reports.html	
		3.Rob et al. 2019	
		DATAHOLDER: DBCA	
		4.Tucker et al. 2019	
		DATAHOLDER: DBCA	
	0.100		
Fish	SM09	Studies:	
	Baited Remote Underwater Video Stations (BRUVS), Visual	1. AIMS/DBCA 2014 Baseline Ningaloo Survey – repeat and expansion on the LTM (Co-funded survey: Woodside	1. CSIRO – Fish Diversity.
	Underwater Counts (VUC), Diver	and AIMS).	2. Fish species richness and abundance.
	Operated Video (DOV).	2. Demersal fish populations – baseline assessment (AIMS/WAMSI).	
	· · · · · · · · · · · · · · · · · · ·	3. DBCA study measured Species Richness, Community Composition, and Target Biomass, through UVC. BRUVS studies determining max N, Species Richness, and Biomass.	
		4. Pilbara Marine Conservation Partnership Stereo BRUVS in shallow water (~10m) in 2014 in northern region of	
		the Ningaloo Marine Park, in shallow water (~10m) inside the lagoonal reef of the Ningaloo Marine Park in 2016, in deep water (~40m) across the length of the Ningaloo Marine Park in 2015, in shallow water outside of Ningaloo Reef from Waroora to Jurabi in 2015 and offshore of the Muiron Islands in 2015.	
		5. Elasmobranch faunal composition of Ningaloo Marine Park.	
		6. Juvenile fish recruitment surveys at Ningaloo reef.	
		7. Demersal fish assemblage sampling method comparison	
		8. Ningaloo Outlook (CSIRO) - Shallow and Deep Reefs Program	
		Methods:	
		1. UVC surveys.	Semi V Wing trawl net or an epibenthic sled.
		2. BRUVS Study with 304 video samples at three specific depth ranges (1-10 m, 10-30 m and 30-110m).	2. ROV Video.
		3. UVC surveys.	
		4. Stereo BRUVS 5. Snorkel and Scuba surveys.	
		5. Underwater visual census.	
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		7. Diver UVC.	
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ANNEX E: TACTICAL RESPONSE PLANS

TACTICAL RESPONSE PLANS

Exmouth

Mangrove Bay

Turquoise Bay

Yardie Creek

Muiron Islands

Jurabi to Lighthouse Beaches Exmouth

Ningaloo Reef - Refer to Mangrove/Turquoise bay and Yardie Creek

Exmouth Gulf

Shark Bay Area 1: Carnarvon to Wooramel

Shark Bay Area 2: Wooramel to Petite Point

Shark Bay Area 3: Petite Point to Dubaut Point

Shark Bay Area 4: Dubaut Point to Herald Bight

Shark Bay Area 5: Herald Bight to Eagle Bluff

Shark Bay Area 6: Eagle Bluff to Useless Loop

Shark Bay Area 7: Useless Loop to Cape Bellefin

Shark Bay Area 8: Cape Bellefin to Steep Point

Shark Bay Area 9: Western Shores of Edel Land

Shark Bay Area 10: Dirk Hartog Island

Shark Bay Area 11: Bernier and Dorre Islands

Abrohlos Islands: Pelseart Group Abrohlos Islands: Wallabi Group Abrohlos Islands: Easter Group

Dampier

Rankin Bank and Glomar Shoals

Barrow and Lowendal Islands

Pilbara Islands - Southern Island Group

Montebello Is - Stephenson Channel Nth

Montebello Is Champagne Bay and Chippendale channel

Montebello Is - Claret Bay

Montebello Is - Hermite/Delta Is Channel

Montebello Is - Hock Bay

Montebello Is - North and Kelvin Channel

Montebello Is - Sherry Lagoon Entrance

Withnell Bay

Holden Bay

King Bay

No Name Bay / No Name Beach

Enderby Is -Dampier

Rosemary Island - Dampier

Legendre Is - Dampier

Karratha Gas Plant

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KGP to Whitnell Creek

KGP to Northern Shore

KGP Fire Pond and Estuary

KGP to No Name Creek

Broome

Sahul Shelf Submerged Banks and Shoals

Clerke Reef (Rowley Shoals)

Imperieuse Island (Rowley Shoals)

Mermaid Reef (Rowley Shoals)

Scott Reef

Oiled Wildlife Response

Exmouth

Dampier region

Shark Bay

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APPENDIX E NOPSEMA REPORTING FORMS

NOPSEMA Recordable Environmental Incident monthly Reporting Form: https://www.nopsema.gov.au/assets/Forms/A198750.doc

Report of an accident, dangerous occurrence or environmental incident: https://www.nopsema.gov.au/assets/Forms/N-03000-FM0831-Report-of-an-Accident-Dangerous-Occurrence-or-Environmental-Incident-Rev-8-Jan-2015-MS-Word-2010.docx

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APPENDIX F CONSULTATION

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Table 1: Consultation Report with Relevant Persons or Organisations

Commonwealth and WA State Government Departments or Agencies - Marine

Australian Border Force (ABF)

Woodside considers it has discharged its obligations for consultation under Regulation 11A(1). Sufficient time, information and opportunity has been provided as summarised below:

- Consultation Information Sheet publicly available on the Woodside website since September 2022.
- Woodside published advertisements in a national, state and relevant local newspapers on 19 October 2022 advising of the proposed activities and requesting feedback.
- Consultation Information provided to ABF on 21 September 2022 based on their function, interest and activities.
- Woodside has sent follow up emails seeking feedback on the proposed activities.
- Woodside has provided the ABF with the opportunity to provide feedback over an 11 month period.

Summary of information provided and record of consultation:

- On 21 September 2022, Woodside emailed ABF advising of the proposed activity (Appendix F, references 1.2 and 1.3) and provided a Consultation Information Sheet and Consultation FAQ.
- On 13 October 2022, Woodside sent a follow up email (Appendix F, reference 1.67).
- On 27 January 2023, Woodside emailed ABF with an update on the proposed activity (Appendix F, reference 1.122) and provided an updated Consultation Information Sheet.
- On 22 February 2023, Woodside sent a follow up email (reference 1.161).

Summary of Feedback, Objection or Claim	Woodside Energy's Assessment of Merits of Feedback, Objection or Claim and its Response	Environment Plan Controls	
No feedback, objections or claims received despite follow up.	Woodside engages in ongoing consultation throughout the life of an EP. Should feedback be received after the EP has been accepted, it will be assessed and, where appropriate, Woodside will apply its Management of Change and Revision process (see Section 7).	Woodside has addressed maritime security-related issues in Section 6 of this EP based on previous offshore activities. No additional measures or controls are required	
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Australian Fisheries Management Authority (AFMA)

Woodside considers it has discharged its obligations for consultation under Regulation 11A(1). Sufficient time, information and opportunity has been provided as summarised below:

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- Consultation Information Sheet publicly available on the Woodside website since September 2022.
- Woodside published advertisements in a national, state and relevant local newspapers on 19 October 2022 advising of the proposed activities and requesting feedback.
- Consultation Information provided to AFMA on 21 September 2022 based on their function, interest and activities.
- Woodside has addressed and responded to AFMA over an 11 month period.

Summary of information provided and record of consultation:

- On 21 September 2022, Woodside emailed AFMA advising of the proposed activity (Appendix F, reference 1.4) and provided a Consultation Information Sheet, Consultation FAQ and a fisheries map.
- On 13 October 2022, Woodside sent a follow up email (Appendix F, reference 1.68).
- On 19 October 2022, AFMA emailed Woodside:
- AFMA advised it had no specific comment on the proposal and encouraged Woodside consult with operators who have entitlements to fish within the proposed area.
 - On 1 November 2022, Woodside emailed AFMA Woodside confirmed it had provided information to relevant fishery licence holders as well as representative organisations on behalf of Commonwealth fishing licence holders who have entitlements to fish within the proposed area. (See this Consultation Report with Commonwealth and State Fisheries.)
 - On 3 February 2023, Woodside emailed AFMA with an update on the proposed activity (Appendix F, reference 1.148) and provided an updated Consultation Information Sheet and fisheries maps.
 - On 22 February 2023, Woodside sent a follow up email (Appendix F, reference 1.162).
 - On 22 May 2023, Woodside emailed AFMA requesting Commonwealth fishery licence holder contact details unrelated to this proposed activity.
 - On 30 May 2023, AFMA responded to advise there will be a change in providing this information. In a further follow up email on the same day, AFMA advised there is a fee payable for this information and a need to sign a Deed of Confidentiality.
 - On 17 July 2023, an agreement was reached with AFMA for Woodside to consult directly with Commonwealth fisheries as per contact details provided by AFMA
 under the new Deed of Confidentiality.

Summary of Feedback, Objection or Claim	Woodside Energy's Assessment of Merits of Feedback, Objection or Claim and its Response	Environment Plan Controls
AFMA provided feedback stating: They were unable to comment on individual proposals but Woodside should consult with all fishers with entitlements within the proposed area.	Woodside has addressed AFMA's feedback, including confirming that Woodside had provided information to relevant fishery licence holders as well as representative organisations on behalf of Commonwealth fishery licence holders who have entitlements to fish within the proposed area.	Woodside has assessed the potential for interaction with Commonwealth and State managed commercial fisheries in Section 4.9.2 of this EP. Woodside will provide notifications to AFMA, DAFF - Fisheries, DPIRD, WAFIC, CFA, and relevant Fishery Licence Holders that have the potential to be directly impacted by planned activities in

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- This could be done via relevant fishing industry associations; contacts were provided.
- AFMA advised they were changing the way they provided information and requested Woodside sign a Deed of Confidentiality.
- Whilst feedback has been received, there were no objections or claims.

Woodside has provided consultation information to AFMA, DAFF - Fisheries, CFA, ASBTIA, Tuna Australia, WAFIC and individual relevant licence holders.

Woodside engages in ongoing consultation throughout the life of an EP. Woodside notes that further feedback may be received as part of ongoing consultation. Should feedback be received after the EP has been accepted, it will be assessed and, where appropriate, Woodside will apply its Management of Change and Revision process (see **Section 7**).

the Operational Area prior to the commencement and at the end of the activity, as referenced in **PS 2.4.1** in this EP.

No additional measures or controls are required.

Australian Hydrographic Office (AHO)

Woodside considers it has discharged its obligations for consultation under Regulation 11A(1). Sufficient time, information and opportunity has been provided as summarised below:

- Consultation Information Sheet publicly available on the Woodside website since September 2022.
- Woodside published advertisements in a national, state and relevant local newspapers on 19 October 2022 advising of the proposed activities and requesting feedback.
- Consultation Information provided to AHO on 21 September 2022 based on their function, interest and activities.
- Woodside has addressed and responded to the AHO over an 11 month period.

Summary of information provided and record of consultation:

- On 21 September 2022, Woodside emailed the AHO advising of the proposed activity (Appendix F, reference 1.5) and provided a Consultation Information Sheet, Consultation FAQ and shipping lanes map (Appendix F, reference 1.6).
- On 23 September 2022, AHO emailed Woodside and acknowledged receipt of Woodside's consultation email.
- On 27 January 2023, Woodside emailed AHO with an update on the proposed activity (Appendix F, reference 1.123) and provided an updated Consultation Information Sheet. Woodside confirmed it would make available a shipping lane map as soon as possible.
- On 30 January 2023, AHO emailed Woodside and acknowledged receipt of Woodside's consultation email.
- On 28 February 2023, Woodside emailed AHO and provided an updated shipping lane map (Appendix F, reference 1.201).
- On 1 March 2023, AHO emailed Woodside and acknowledged receipt of Woodside's consultation email.

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Summary of Feedback, Objection or Claim	Woodside Energy's Assessment of Merits of Feedback, Objection or Claim and its Response	Environment Plan Controls
AHO has acknowledged receipt of Woodside's consultation emails. No feedback, objections or claims received despite follow up.	AHO has acknowledged receipt of Woodside's consultation emails. Woodside engages in ongoing consultation throughout the life of an EP. Should feedback be received after the EP has been accepted, it will be assessed and, where appropriate, Woodside will apply its Management of Change and Revision process (see Section 7).	Woodside will notify the AHO no less than four working weeks before operations commence, as referenced as PS 2.3.1 in this EP. No additional measures or controls are required.

Australian Maritime Safety Authority (AMSA) - Marine Safety

Woodside considers it has discharged its obligations for consultation under Regulation 11A(1). Sufficient time, information and opportunity has been provided as summarised below:

- Consultation Information Sheet publicly available on the Woodside website since September 2022.
- Woodside published advertisements in a national, state and relevant local newspapers on 19 October 2022 advising of the proposed activities and requesting feedback.
- Consultation Information provided to AMSA on 21 September 2022 based on their function, interest and activities.
- Woodside has addressed and responded to AMSA over an 11 month period.

Summary of information provided and record of consultation:

- On 21 September 2022, Woodside emailed AMSA advising of the proposed activity (Appendix F, reference 1.5) and provided a Consultation Information Sheet, Consultation FAQ and shipping lanes map (Appendix F, reference 1.6).
- On 13 October 2022 Woodside sent a follow up email (Appendix F, reference 1.66).
- On 27 January 2023, Woodside emailed AMSA with an update on the proposed activity (reference 1.123) and provided an updated Consultation Information Sheet. Woodside confirmed it would make available a shipping lane map as soon as possible.
- On 31 January 2023, AMSA emailed Woodside:
- AMSA requested information on how high in the water column the moorings actually are and whether they could obstruct shipping traffic.
- AMSA requested Woodside to confirm its current GIS data so that AMSA can map it and assess navigation safety.
- AMSA requested Woodside to send its updated Shipping Lane figures.
- AMSA provided details around notifications and contact details.
 - On 10 February 2023, AMSA emailed Woodside and reiterated its 31 January 2023 request for additional information.
 - On 15 February 2023, AMSA emailed Woodside and reiterated its 31 January 2023 request for additional information.
 - On 16 February 2023, Woodside received a phone message from AMSA requesting digital data regarding the proposed activity.

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- On 17 February 2023, Woodside had a phone conversation with AMSA to clarify the data required and was advised that AMSA would like the operational area polygons in shapefile format for the proposed activity.
- On 17 February 2023, Woodside emailed AMSA the operational area polygons in shapefile format for the proposed activity.
- On 21 February 2023, AMSA emailed Woodside:
- AMSA provided a vessel traffic plot showing AIS data and an updated vessel traffic plot for the Scarborough area of interest.
- AMSA reiterated its 31 January 2023 request for additional information.
 - On 28 February 2023, Woodside emailed AMSA:
- Woodside advised that the intention is that moorings for the Floating Production Unit (FPU) will be installed prior to FPU arrival within the Operational Area under the Subsea EP, in water depths of approximately 900-1000m. Each of the 20 moorings legs will be composed of both wire and chain components and extend approximately 1650m from the FPU, connected to a suction pile anchor. The suction piles are ~24 m high by ~8 m diameter, which will be buried with only the top exposed above the seabed (i.e. once installed ~23 m will be buried, with ~ 1-2m remain protruding above the seabed).
- Woodside noted that the Scarborough moorings depicted on AMSA's "Scabrorugh_joint_venture-2023.pdf" are not a component of the Scarborough EPs which are the subject of ongoing consultation. These appear to be metocean moorings that have since been recovered.
- Woodside provided an updated shipping lane map.
 - On 3 March 2023, AMSA emailed Woodside:
- AMSA requested clarification on the vessel traffic plots provided and how the Environment that May Be Affected (EMBA) areas will actually be affected by working vessels, support craft and associated activities. AMSA commented that the EMBAs are quite large unique areas so AMSA is curious about the extent of vessel traffic and activity within these areas and lines of traffic and charted shipping fairways.
 - On 8 March 2023, Woodside emailed AMSA (Appendix F, reference 1.203):
- Woodside advised that the EMBA is the largest spatial extent where the Petroleum Activities Program could potentially have an environmental consequence (direct or indirect impact). The broadest extent of the EMBA takes into consideration planned and unplanned activities, and for this Environment Plan (EP) is determined by a highly unlikely release of marine diesel to the environment as a result of vessel collision. The EMBA does not represent the extent of predicted impact of the highly unlikely marine diesel release. Rather, the EMBA represents the merged area of many possible paths a highly unlikely hydrocarbon release could travel depending on the weather and ocean conditions at the time of the release. This means in the highly unlikely event a hydrocarbon release does occur, the entire EMBA will not be affected and the specific and minimal part of the EMBA that is affected will only be known at the time of the release.

Summary of Feedback, Objection or Claim	Woodside Energy's Assessment of Merits of Feedback, Objection or Claim and its Response	Environment Plan Controls
AMSA has provided feedback and requested further information relating to: • Moorings for the Floating Production Unit (FPU) and	Woodside has addressed AMSA's requests and provided additional information, including: • providing the operational area polygons in shapefile format for the proposed activity. • advised that the intention is that moorings for FPU will be installed prior to FPU arrival within the Operational Area under the Subsea	Woodside will notify AMSA's JRCC at least 24–48 hours before operations commence, as referenced as PS 2.5.1 in this EP. Woodside will notify AHO no less than four working weeks before operations commence, as referenced as a PS 2.3.1 in this EP.

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	er they could obstructing traffic.		EP, in water depths of approximately 900-1000m and provided additional information on the moorings.	Woodside considers the measures and controls in the EP are appropriate.
 GIS da 	ıta	•	Provided an updated shipping map.	
will affe	eation on how the EMBA ect vessel traffic. provided details around ations and contact	Woodsi Woodsi consulta will be a	Explained the EMBA for the proposed activity. de engages in ongoing consultation throughout the life of an EP. de notes that further feedback may be received as part of ongoing ation. Should feedback be received after the EP has been accepted, it assessed and, where appropriate, Woodside will apply its Management ge and Revision process (see Section 7).	

Australian Maritime Safety Authority (AMSA) - Marine Pollution

Woodside considers it has discharged its obligations for consultation under Regulation 11A(1). Sufficient time, information and opportunity has been provided as summarised below:

- Consultation Information Sheet publicly available on the Woodside website since September 2022.
- Woodside published advertisements in a national, state and relevant local newspapers on 19 October 2022 advising of the proposed activities and requesting feedback.
- Consultation Information provided to AMSA on 21 September 2022 based on their function, interest and activities.
- Woodside has sent follow up emails seeking feedback on the proposed activities.
- Woodside has provided the AMSA with the opportunity to provide feedback over an 11 month period.

Summary of information provided and record of consultation:

- On 21 September 2022, Woodside emailed AMSA advising of the proposed activity (Appendix F, reference 1.7) and provided a Consultation Information Sheet and Consultation FAQ.
- On 28 September 2021, Woodside emailed AMSA and provided the Oil Pollution First Strike Plan (Appendix F, reference 1.57).
- On 27 January 2023, Woodside emailed AMSA with an update on the proposed activity (Appendix F, reference 1.122) and provided an updated Consultation Information Sheet.
- On 22 February 2023 Woodside sent a follow up email (Appendix F, reference 1.161).

Summary of Feedback, Objection or Claim	Woodside Energy's Assessment of Merits of Feedback, Objection or Claim and its Response	Environment Plan Controls
No feedback, objections or claims received despite follow up.	Woodside engages in ongoing consultation throughout the life of an EP. Should feedback be received after the EP has been accepted, it will be	Woodside has addressed oil pollution planning and response in Appendix D .

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assessed and, where appropriate, Woodside will apply its Management of Change and Revision process (see Section 7).	No additional measures or controls are required.
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Department of Climate Change, Energy, the Environment and Water Agriculture (DCCEEW) / Department of Agriculture, Fisheries and Forestry (DAFF) – Fisheries and Biosecurity (formerly DAWE)

Woodside considers it has discharged its obligations for consultation under Regulation 11A(1). Sufficient time, information and opportunity has been provided as summarised below:

- Consultation Information Sheet publicly available on the Woodside website since September 2022.
- Woodside published advertisements in a national, state and relevant local newspapers on 19 October 2022 advising of the proposed activities and requesting feedback.
- Consultation Information provided to DCCEEW on 21 September 2022 based on their function, interest and activities.
- Woodside has sent follow up emails seeking feedback on the proposed activities.
- Woodside has provided the DCCEEW with the opportunity to provide feedback over an 11 month period.

Summary of information provided and record of consultation:

- On 17 December 2021, Woodside emailed DAWE:
- Woodside sought clarification around the Pygmy Blue Whale CMP, the Department's Guideline and NOPSEMA's FAQ in relation to the definition of, and Woodside's interpretation of BIAs.
- Woodside requested clarification of its understanding of the documents on the DAWE website, (Blue Whale CMP) which state that "BIAs are not defined under the EPBC Act, but they are areas that are particularly important for the conservation of protected species and where aggregations of individuals display biologically important behaviour such as calving, foraging, resting or migration. BIAs have been identified using expert scientific knowledge about species' distribution abundance and behaviour".
- Woodside clarified that consequently, distribution in itself, is not a BIA (for blue whales); whereas areas where biologically important behaviour such as calving, foraging, resting or migration clearly are BIAs.
 - On 20 December 2021, DAWE emailed Woodside:
- DAWE advised that the definition provided is the agreed working definition of BIAs and this interpretation is correct, BIAs are not defined or described under the
 Environment Protection and Biodiversity Conservation Act 1999 (EPBC Act). They are however a geospatial tool used to inform regulatory decision-making given the
 biologically critical behaviours that they represent.
- DAWE advised that the assumption is correct, that the entire distribution of the blue whale is not considered a BIA. The 'distribution BIA' for the blue whale, as designated in the National Conservation Values Atlas (NCVA) does not constitute a BIA (that represents an area where biologically important behaviour is displayed, such as foraging and migration for the blue whale). DAWE believe the distribution BIA was included in the NCVA following development of the Conservation Management Plan for the Blue Whale (CMP) to flag the importance of their range.
- DAWE noted that the Blue Whale CMP states (on page 28) "it is not currently possible to define habitat critical to the survival of blue whales. Due to DAWE's limited knowledge about the distribution and abundance of these subspecies, little is currently known about the location and characteristics of these habitats. To date, the best

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information relates to biologically important areas where foraging occurs. These foraging areas can be considered important to the survival of blue whales as they seasonally support highly productive ecosystem processes on which significant aggregations of whales rely."

- DAWE advised that the Blue Whale CMP provides an indicative map of 'Pygmy blue whale distribution around Australia' which shows annual high use, known and possible foraging areas. The Blue Whale CMP also provides an indicative map of known and likely migration routes. DAWE advised that these maps may be of use.
 - On 30 March 2022, Woodside emailed DCCEEW to ensure DCCEEW was aware NOPSEMA had requested correspondence between DCCEEW and Woodside
 which must be complied with regarding blue whale distribution and BIAs. Woodside advised details of the correspondence would be included for NOPSEMA's
 assessment of this EP.
- On 30 March 2022, DCCEEW thanked Woodside for the advice and that DCCEEW had been in contact with NOPSEMA and were aware of this requirement.
- On 21 September 2022, Woodside emailed DCCEEW / DAFF Fisheries advising of the proposed activity (Appendix F, reference 1.13) and provided a Consultation Information Sheet, Consultation FAQ and fisheries map (Appendix F reference 1.14).
- On 13 October 2022, Woodside sent a follow up email (Appendix F, reference 1.71).
- On 3 February 2023, Woodside emailed DCCEEW / DAFF Fisheries with an update on the proposed activity (Appendix F, reference 1.124) and provided an updated Consultation Information Sheet, fisheries maps and Commonwealth shipwrecks information.
- On 22 February 2023, Woodside sent a follow up email (reference 1.177).

Summary of Feedback, Objection or Claim

In the course of preparing this and other Woodside EPs, DCCEEW has provided clarification around the Pygmy Blue Whale CMP, the Department's Guideline and NOPSEMA's FAQ in relation to the definition of, and Woodside's interpretation of BIAs.

Whilst feedback has been received, there were no objections or claims.

Woodside Energy's Assessment of Merits of Feedback, Objection or Claim and its Response

Woodside notes DCCEEW clarification around the Pygmy Blue Whale CMP, the Department's Guideline and NOPSEMA's FAQ in relation to the definition of BIAs. Woodside's interpretation of the Pygmy Blue Whale advice has been applied in the EP, see Section 4.6.3.

Woodside has provided consultation information to CFA, AFMA, DAFF – Fisheries ASBTIA, Tuna Australia, WAFIC and individual relevant licence holders.

Woodside engages in ongoing consultation throughout the life of an EP. Woodside notes that further feedback may be received as part of ongoing consultation. Should feedback be received after the EP has been accepted, it will be assessed and, where appropriate, Woodside will apply its Management of Change and Revision process (see **Section 7**).

Environment Plan Controls

The Environment Plan demonstrates that the proposed activities are outside the boundaries of a proclaimed Commonwealth Marine Park and identifies that there are no credible impacts to the values of any Commonwealth Marine Parks as a result of planned activities (Section 4.8). While impacts to Commonwealth Marine Parks are possible in the event of an unplanned hydrocarbon spill, Woodside considers it adopts appropriate controls to prevent a hydrocarbon spill and controls to respond in the highly unlikely event of a hydrocarbon spill, as demonstrated in Section 6.8.2 and Section 6.8.3.

The Environment Plan demonstrates that there are no known underwater heritage sites or shipwrecks within the Petroleum Activities Area and identifies that there are no credible impacts to the values of any underwater heritage or shipwrecks as a result of planned activities (**Section 4.9.1**). While impacts to underwater heritage sites or shipwrecks are possible in the event of an unplanned hydrocarbon spill, Woodside considers it adopts appropriate controls to prevent a hydrocarbon spill and controls to

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respond in the highly unlikely event of a hydrocarbon spill, as demonstrated in **Section 6.8.2** and **Section 6.8.3**.

Pygmy Blue Whale advice applied in the EP, see **Section 4.6.3**.

Woodside has assessed the relevancy of Commonwealth fisheries issues in **Section 4.9.2** of this EP.

Woodside will provide notifications to AFMA, DAFF – Fisheries, DPIRD, WAFIC, CFA, and relevant Fishery Licence Holders that have the potential to be directly impacted by planned activities in the Operational Area prior to the commencement and at the end of the activity, as referenced as **PS 2.4.1** in this EP.

Woodside has addressed maritime biosecurity issues in **Section 6** of this EP based on previous offshore activities.

No additional measures or controls are required.

Department of Defence (DoD)

Woodside considers it has discharged its obligations for consultation under Regulation 11A(1). Sufficient time, information and opportunity has been provided as summarised below:

- Consultation Information Sheet publicly available on the Woodside website since September 2022.
- Woodside published advertisements in a national, state and relevant local newspapers on 19 October 2022 advising of the proposed activities and requesting feedback.
- Consultation Information provided to DoD on 21 September 2022 based on their function, interest and activities.
- Woodside has addressed and responded to DoD over an 11 month period.

Summary of information provided and record of consultation:

- On 21 September 2022, Woodside emailed DoD advising of the proposed activity (Appendix F, reference 1.9) and provided a Consultation Information Sheet, Consultation FAQ and defence map (Appendix F, reference 1.10).
- On 13 October 2022, DoD emailed Woodside:

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- DoD advised that the activity area is located within the North Australia Exercise Area (NAXA) and restricted airspace and unexploded ordinance (UXO) may be present
 on and in the sea floor within the NAXA. All activities in the area are conducted at Woodside's own risk.
- DoD advised that the Commonwealth of Australia, represented by the Department of Defence, takes no responsibility for:
- Reporting the location and type of UXO that may be in the areas.
- Identifying or removing any UXO from these areas.
- Any loss or damage suffered or incurred by Woodside Energy or any third party arising out of, or directly related to, UXO in the area.
- DoD require the following notifications:
- DoD five weeks prior to the commencement of activities.
- Airservices Australia (if Notice to Airmen notification is required for activities in Restricted Airspace).
- AHO three weeks prior to the commencement of activities.
 - On 3 November 2022, Woodside emailed DoD:
- Woodside noted the contacts provided and the advice regarding risks and notification requirements. Woodside confirmed it will notify the Department of Defence at least five weeks prior to the commencement of activities.
- Woodside advised it will confirm restricted air space status with the Department of Defence as part of its commencement of activity notification.
- Woodside advise that at its request, AHO will be notified four weeks prior to the start of activities.
 - On 27 January 2023, Woodside emailed DoD with an update on the proposed activity (Appendix F, reference 1.125) and provided an updated Consultation Information Sheet.
- On 20 February 2023, DoD emailed Woodside:
- DoD reiterated its previous advice provided.
- DoD provided Woodside with a figure outlining its restricted airspace and Defence Training Areas off the WA Coast.
 - On 13 March 2023, Woodside emailed DoD and provided an updated defence zone map (Appendix F, reference 1.206).

Summary of Feedback, Objection or Claim	Woodside Energy's Assessment of Merits of Feedback, Objection or Claim and its Response	Environment Plan Controls
DoD has provided feedback relating to: • the location of the activity in proximity to the NAXA and the potential presence of UXO. • Notification requirements. DoD has provided advice relating to:	Woodside has reviewed the proposed activity and the location of the NAXA and UXOs to understand the potential for UXOs to be within the Operational Area. The Learmonth Air Weapons Range (AWR) practice area is within the Consultation Area and approximately 20 km south of the operational area and the location of any UXOs (known to occur) are near Bessieres Island which is located 190 km from the Operational Area. Based on the locations of the proposed activity and potential UXOs it was determined that there is no credible risk from UXOs for the proposed activity.	Woodside has addressed DoD's expectations on notifications – Defence, restricted air space and AHO (PS 2.3.1 and PS 2.7.1, Table 7-7). AHO have been consulted on the activity and are included in Woodside's activity notification protocols. AHO will be notified four weeks prior to the start of activities. Woodside considers the measures and controls in the EP are appropriate. No additional measures or controls are required.

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 Details of its restricted airspace and Defence Training Areas off the WA Coast. Woodside acknowledges the potential presence of UXOs and has considered this in its risk assessment planning.

Woodside engages in ongoing consultation throughout the life of an EP. Woodside notes that further feedback may be received as part of ongoing consultation. Should feedback be received after the EP has been accepted, it will be assessed and, where appropriate, Woodside will apply its Management of Change and Revision process (see **Section 7**).

Department of Primary Industries and Regional Development (DPIRD)

Woodside considers it has discharged its obligations for consultation under Regulation 11A(1). Sufficient time, information and opportunity has been provided as summarised below:

- Consultation Information Sheet publicly available on the Woodside website since September 2022.
- Woodside published advertisements in a national, state and relevant local newspapers on 19 October 2022 advising of the proposed activities and requesting feedback.
- Consultation Information provided to DPIRD on 21 September 2022 based on their function, interest and activities.
- Woodside has addressed and responded to DPIRD over an 11 month period.

Summary of information provided and record of consultation:

- On 21 September 2022, Woodside emailed DPIRD (Appendix F, reference 1.15) advising of the proposed activity and provided a Consultation Information Sheet, Consultation FAQ and fisheries map.
- On 13 October 2022 Woodside sent a follow up email (Appendix F, reference 1.75).
- On 3 February 2023, Woodside emailed DPIRD with an update on the proposed activity (Appendix F, reference 1.143) and provided an updated Consultation Information Sheet and state fisheries maps.
- On 17 February 2023, DPIRD emailed Woodside:
- DPIRD advised that as the activity is proposed for waters unlikely to influence fishing activities it has no further comments at this time.
- On 24 February 2023, Woodside emailed DPIRD:
- Woodside confirmed it has consulted state commercial fishery licence holders and recreational fishery licence holders that are active within the EMBA for the proposed activity.

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Summary of Feedback, Objection or Claim	Woodside Energy's Assessment of Merits of Feedback, Objection or Claim and its Response	Environment Plan Controls
DPIRD has provided feedback that the activity is proposed for waters unlikely to influence fishing activities and it has no further comments at this time. Whilst feedback has been received, there were no objections or claims.	Woodside confirmed with DPIRD it has consulted state commercial fishery licence holders and recreational fishery licence holders that are active within the EMBA for the proposed activity. (See this Consultation Report with Commonwealth and State Fisheries.) Woodside has provided consultation information to DPIRD, WAFIC, and individual relevant licence holders. Woodside engages in ongoing consultation throughout the life of an EP. Woodside notes that further feedback may be received as part of ongoing consultation. Should feedback be received after the EP has been accepted, it will be assessed and, where appropriate, Woodside will apply its Management of Change and Revision process (see Section 7).	Woodside has assessed the relevancy of State fisheries issues in Section 4.9.2 of this EP. Woodside will provide notifications to AFMA, DAFF - Fisheries, DPIRD, WAFIC, CFA, and relevant Fishery Licence Holders that have the potential to be directly impacted by planned activities in the Operational Area prior to the commencement and at the end of the activity, as referenced as PS 2.4.1 in this EP. No additional measures or controls are required.

Department of Transport (DoT)

Woodside considers it has discharged its obligations for consultation under Regulation 11A(1). Sufficient time, information and opportunity has been provided as summarised below:

- Consultation Information Sheet publicly available on the Woodside website since September 2022.
- Woodside published advertisements in a national, state and relevant local newspapers on 19 October 2022 advising of the proposed activities and requesting feedback.
- Consultation Information provided to DoT on 21 September 2022 based on their function, interest and activities.
- Woodside has addressed and responded to DoT over an 11 month period.

Summary of information provided and record of consultation:

- On 21 September 2022, Woodside emailed DoT advising of the proposed activity (Appendix F, reference 1.17) and provided a Consultation Information Sheet and Consultation FAQ.
- On 28 September 2022, Woodside emailed DoT and provided a copy of the First Strike Plan (Appendix F, reference 1.56).
- On 24 October 2022, DoT emailed Woodside to advise that they had no queries and requested that Woodside provide them with a final accepted version when available.
- On 27 January 2023, Woodside emailed DoT with an update on the proposed activity (Appendix F, reference 1.122) and provided an updated Consultation Information Sheet.

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- On 7 February 2023, DoT emailed Woodside to request that if there is any risk of a spill impacting State waters from any of the proposed activities, Woodside must consult DoT (Marine Oil Pollution).
- On 22 February 2023, Woodside emailed DoT to confirm that if there is a risk of a spill impacting State waters, the Department of Transport (Marine Oil Pollution) will be consulted.

Summary of Feedback, Objection or Claim	Woodside Energy's Assessment of Merits of Feedback, Objection or Claim and its Response	Environment Plan Controls
DoT has provided feedback relating to: The draft Oil Pollution First Strike Plan and a request for a final accepted version of the plan when available. Consultation requirements in the event of a spill impacting State waters from any of the proposed activities. Whilst feedback has been received, there were no objections or claims.	Woodside has confirmed that if there is a risk of a spill impacting State waters, the Department of Transport (Marine Oil Pollution) will be consulted. Woodside will send DoT a copy of the First Strike Plan once accepted. Woodside engages in ongoing consultation throughout the life of an EP. Woodside notes that further feedback may be received as part of ongoing consultation. Should feedback be received after the EP has been accepted, it will be assessed and, where appropriate, Woodside will apply its Management of Change and Revision process (see Section 7).	Woodside will provide DoT with a copy of the accepted Oil Pollution First Strike Plan, as referenced in the OSPRMA (Appendix D). Woodside will consult DoT if there is a spill impacting State water from the proposed activity, as referenced in the OSPRMA (Appendix D). No additional measures or controls are required.

Department of Planning, Lands and Heritage (DPLH)

Woodside considers it has discharged its obligations for consultation under Regulation 11A(1). Sufficient time, information and opportunity has been provided as summarised below:

- Consultation Information Sheet publicly available on the Woodside website since September 2022.
- Woodside published advertisements in a national, state and relevant local newspapers on 19 October 2022 advising of the proposed activities and requesting feedback.
- Consultation Information provided to DPLH on 1 February 2023 based on their function, interest and activities.
- Woodside has addressed and responded to DPLH over a 7 month period.

Summary of information provided and record of consultation:

- On 1 February 2023, Woodside emailed DPLH advising of the proposed activity (Appendix F, reference 1.136) and provided a Consultation Information Sheet and information on State waters shipwrecks information (Appendix F, reference 1.138).
- On 17 February 2023, DPLH emailed Woodside to advise that a Heritage Officer will be in contact regarding this referral.
- On 22 February 2022, Woodside sent a follow up email (Appendix F, reference 1.181).

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- On 28 February 2023, DPLH confirmed that it was still finalising comments, to be provided as soon as possible.
- On 1 March 2023, Woodside responded and thanked DPLH for the update.
- On 3 May 2023, Woodside sent an email to DPLH noting its previous advice that it was finalising comments on the proposed activities and requested any feedback (Appendix F, Reference 1.213).
- On 9 May 2023, Woodside sent an email to DPLH regarding this EP and followed up on feedback with respect to the proposed activities.
- On 9 May 2023, DPLH responded to advise no adverse heritage impacts to any place entered into the State Register of Heritage Places had been identified. It further stated the Western Australian Museum is the delegated authority for management of Commonwealth historic shipwrecks and relics in Western Australia and should be contacted for advice regarding any maritime archaeological impacts.
- On 9 May 2023, Woodside emailed to thank DPLH for confirmation regarding heritage impacts and that Woodside would contact the Western Australian Museum for advice regarding any maritime archaeological impacts in the event that any impacts occurred.

Summary of Feedback, Objection or Woodside Energy's Assessment of Merits of Feedback, Objection **Environment Plan Controls** Claim or Claim and its Response DPLH advised no adverse heritage Woodside confirmed it would contact the Western Australian Museum The Environment Plan demonstrates that there are no impacts to any place entered into the for advice regarding any maritime archaeological impacts in the event known underwater heritage sites or shipwrecks within State Register of Heritage Places had that any impacts occurred. the Petroleum Activities Area and identifies that there been identified and that the Western are no credible impacts to the values of any underwater Woodside consulted the Western Australian Museum for the proposed Australian Museum is the delegated heritage or shipwrecks as a result of planned activities activities (see Consultation Report below). authority for management of (Section 4.9.1). While impacts to underwater heritage Commonwealth historic shipwrecks and Woodside engages in ongoing consultation throughout the life of an sites or shipwrecks are possible in the event of an relics in Western Australia and should EP. Woodside notes that further feedback may be received as part of unplanned hydrocarbon spill, Woodside considers it be contacted for advice in the event of ongoing consultation. Should feedback be received after the EP has adopts appropriate controls to prevent a hydrocarbon any maritime archaeological impacts. been accepted, it will be assessed and, where appropriate, Woodside spill and controls to respond in the highly unlikely event will apply its Management of Change and Revision process (see Whilst feedback has been received, of a hydrocarbon spill, as demonstrated in Section 6.8.2 Section 7). there were no objections or claims. and Section 6.8.3. No additional measures or controls are required.

Commonwealth and WA State Government Departments or Agencies – Environment

Director of National Parks (DNP)

Woodside considers it has discharged its obligations for consultation under Regulation 11A(1). Sufficient time, information and opportunity has been provided as summarised below:

Consultation Information Sheet publicly available on the Woodside website since September 2022.

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- Woodside published advertisements in a national, state and relevant local newspapers on 19 October 2022 advising of the proposed activities and requesting feedback.
- Consultation Information provided to DNP on 21 September 2022 based on their function, interest and activities.
- Woodside has addressed and responded to DNP over an 11 month period.

Summary of information provided and record of consultation:

- On 21 September 2022, Woodside emailed DNP advising of the proposed activity (Appendix F, reference 1.12) and provided a Consultation Information Sheet and Consultation FAQ
- On 13 October 2022 Woodside sent a follow up email (Appendix F, reference 1.73).
- On 2 December 2022, DNP emailed Woodside and noted that the planned activities do not overlap any Australian Marine Parks. Therefore, there are no authorisation requirements from the DNP.
- DNP requested Woodside ensures that the EP:
 - identifies and manages all impacts and risks on Australian marine park values (including ecosystem values) to an acceptable level and has considered all options to avoid or reduce them to ALARP.
- clearly demonstrates that the activity will not be inconsistent with the management plan.
- DNP provided reference information on the North-west Marine Parks Management Plan 2018 Network. DNP confirm it does to require further notification of progress
 made in relation to this activity unless details regarding the activity change and result in an overlap with or new impact to a marine park, or for emergency responses.
- DNP provided instructions on emergency response notifications and advised that notifications should include:
 - titleholder details
 - time and location of the incident (including name of marine park likely to be affected)
 - o proposed response arrangements as per the Oil Pollution Emergency Plan (e.g. dispersant, containment, etc.)
 - o confirmation of providing access to relevant monitoring and evaluation reports when available; and
 - o contact details for the response coordinator.
 - On 27 January 2023, Woodside emailed DNP with an update on the proposed activity (Appendix F, reference 1.122) and provided an updated Consultation Information Sheet.
 - On 22 February 2023, Woodside emailed DNP with a reminder that the consultation period is closing soon (Appendix F, Reference 1.161)
 - On 24 February 2023, DNP emailed Woodside:

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- DNP advised they have no further comment or objections and claims on the proposed activity.
- DNP noted that comments on the proposed activity were previously provided to Woodside on 2 December 2022.
- DNP requested clarification on the operational area (OA). The Director of National Parks considers the OA to encompass operational activities such as line turns / repositioning, equipment maintenance, deployment and recovery, crew change and resupply. These are offshore petroleum activities and Commonwealth environment regulatory matters and, as such, should be included in the EP so relevant risks are assessed and effective mitigation applied.
 - On 8 March 2023, Woodside emailed DNP:
 - Woodside acknowledged the comments already provided by DNP previously on each of the relevant EPs and that DNP has no further comment or objections and claims.
 - Woodside advised that copies of DNP's previous responses have been received and have been addressed where relevant within each of the proposed EPs.
 - Woodside advised that for the purposes of this EP, the following Operational Area will apply:
 - o For the gravimetry activities, the Operational Area encompasses a radius of 1000 m around location of the outermost concrete pads, in which gravimetry preparation and survey activities will take place and will be managed under this EP. The 1000 m (radius) Operational Area around subsea installation allows for the movement and positioning of vessels.
 - For the subsea installation activities, the Operational Area encompasses a radius of 1500 m around location of subsea infrastructure, in which subsea installation activities will take place and will be managed under this EP. The 1500 m (radii) Operational Area around subsea installation allows for the movement and positioning of vessels.
 - For the mooring pre-lay activities, the Operational Area encompasses a radius of 2000 m around future location of FPU, in which mooring pre-lay activities will take place and will be managed under this EP. The 2000 m (radius) Operational Area around future FPU location allows for moorings to be deployed and the movement and positioning of vessels.
 - On 19 March 2023, Woodside emailed DNP seeking a copy of DNP's feedback for the Scarborough Subsea EP on 2 December 2022.
 - On 5 April 2023, DNP resent DNP's email dated 2 December 2022.
 - On 5 May 2023, Woodside thanked DNP in an email for resending DNP's email of 2 December 2022. Woodside noted DNP's confirmation that planned activities do
 not overlap any Australian Marine Parks (AMPs); that there are no authorisation requirements from the DNP, and that there are no claims or objections at this time.
 Woodside stated it would contact DNP if there were any changes to the activity in the future which could result in an overlap with or new impact to a marine park, or
 for emergency responses.

Summary of Feedback, Objection or Claim	Woodside Energy's Assessment of Merits of Feedback, Objection or Claim and its Response	Environment Plan Controls
DNP has provided feedback, including: DNP noted that that the planned activities do not overlap any Australian Marine Parks. Therefore, there are no	previously on each of the relevant EPs and that DNP has no further comment or objections and claims.	The Environment Plan demonstrates that the proposed activities are outside the boundaries of a proclaimed Commonwealth Marine Park and identifies that there are no credible impacts to the values of any Commonwealth Marine Parks as a result of planned activities (Section 4.8). While impacts to Commonwealth Marine Parks are

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- authorisation requirements from the DNP.
- DNP requested Woodside ensures that the EP:
- identifies and manages all impacts and risks on Australian marine park values (including ecosystem values) to an acceptable level and has considered all options to avoid or reduce them to ALARP.
- clearly demonstrates that the activity will not be inconsistent with the management plan.
- provided instructions on emergency response notifications.
- advised it had no further comment or objections and claims on the proposed activity.
- requested clarification on the operational area.

- advised that copies of DNP's previous responses have been received and have been addressed where relevant within each of the proposed EPs.
- provided additional information on the operational area.

Woodside engages in ongoing consultation throughout the life of an EP. Woodside notes that further feedback may be received as part of ongoing consultation. Should feedback be received after the EP has been accepted, it will be assessed and, where appropriate, Woodside will apply its Management of Change and Revision process (see **Section 7**).

possible in the event of an unplanned hydrocarbon spill, Woodside considers it adopts appropriate controls to prevent a hydrocarbon spill and controls to respond in the highly unlikely event of a hydrocarbon spill, as demonstrated in **Section 6.8.2** and **Section 6.8.3**.

This EP demonstrates how Woodside will identify and manage all impacts and risks on Australian marine park values (including ecosystem values) to an ALARP and acceptable level and that the activity is not inconsistent with the management plan (Section 6.9).

Woodside will ensure DNP is made aware of any incidences within a marine park for the activity, as per the commitment in the Oil Pollution First Strike Plan (**Appendix H**).

No additional measures or controls are required.

Department of Biodiversity, Conservation and Attractions (DBCA)

Woodside considers it has discharged its obligations for consultation under Regulation 11A(1). Sufficient time, information and opportunity has been provided as summarised below:

- Consultation Information Sheet publicly available on the Woodside website since September 2022.
- Woodside published advertisements in a national, state and relevant local newspapers on 19 October 2022 advising of the proposed activities and requesting feedback.
- Consultation Information provided to DBCA on 21 September 2022 based on their function, interest and activities.
- Woodside has addressed and responded to DBCA over an 11 month period.

Summary of information provided and record of consultation:

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- On 21 September 2022, Woodside emailed DBCA advising of the proposed activity (Appendix F, reference 1.20) and provided a Consultation Information Sheet and Consultation FAQ.
- On 6 October 2022, DBCA emailed Woodside advising that based on the documentation provided for review and other readily available information, DBCA has no comments in relation to its responsibilities under the Conservation and Land Management Act 1984 and Biodiversity Conservation Act 2016.
- On 31 October 2022, Woodside emailed DBCA and noted that it has no comments on the proposed activities.
- On 27 January 2023, Woodside emailed DBCA with an update on the proposed activity (Appendix F, reference 1.122) and provided an updated Consultation Information Sheet.
- On 8 February 2023, DBCA emailed Woodside to advise that based on the documentation provided for review and other readily available information, DBCA has no comments in relation to its responsibilities under the Conservation and Land Management Act 1984 and Biodiversity Conservation Act 2016.

Summary of Feedback, Objection or Claim	Woodside Energy's Assessment of Merits of Feedback, Objection or Claim and its Response	Environment Plan Controls
DBCA has advised it has no comments on the proposed activity. Whilst feedback has been received, there were no objections or claims.	Woodside acknowledges that DBCA had no comment on the proposed activities. Woodside engages in ongoing consultation throughout the life of an EP. Woodside notes that further feedback may be received as part of ongoing consultation. Should feedback be received after the EP has been accepted, it will be assessed and, where appropriate, Woodside will apply its Management of Change and Revision process (see Section 7).	The Environment Plan demonstrates that the proposed activities are outside the boundaries of a proclaimed State Marine Park and identifies that there are no credible impacts to the values of any State Marine Parks as a result of planned activities (Section 4.8). While impacts to State Marine Parks are not expected in the event of an unplanned hydrocarbon spill, Woodside considers it adopts appropriate controls to prevent a hydrocarbon spill and controls to respond in the highly unlikely event of a hydrocarbon spill, as demonstrated in Section 6.8.2 and Section 6.8.3. No additional measures or controls are required.

Commonwealth and State Government Departments or Agencies - Industry

Department of Industry, Science and Resources (DISR) (formerly DISER)

Woodside considers it has discharged its obligations for consultation under Regulation 11A(1). Sufficient time, information and opportunity has been provided as summarised below:

- Consultation Information Sheet publicly available on the Woodside website since September 2022.
- Woodside published advertisements in a national, state and relevant local newspapers on 19 October 2022 advising of the proposed activities and requesting feedback.
- Consultation Information provided to DISR on 21 September 2022 based on their function, interest and activities.

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- Woodside has sent follow up emails seeking feedback on the proposed activities.
- Woodside has provided the DISR with the opportunity to provide feedback over an 11 month period.

Summary of information provided and record of consultation:

- On 21 September 2022, Woodside emailed DISER advising of the proposed activity (Appendix F, reference 1.11) and provided a consultation Information Sheet and Consultation FAQ.
- On 13 October 2022, Woodside sent a follow up email (Appendix F, reference 1.72).
- On 27 January 2023, Woodside emailed DISR with an update on the proposed activity (Appendix F, reference 1.122) and provided an updated Consultation Information Sheet.
- On 22 February 2023, Woodside sent a follow up email (Appendix F, reference 1.161).

Summary of Feedback, Objection or Claim	Woodside Energy's Assessment of Merits of Feedback, Objection or Claim and its Response	Environment Plan Controls
received despite follow up.	Woodside engages in ongoing consultation throughout the life of an EP. Should feedback be received after the EP has been accepted, it will be assessed and, where appropriate, Woodside will apply its Management of Change and Revision process (see Section 7).	No additional measures or controls are required.

Department of Mines, Industry Regulation and Safety (DMIRS)

Woodside considers it has discharged its obligations for consultation under Regulation 11A(1). Sufficient time, information and opportunity has been provided as summarised below:

- Consultation Information Sheet publicly available on the Woodside website since September 2022.
- Woodside published advertisements in a national, state and relevant local newspapers on 19 October 2022 advising of the proposed activities and requesting feedback.
- Consultation Information provided to DMIRS on 21 September 2022 based on their function, interest and activities.
- Woodside has sent follow up emails seeking feedback on the proposed activities.
- Woodside has provided the DMIRS with the opportunity to provide feedback over an 11 month period.

Summary of information provided and record of consultation:

- On 21 September 2022, Woodside emailed DMIRS advising of the proposed activity (Appendix F, reference 1.16) and provided a consultation Information Sheet and Consultation FAQ.
- On 13 October 2022, Woodside sent a follow up email (Appendix F, reference 1.74).

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- On 27 January 2023, Woodside emailed DMIRS with an update on the proposed activity (Appendix F, reference 1.122) and provided an updated Consultation Information Sheet.
- On 22 February 2023, Woodside sent a follow up email (Appendix F, reference 1.161).

Summary of Feedback, Objection or Claim	Woodside Energy's Assessment of Merits of Feedback, Objection or Claim and its Response	Environment Plan Controls
No feedback, objections or claims received despite follow up.	Should feedback be received after the EP has been accepted, it will be assessed and, where appropriate, Woodside will apply its Management of Change and Revision process (see Section 7).	Woodside will provide notifications to DMIRS prior to the commencement and at the end of the activity, as referenced at Section 7.10.2.1 in this EP. No additional measures or controls are required.

Commonwealth Commercial fisheries and representative bodies

Western Deepwater Trawl Fishery

Woodside considers it has discharged its obligations for consultation under Regulation 11A(1). Sufficient time, information and opportunity has been provided as summarised below:

- Consultation Information Sheet publicly available on the Woodside website since September 2022.
- Woodside published advertisements in a national, state and relevant local newspapers on 19 October 2022 advising of the proposed activities and requesting feedback.
- Consultation Information provided to Western Deepwater Trawl Fishery on 21 September 2022 based on their function, interest and activities.
- Woodside has sent follow up emails seeking feedback on the proposed activities.
- Woodside has provided the Western Deepwater Trawl Fishery with the opportunity to provide feedback over an 11 month period.

Summary of information provided and record of consultation:

- On 21 September 2022, Woodside emailed licence holders advising of the proposed activity (Appendix F, reference 1.48) and provided a Consultation Information Sheet, Consultation FAQ and fisheries map.
- On 13 October 2022, Woodside sent a follow up email (Appendix F, reference 1.69).
- On 3 February 2023, Woodside emailed licence holders with an update on the proposed activity (Appendix F, reference 1.139) and provided an updated Consultation Information Sheet and fisheries map.
- On 22 February 2023 Woodside sent a follow up email (Appendix F, reference 1.171).

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Summary of Feedback, Objection or Claim	Woodside Energy's Assessment of Merits of Feedback, Objection or Claim and its Response	Environment Plan Controls
No feedback, objections or claims received despite follow up.	Woodside has provided consultation information to AFMA, DAFF – Fisheries, CFA, ASBTIA, Tuna Australia and individual relevant licence holders. Woodside engages in ongoing consultation throughout the life of an EP. Should feedback be received after the EP has been accepted, it will be assessed and, where appropriate, Woodside will apply its Management of Change and Revision process (see Section 7).	Woodside has assessed the relevancy of Commonwealth fisheries issues in Section 4.9.2 of this EP. Woodside will provide notifications to AFMA, DAFF — Fisheries, DPIRD, WAFIC, CFA, and relevant Fishery Licence Holders that have the potential to be directly impacted by planned activities in the Operational Area prior to the commencement and at the end of the activity, as referenced as PS 2.4.1 in this EP. No additional measures or controls are required.

North West Slope and Trawl Fishery

Woodside considers it has discharged its obligations for consultation under Regulation 11A(1). Sufficient time, information and opportunity has been provided as summarised below:

- Consultation Information Sheet publicly available on the Woodside website since September 2022.
- Woodside published advertisements in a national, state and relevant local newspapers on 19 October 2022 advising of the proposed activities and requesting feedback.
- Consultation Information provided to North West Slope and Trawl Fishery on 3 February 2023 based on their function, interest and activities.
- Woodside has sent a follow up email(s) seeking feedback on the proposed activities.
- Woodside has provided North West Slope and Trawl Fishery with the opportunity to provide feedback over a 7 month period.

Summary of information provided and record of consultation:

- On 3 February 2023, Woodside emailed licence holders on the proposed activity (Appendix F, reference 1.139) and provided an updated Consultation Information Sheet and fisheries map.
- On 22 February 2023 Woodside sent a follow up email (Appendix F, reference 1.171).

Summary of Feedback, Objection or Claim	Woodside Energy's Assessment of Merits of Feedback, Objection or Claim and its Response	Environment Plan Controls
· •	1	Woodside has assessed the relevancy of Commonwealth fisheries issues in Section 4.9.2 of this EP.
	i vvoousiue enuaues in onuoniu consultation tinouunout the life of an Er .	Woodside will provide notifications to AFMA, DAFF – Fisheries, DPIRD, WAFIC, CFA, and relevant Fishery

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Change and Revision process (see Section 7).	Licence Holders that have the potential to be directly impacted by planned activities in the Operational Area prior to the commencement and at the end of the activity, as referenced as PS 2.4.1 in this EP.
	No additional measures or controls are required.

Western Tuna and Billfish Fishery

Woodside considers it has discharged its obligations for consultation under Regulation 11A(1). Sufficient time, information and opportunity has been provided as summarised below:

- Consultation Information Sheet publicly available on the Woodside website since September 2022.
- Woodside published advertisements in a national, state and relevant local newspapers on 19 October 2022 advising of the proposed activities and requesting feedback.
- Consultation Information provided to Western Tuna and Billfish Fishery on 3 February 2023 based on their function, interest and activities.
- Woodside has sent follow up emails seeking feedback on the proposed activities.
- Woodside has provided the Western Tuna and Billfish Fishery with the opportunity to provide feedback over a 7 month period.

Summary of information provided and record of consultation:

- On 3 February 2023, Woodside emailed licence holders on the proposed activity (Appendix F, reference 1.140) and provided an updated Consultation Information Sheet and fisheries map.
- On 22 February 2023 Woodside sent a follow up email (Appendix F, reference 1.183).

Summary of Feedback, Objection or Claim	Woodside Energy's Assessment of Merits of Feedback, Objection or Claim and its Response	Environment Plan Controls
No feedback, objections or claims received despite follow up.	Woodside has provided consultation information to AFMA, DAFF – Fisheries, CFA, ASBTIA, Tuna Australia and individual relevant licence holders. Woodside engages in ongoing consultation throughout the life of an EP. Should feedback be received after the EP has been accepted, it will be assessed and, where appropriate, Woodside will apply its Management of Change and Revision process (see Section 7).	Woodside has assessed the relevancy of Commonwealth fisheries issues in Section 4.9.2 of this EP. Woodside will provide notifications to AFMA, DAFF — Fisheries, DPIRD, WAFIC, CFA, and relevant Fishery Licence Holders that have the potential to be directly impacted by planned activities in the Operational Area prior to the commencement and at the end of the activity, as referenced as PS 2.4.1 in this EP. No additional measures or controls are required.

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Commonwealth Fisheries Association (CFA)

Woodside considers it has discharged its obligations for consultation under Regulation 11A(1). Sufficient time, information and opportunity has been provided as summarised below:

- Consultation Information Sheet publicly available on the Woodside website since September 2022.
- Woodside published advertisements in a national, state and relevant local newspapers on 19 October 2022 advising of the proposed activities and requesting feedback.
- Consultation Information provided to CFA on 21 September 2022 based on their function, interest and activities.
- Woodside has addressed and responded to the CFA over an 11 month period.

Summary of information provided and record of consultation:

- On 21 September 2022, Woodside emailed CFA advising of the proposed activity (Appendix F, reference 1.24) and provided a Consultation Information Sheet, Consultation FAQ and fisheries map
- On 13 October 2022, Woodside sent a follow up email (Appendix F, reference 1.79).
- On 3 February 2023, Woodside emailed CFA with an update on the proposed activity (Appendix F, reference 1.139) and provided an updated Consultation Information Sheet and fisheries map.
- On 22 February 2023 Woodside sent a follow up email (Appendix F, reference 1.171).
- On 22 February 2023, CFA emailed Woodside:
- CFA advised that it is not resourced to give feedback on Woodside's Environment Plan. CFA requested to direct enquiries to the associations that represent the directly affected fisheries/fishers.
- CFA noted that the increasing volume of requests for consultation on EP from oil and gas and more recently windfarm proposals are beyond the capacity of most associations. For this reason please be prepared to engage those associations on a fee for service basis.
- On 15 March 2023. Woodside emailed CFA:
- Woodside confirmed it has provided consultation information directly to fishery licence holders that it has assessed as 'relevant persons' for the proposed EP, as well as to their fishery representative bodies.
- As per Woodside's ongoing consultation approach, feedback continues to be assessed and responded to, as required, through the life of an EP.

Summary of Feedback, Objection or Claim	Woodside Energy's Assessment of Merits of Feedback, Objection or Claim and its Response	Environment Plan Controls
•	, ,	Woodside has assessed the relevancy of Commonwealth fisheries issues in Section 4.9.2 of this EP.

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consult with fishery licence holders directly.

Whilst feedback has been received, there were no objections or claims.

assessed as 'relevant persons' for the proposed EP as well as their fishery representative bodies.

Woodside has provided consultation information to AFMA, DAFF – Fisheries, CFA, ASBTIA, Tuna Australia and individual relevant licence holders.

Woodside engages in ongoing consultation throughout the life of an EP. Woodside notes that further feedback may be received as part of ongoing consultation. Should feedback be received after the EP has been accepted, it will be assessed and, where appropriate, Woodside will apply its Management of Change and Revision process (see **Section 7**).

Woodside will provide notifications to AFMA, DAFF – Fisheries, DPIRD, WAFIC, CFA, and relevant Fishery Licence Holders that have the potential to be directly impacted by planned activities in the Operational Area prior to the commencement and at the end of the activity, as referenced as **PS 2.4.1** in this EP.

No additional measures or controls are required.

Tuna Australia

Woodside considers it has discharged its obligations for consultation under Regulation 11A(1). Sufficient time, information and opportunity has been provided as summarised below:

- Consultation Information Sheet publicly available on the Woodside website since September 2022.
- Woodside published advertisements in a national, state and relevant local newspapers on 19 October 2022 advising of the proposed activities and requesting feedback.
- Consultation Information provided to Tuna Australia on 21 September 2022 based on their function, interest and activities.
- Woodside has addressed and responded to Tuna Australia over an 11 month period.

Summary of information provided and record of consultation:

- On 21 September 2022, Woodside emailed Tuna Australia advising of the proposed activity (Appendix F, reference 1.30) and provided a Consultation Information Sheet, FAQ and fisheries map.
- On 22 September 2022, Tuna Australia emailed Woodside and provided Woodside with a service agreement template for a working relationship with Tuna Australia to assist Woodside with consultation with its sector when developing submissions.
- On 3 February 2023, Woodside emailed Tuna Australia with an update on the proposed activity (Appendix F, reference 1.139) and provided an updated Consultation Information Sheet and fisheries map.
- On 15 March 2023, Woodside emailed Tuna Australia:

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- Woodside advised that the level of feedback provided by an organisation, if any, is at the person or organisation's discretion.
- Woodside advised it would be happy to meet with Tuna Australia to provide an overview of the proposed activities, how Woodside develops its EPs and the extensive controls Woodside has in place to reduce impacts to as low as reasonable practical (ALARP) and acceptable level. Woodside advised that the aim is to provide an efficient and simple way to obtain feedback and to assist in an understanding of Woodside's activities.
- Woodside advised that as per Woodside's ongoing consultation approach, feedback continues to be assessed and responded to, as required, through the life of an EP.
 - On 15 March 2023, Tuna Australia emailed Woodside and attached what it described as 'an industry position statement for engaging with energy companies seeking consultation advice from stakeholders on environmental plans and project proposals'. This included:
- An overview of Tuna Australia's functions, interests and activities as well as the organisation's company objectives.
- The geographic areas that Tuna Australia represents by membership Statutory Fishing Rights.
- A recommendation that project proponents also engage with the Australian Southern Bluefin Tuna Industry Association for any proposals in the Southern Bluefin Tuna fishing area.
- The position that Tuna Australia considers itself a 'relevant person' consistent with NOPSEMA guidelines.
- A request that Tuna Australia be contacted when any proposed activity has the potential to impact vessel navigation, fishing activities, and/or the conservation of fish resources consistent with the Offshore Petroleum and Greenhouse Gas Storage Act 2006.
- A request for a map from proponents of the proposed activity to determine if its member interests may be affected on a case-by-case basis.
- A request that where potential effects exist, there is a need for a service agreement. Tuna Australia advised it can no longer coordinate consultation with offshore energy activities on behalf of Tuna Australia's members without a service agreement in place. Tuna Australia requests proponents execute Tuna Australia's services agreement and provide information in a written succinct manner including estimated boundaries for extent of planned activity impacts (i.e. artificial light, noise, discharges etc) as well as activities within the operational area. This advice will be distributed to members and non-members holding SFRs in the Eastern (114 concession holders) and Western (61 concession holders) Tuna and Billfish Fisheries for comment. Information provided would be relevant to tuna and billfish fisheries in the area that may affect vessel navigation, fishing activities, and/or the conservation of fish resources based on the planned aspects of the activity, and proposed control measures to manage impacts.
- Tuna Australia noted that it wishes to engage constructively with project proponents for all situations where there is potential for conflict with vessel navigation, access to fishing area and/or gear, and the biology of target fish and baitfish. Advice provided can change annually due to the dynamic nature of its fisheries.
- Tuna Australia encouraged companies requiring advice from its sector to enter into a consultation services agreement with Tuna Australia to support their applications.
 Noting that Tuna Australia may be able to provide information on vessel navigation, fishing activities and/or the conservation of fish resources that may be affected that is not publicly available and will be an important input to environmental impact and risk assessment processes.
 - On 17 May 2023, Woodside emailed Tuna Australia thanking it for its position statement and:
- Noted the level of feedback provided by an organisation, if any, is at the person or organisation's discretion.
- Woodside stated it does not have an expectation that organisations provide a report or engage a consultant for consultation or provide feedback on their behalf.
- Woodside stated it is open to suggestions from Tuna Australia as to ways to improve efficiency and simplicity for feedback so that the process is manageable.
- Woodside reiterated it would be happy to meet with Tuna Australia to provide an overview of our proposed activities, how we develop our environment plans and the
 extensive controls we have in place to reduce impacts to as low as reasonably practical (ALARP) and acceptable level.
 - On 26 May 2023, Woodside had a phone call with the Tuna Australia CEO and:

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- Explained that Woodside would like to discuss a path forward following receipt of Tuna Australia's Position Statement across its EP activities, including the activities proposed under this EP.
- Noted Tuna Australia's correspondence to NOPSEMA and copied to Woodside dated 17 May 2023.
- Noted Tuna Australia's previous EP consultation feedback that Woodside had responded to with respect to unrelated EPs.
- Reiterated that Woodside does not expect Tuna Australia to provide a consultation report for each of its EPs and are concerned about this potential misalignment on expectations.
- Tuna Australia advised it would like to discuss a way forward as woodside suggested and requested Woodside call Tuna on 30 May 2023, which Woodside committed
 to.
 - On 2 June 2023, Woodside made a follow up phone call to Tuna Australia and left a voicemail covering the following:
- Woodside called Tuna Australia on 2 June 2023 to follow up on phone call on 26 May 2023.
- Woodside left a message requesting a call back and the opportunity to meet with Tuna Australia to discuss Woodside's portfolio of environment plan activities.
- Woodside requested the opportunity to discuss options to consult with Tuna Australia and potentially lessen the burden on Tuna Australia for providing feedback on Woodside's EPs.
- Woodside offered the opportunity to take Tuna Australia through the entire EP portfolio, inclusive of decommissioning, so Tuna Australia could better assess the volume of activities.
- Woodside reiterated that there was no expectation for Tuna Australia to provide a consultation report on each individual EP, and potentially there is an opportunity for Woodside and Tuna Australia to work together on a more strategic approach.
 - On 6 June 2023, Tuna Australia returned Woodside's call regarding an opportunity to meet to discuss a more strategic approach to consultation.
 - On 8 June 2023, Tuna Australia returned Woodside's call and asked Woodside to call back on 14 June 2023.
 - On 14 June 2023, Woodside returned Tuna Australia's phone call and left a message for Tuna Australia to call back.
 - On 20 June 2023, Woodside and Tuna Australia held a meeting to discuss Tuna Australia's Industry Position Statement:
- Woodside provided an overview of its activities and explained how recent case law and NOPSEMA guidance had resulted in Woodside undertaking consultation on the widest potential 'EMBA'.
- Tuna Australia agreed to share with Woodside the name of any of the Offshore Sectors' titleholders that have entered into Tuna Australia's service agreement to date.
- Tuna Australia also agreed to provide more detail on how Tuna Australia will distribute consultation materials to its membership/licence holders and the format of any report arising from the data collected.
- Woodside committed to review Tuna Australia's Service Agreement.
 - On 26 June 2023, Woodside emailed Tuna Australia following the meeting held on 20 June 2023 and recapped what was discussed.
 - Woodside thanked Tuna Australia for its time and stated it looked forward to continuing work with Tuna Australia.
 - Woodside directed Tuna Australia to contact the Woodside Feedback inbox for any further information.
 - On 30 June 2023, Tuna Australia's CEO responded to Woodside's email of 26 June 2023. Tuna Australia:
- Noted outcomes of the recent case law focussed on stakeholder engagement and ensuring energy companies meet regulatory requirements and NOPSEMA guidelines.

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- Requested Woodside send the recent case law.
- Reached out to energy companies who have executed a services agreement with Tuna Australia and asked whether Tuna Australia could inform Woodside about their working relationship. Beach Energy confirmed it was happy for Tuna Australia to share its details.
- Advised how it contacts concession holders and what it provides to them.
- Provided a Tuna Australia contact who manages engagement with energy companies to progress a service agreement with Tuna Australia.
 - On 17 July 2023, Woodside emailed Tuna Australia and confirmed:
- Woodside's legal team had reviewed the Tuna Australia document and requested some minor changes to be made.
- Woodside asked Tuna Australia if a marked up version of the Service Agreement would be the simplest way for Tuna Australia to review.
- Woodside attached a Supplier Questionnaire as part of its due diligence process and asked Tuna Australia to complete the form.
 - On 18 July 2023, Tuna Australia emailed Woodside and confirmed:
- Woodside should send a marked up version of the Service Agreement for Tuna Australia to review.
- Tuna Australia would fill out the Supplier Questionnaire and return in the next couple of days.
 - On 18 July 2023, Woodside emailed Tuna Australia and sent a marked up version of the Service Agreement for Tuna Australia to review.
 - On 19 July 2023, Tuna Australia emailed Woodside and thanked it for sending through edits to Tuna Australia's services agreement and commented:
- Tuna Australia does not want any changes made to Schedule 2 of their Service Agreement and if Woodside has requirements outside of what Tuna Australia provides, then this will need to be discussed, agreed, and costed accordingly.
- Tuna Australia would like further details on the Annual service for the Woodside Master Existing document including the rationale for the payment proposed.
- Tuna Australia does not agree to a fixed price for the above bodies of work. Tuna Australia wants clarification on what the Annual service entails, and how the fixed priced value was arrived at. Tuna Australia Re the fixed fee for delivery of a specific consultation service, Tuna Australia need to remain flexible to client needs and discuss additional works should they be required. Tuna Australia says it specified in the schedule that it would never proceed with more work or charge more money without approval and this should suffice for Woodside.
- Tuna Australia does not agree on the current terms which have been changed in Item 2 of Schedule 1 and says it seeks a two year agreement as per the agreement template.
 - On 2 August 2023, Woodside emailed Tuna Australia, thanked them for their response re the Service Agreement and advised that Woodside's legal team will
 review and Woodside will revert as soon as possible. Woodside asked Tuna Australia to please complete the Supplier Questionnaire which was sent on 17 July
 2023.
 - On 3 August 2023, Tuna Australia replied, apologised for the delay and sent the completed Supplier Questionnaire to Woodside.
 - On 8 August 2023, Tuna Australia responded in regards to another EP stating that as per its recent discussions with Woodside, Tuna Australia could consult on the EP once it had a services agreement in place.
 - On 23 August 2023, Tuna Australia emailed Woodside following up on Woodside's consultation requirements with the tuna longline industry regarding another EP. Tuna Australia asked for clarity on whether Woodside was planning to engage Tuna Australia to consult on behalf of the tuna longline industry on this and other upcoming EPs that Woodside was seeking feedback on

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- On 30 August 2023, Woodside emailed Tuna Australia and advised that Tuna Australia's feedback on the Service Agreement had been discussed with Woodside's legal team. Woodside asked for clarity on whether Tuna Australia would accept section 15: Ethical Business Practices. Once this had been accepted, Woodside could work through Tuna Australia's other points.
- On 4 September 2023, Tuna Australia emailed Woodside and advised that it had seen these anti bribery and corruption clauses included in the vendor registration process of other energy companies but had not seen it proposed inside an agreement before. Tuna Australia advised it was not against including them in the agreement, but asked if it was the best place for it.

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Summary of Feedback, Objection or	Woodside Energy's Assessment of Merits of Feedback, Objection	Environment Plan Controls
Claim	or Claim and its Response	

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Tuna Australia responded, providing Woodside their position statement for engaging with energy companies seeking consultation advice from stakeholders on environmental plans and project proposals.

The position statement requests that where there is the potential for the proposed activity to impact Tuna Australia's functions, interests or activities or that of its members, there is a need for a service agreement to be executed.

Tuna Australia advised the name of another energy company where a service agreement had been executed.

Tuna Australia committed to provide more information on how it would manage consultation distribution and a report under its service agreement.

Tuna Australia and Woodside are working towards completing a service agreement.

Whilst feedback has been received, there were no objections or claims.

The fishery management area for the Western Tuna and Billfish Fishery, which Tuna Australia represents, overlaps both the Operational Area and EMBA. However, there is considered to be no potential for interaction within these areas as:

- No fishing effort has occurred within or nearby to the Operational Area, with the nearest fishing effort occurring ~60 km away.
- Fishery Status Report 2022 indicates current fishing effort is concentrated between Carnarvon and Albany, and occurred within the EMBA in the last five years (2016–2021) (Patterson et al., 2022).

However, given the distance from the Operational Area (>60 km) where this event may occur, the type of hydrocarbon (with up to 35% evaporating within the first 24 hours) and duration of exposure, no significant impact from a marine diesel spill is predicted.

Woodside acknowledges previous feedback received from Tuna Australia with respect to separate EPs. Woodside confirms that it conducts impact and risk assessments for its activities to identify and manage environmental impacts and risks, which includes potential interaction with recreational and commercial fishers.

To manage potential interactions, Woodside has the following controls in place with regard to the PAP of the Subsea EP:

- Vessels adhere to regulatory requirements for navigational safety.
- Notification to AHO of activities and movements to allow generation of navigation warnings (Maritime Safety Information Notifications (MSIN) and Notice to Mariners (NTM) (including AUSCOAST warnings where relevant)).
- Establishment of temporary exclusion zones by relevant vessels which are communicated to marine users.
- Vessels comply with regulatory requirements for the prevention of vessel collisions and safety and emergency arrangements.

Woodside has assessed the relevancy of Commonwealth fisheries issues in **Section 4.9.2** of this EP.

Woodside has adopted the following controls to manage potential interactions with commercial fisheries:

- PS 2.1.1 vessels will comply with the Navigation Act and Marine Order 21
- PS 2.3.1 notifications to AHO to allow generation of navigation warnings and Notice to Mariners
- PS 2.2.1 establishment of temporary exclusion zones
- PS 2.4.1 AFMA, DAFF Fisheries, DPIRD, WAFIC, CFA, and relevant Fishery Licence Holders that have the potential to be directly impacted by planned activities in the Operational Area prior to the commencement and at the end of the activity

Woodside has also adopted the following controls to manage the points raised in Tuna Australia's Feedback

- PS 7.1.1 and 7.2.1 vessels will comply with Marine orders 95 and 96
- PS 7.4.1 chemicals will be approved through the Woodside chemical assessment process
- PS 1.2.1 infrastructure will be placed in the planned locations
- PS 3.1.1 vessel will comply with EPBC Regulations 2000 – Part 8 Division 8.1

Woodside considers the measures and controls described within this EP address the potential impact from the proposed activities on Tuna Australia's functions, interests or activities.

No additional measures or controls are required.

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Woodside also notes the following in relation to the points raised in Tuna Australia's feedback:

- Routine marine vessel discharges will be managed in accordance with legislative and regulatory requirements (e.g. marine orders)
- Chemicals will be selected with the lowest practicable environmental impacts and risks subject to technical constraints. Pre-commissioning procedures developed and followed so that appropriate chemical concentrations are maintained.
- Seabed disturbance will managed by ensuring infrastructure is placed on the seabed within the predefined design footprint using positioning technology to limit seabed disturbance.
 Further, ROV inspection will be undertaken post-installation to confirm installation aids have been removed.
- Acoustic emissions from vessels in field will be managed by complying with regulatory requirements (e.g. EPBC Regulations 2000 – Part 8 Division 8.1).

Woodside has provided consultation information to AFMA, DAFF – Fisheries, CFA, ASBTIA, Tuna Australia and individual relevant licence holders.

Woodside engages in ongoing consultation throughout the life of an EP. Woodside notes that further feedback may be received as part of ongoing consultation. Should feedback be received after the EP has been accepted, it will be assessed and, where appropriate, Woodside will apply its Management of Change and Revision process (see **Section 7**).

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State Commercial fisheries and representative bodies

Marine Aquarium Managed Fishery

Woodside considers it has discharged its obligations for consultation under Regulation 11A(1). Sufficient time, information and opportunity has been provided as summarised below:

- Consultation Information Sheet publicly available on the Woodside website since September 2022.
- Woodside published advertisements in a national, state and relevant local newspapers on 19 October 2022 advising of the proposed activities and requesting feedback.
- Consultation Information provided to Marine Aquarium Managed Fishery on 3 February 2023 based on their function, interest and activities.
- Woodside has sent a follow up email seeking feedback on the proposed activities.
- Woodside has provided the Marine Aquarium Managed Fishery with the opportunity to provide feedback over a 7 month period.

Summary of information provided and record of consultation:

- On 3 February 2023, Woodside sent a letter to licence holders on the proposed activity (Appendix F, reference 1.142) and provided an updated Consultation Information Sheet and fisheries map.
- On 22 February 2023, Woodside sent a follow up letter (Appendix F, reference 1.167).

Summary of Feedback, Objection or Claim	Woodside Energy's Assessment of Merits of Feedback, Objection or Claim and its Response	Environment Plan Controls
No feedback, objections or claims received despite follow up.	Woodside has provided consultation information to DPIRD, WAFIC and individual relevant licence holders.	Woodside has assessed the relevancy of Commonwealth fisheries issues in Section 4.9.2 of this EP.
	Woodside engages in ongoing consultation throughout the life of an EP. Should feedback be received after the EP has been accepted, it will be assessed and, where appropriate, Woodside will apply its Management of Change and Revision process (see Section 7).	Woodside will provide notifications to AFMA, DAFF — Fisheries, DPIRD, WAFIC, CFA, and relevant Fishery Licence Holders that have the potential to be directly impacted by planned activities in the Operational Area prior to the commencement and at the end of the activity, as referenced as PS 2.4.1 in this EP. No additional measures or controls are required.

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Mackerel Managed Fishery (Area 2 and 3)

Woodside considers it has discharged its obligations for consultation under Regulation 11A(1). Sufficient time, information and opportunity has been provided as summarised below:

- Consultation Information Sheet publicly available on the Woodside website since September 2022.
- Woodside published advertisements in a national, state and relevant local newspapers on 19 October 2022 advising of the proposed activities and requesting feedback.
- Consultation Information provided to Mackerel Managed Fishery on 3 February 2023 based on their function, interest and activities.
- Woodside has sent a follow up email seeking feedback on the proposed activities.
- Woodside has provided the Mackerel Managed Fishery with the opportunity to provide feedback over a 7 month period.

Summary of information provided and record of consultation:

- On 3 February 2023, Woodside sent a letter to licence holders on the proposed activity (Appendix F, reference 1.142) and provided an updated Consultation Information Sheet and fisheries map.
- On 22 February 2023 Woodside sent a follow up letter (Appendix F, reference 1.167).

Summary of Feedback, Objection or Claim	Woodside Energy's Assessment of Merits of Feedback, Objection or Claim and its Response	Environment Plan Controls
No feedback, objections or claims received despite follow up.	Woodside has provided consultation information to DPIRD, WAFIC and individual relevant licence holders.	Woodside has assessed the relevancy of Commonwealth fisheries issues in Section 4.9.2 of this EP.
	Woodside engages in ongoing consultation throughout the life of an EP. Should feedback be received after the EP has been accepted, it will be assessed and, where appropriate, Woodside will apply its Management of Change and Revision process (see Section 7).	Woodside will provide notifications to AFMA, DAFF — Fisheries, DPIRD, WAFIC, CFA, and relevant Fishery Licence Holders that have the potential to be directly impacted by planned activities in the Operational Area prior to the commencement and at the end of the activity, as referenced as PS 2.4.1 in this EP. No additional measures or controls are required.

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West Coast Deep Sea Crustacean Managed Fishery

Woodside considers it has discharged its obligations for consultation under Regulation 11A(1). Sufficient time, information and opportunity has been provided as summarised below:

- Consultation Information Sheet publicly available on the Woodside website since September 2022.
- Woodside published advertisements in a national, state and relevant local newspapers on 19 October 2022 advising of the proposed activities and requesting feedback.
- Consultation Information provided to West Coast Deep Sea Crustacean Managed Fishery on 3 February 2023 based on their function, interest and activities.
- Woodside has sent a follow up email seeking feedback on the proposed activities.
- Woodside has provided the West Coast Deep Sea Crustacean Managed Fishery with the opportunity to provide feedback over a 7 month period.

Summary of information provided and record of consultation:

- On 3 February 2023, Woodside sent a letter to licence holders on the proposed activity (Appendix F, reference 1.142) and provided an updated Consultation Information Sheet and fisheries map.
- On 22 February 2023 Woodside sent a follow up letter (Appendix F, reference 1.167).

Summary of Feedback, Objection or Claim	Woodside Energy's Assessment of Merits of Feedback, Objection or Claim and its Response	Environment Plan Controls
No feedback, objections or claims received despite follow up.	Woodside has provided consultation information to DPIRD, WAFIC and individual relevant licence holders.	Woodside has assessed the relevancy of Commonwealth fisheries issues in Section 4.9.2 of this EP.
	Woodside engages in ongoing consultation throughout the life of an EP. Should feedback be received after the EP has been accepted, it will be assessed and, where appropriate, Woodside will apply its Management of Change and Revision process (see Section 7).	Woodside will provide notifications to AFMA, DAFF — Fisheries, DPIRD, WAFIC, CFA, and relevant Fishery Licence Holders that have the potential to be directly impacted by planned activities in the Operational Area prior to the commencement and at the end of the activity, as referenced as PS 2.4.1 in this EP. No additional measures or controls are required.

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Specimen Shell Managed Fishery

Woodside considers it has discharged its obligations for consultation under Regulation 11A(1). Sufficient time, information and opportunity has been provided as summarised below:

- Consultation Information Sheet publicly available on the Woodside website since September 2022.
- Woodside published advertisements in a national, state and relevant local newspapers on 19 October 2022 advising of the proposed activities and requesting feedback.
- Consultation Information provided to Specimen Shell Managed Fishery on 6 February 2023 based on their function, interest and activities.
- Woodside has sent a follow up letter seeking feedback on the proposed activities.
- Woodside has provided the Specimen Shell Managed Fishery with the opportunity to provide feedback over a 7 month period.

Summary of information provided and record of consultation:

- On 6 February 2023, Woodside sent a letter to licence holders on the proposed activity (Appendix F, reference 1.154) and provided an updated Consultation Information Sheet and fisheries map.
- On 22 February 2023, Woodside sent a follow up letter (Appendix F, reference 1.186).

Summary of Feedback, Objection or Claim	Woodside Energy's Assessment of Merits of Feedback, Objection or Claim and its Response	Environment Plan Controls
No feedback, objections or claims received despite follow up.	Woodside has provided consultation information to DPIRD, WAFIC and individual relevant licence holders.	Woodside has assessed the relevancy of Commonwealth fisheries issues in Section 4.9.2 of this EP.
	Woodside engages in ongoing consultation throughout the life of an EP. Should feedback be received after the EP has been accepted, it will be assessed and, where appropriate, Woodside will apply its Management of Change and Revision process (see Section 7).	Woodside will provide notifications to AFMA, DAFF — Fisheries, DPIRD, WAFIC, CFA, and relevant Fishery Licence Holders that have the potential to be directly impacted by planned activities in the Operational Area prior to the commencement and at the end of the activity, as referenced as PS 2.4.1 in this EP. No additional measures or controls are required.

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Onslow Prawn Managed Fishery

Woodside considers it has discharged its obligations for consultation under Regulation 11A(1). Sufficient time, information and opportunity has been provided as summarised below:

- Consultation Information Sheet publicly available on the Woodside website since September 2022.
- Woodside published advertisements in a national, state and relevant local newspapers on 19 October 2022 advising of the proposed activities and requesting feedback.
- Consultation Information provided to Onslow Prawn Managed Fishery on 6 February 2023 based on their function, interest and activities.
- Woodside has sent a follow up email seeking feedback on the proposed activities.
- Woodside has provided the Onslow Prawn Managed Fishery with the opportunity to provide feedback over a 7 month period.

Summary of information provided and record of consultation:

- On 6 February 2023, Woodside sent a letter to licence holders on the proposed activity (Appendix F, reference 1.154) and provided an updated Consultation Information Sheet and fisheries map.
- On 22 February 2023, Woodside sent a follow up letter (Appendix F, reference 1.186).

Summary of Feedback, Objection or Claim	Woodside Energy's Assessment of Merits of Feedback, Objection or Claim and its Response	Environment Plan Controls
No feedback, objections or claims received despite follow up.	Woodside has provided consultation information to DPIRD, WAFIC and individual relevant licence holders.	Woodside has assessed the relevancy of Commonwealth fisheries issues in Section 4.9.2 of this EP.
	Woodside engages in ongoing consultation throughout the life of an EP. Should feedback be received after the EP has been accepted, it will be assessed and, where appropriate, Woodside will apply its Management of Change and Revision process (see Section 7).	Woodside will provide notifications to AFMA, DAFF — Fisheries, DPIRD, WAFIC, CFA, and relevant Fishery Licence Holders that have the potential to be directly impacted by planned activities in the Operational Area prior to the commencement and at the end of the activity, as referenced as PS 2.4.1 in this EP. No additional measures or controls are required.

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Nickol Bay Prawn Managed Fishery

Woodside considers it has discharged its obligations for consultation under Regulation 11A(1). Sufficient time, information and opportunity has been provided as summarised below:

- Consultation Information Sheet publicly available on the Woodside website since September 2022.
- Woodside published advertisements in a national, state and relevant local newspapers on 19 October 2022 advising of the proposed activities and requesting feedback.
- Consultation Information provided to Nickol Bay Prawn Managed Fishery on 6 February 2023 based on their function, interest and activities.
- Woodside has sent a follow up email seeking feedback on the proposed activities.
- Woodside has provided the Nickol Bay Prawn Managed Fishery with the opportunity to provide feedback over a 7 month period.

Summary of information provided and record of consultation:

- On 6 February 2023, Woodside sent a letter to licence holders on the proposed activity (Appendix F, reference 1.154) and provided an updated Consultation Information Sheet and fisheries map.
- On 22 February 2023, Woodside sent a follow up letter (Appendix F, reference 1.186).

Summary of Feedback, Objection or Claim	Woodside Energy's Assessment of Merits of Feedback, Objection or Claim and its Response	Environment Plan Controls
No feedback, objections or claims received despite follow up.	Woodside has provided consultation information to DPIRD, WAFIC and individual relevant licence holders.	Woodside has assessed the relevancy of Commonwealth fisheries issues in Section 4.9.2 of this EP.
	Woodside engages in ongoing consultation throughout the life of an EP. Should feedback be received after the EP has been accepted, it will be assessed and, where appropriate, Woodside will apply its Management of Change and Revision process (see Section 7).	Woodside will provide notifications to AFMA, DAFF – Fisheries, DPIRD, WAFIC, CFA, and relevant Fishery Licence Holders that have the potential to be directly impacted by planned activities in the Operational Area prior to the commencement and at the end of the activity, as referenced as PS 2.4.1 in this EP. No additional measures or controls are required.

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Western Australian Sea Cucumber Fishery

Woodside considers it has discharged its obligations for consultation under Regulation 11A(1). Sufficient time, information and opportunity has been provided as summarised below:

- Consultation Information Sheet publicly available on the Woodside website since September 2022.
- Woodside published advertisements in a national, state and relevant local newspapers on 19 October 2022 advising of the proposed activities and requesting feedback.
- Consultation Information provided to Western Australian Sea Cucumber Managed Fishery on 6 February 2023 based on their function, interest and activities.
- Woodside has sent a follow up email seeking feedback on the proposed activities.
- Woodside has provided the Western Australian Sea Cucumber Managed Fishery with the opportunity to provide feedback over a 7 month period.

Summary of information provided and record of consultation:

- On 6 February 2023, Woodside sent a letter to licence holders on the proposed activity (Appendix F, reference 1.154) and provided an updated Consultation Information Sheet and fisheries map.
- On 22 February 2023, Woodside sent a follow up letter (Appendix F, reference 1.186).

Summary of Feedback, Objection or Claim	Woodside Energy's Assessment of Merits of Feedback, Objection or Claim and its Response	Environment Plan Controls
No feedback, objections or claims received despite follow up.	Woodside has provided consultation information to DPIRD, WAFIC and individual relevant licence holders.	Woodside has assessed the relevancy of Commonwealth fisheries issues in Section 4.9.2 of this EP.
	Woodside engages in ongoing consultation throughout the life of an EP. Should feedback be received after the EP has been accepted, it will be assessed and, where appropriate, Woodside will apply its Management of Change and Revision process (see Section 7).	Woodside will provide notifications to AFMA, DAFF – Fisheries, DPIRD, WAFIC, CFA, and relevant Fishery Licence Holders that have the potential to be directly impacted by planned activities in the Operational Area prior to the commencement and at the end of the activity, as referenced as PS 2.4.1 in this EP. No additional measures or controls are required.

Gascoyne Demersal Scalefish Fishery

Woodside considers it has discharged its obligations for consultation under Regulation 11A(1). Sufficient time, information and opportunity has been provided as summarised below:

Consultation Information Sheet publicly available on the Woodside website since September 2022.

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- Woodside published advertisements in a national, state and relevant local newspapers on 19 October 2022 advising of the proposed activities and requesting feedback.
- Consultation Information provided to Gascoyne Demersal Scalefish Managed Fishery on 6 February 2023 based on their function, interest and activities.
- Woodside has sent a follow up email seeking feedback on the proposed activities.
- Woodside has provided the Gascoyne Demersal Scalefish Managed Fishery with the opportunity to provide feedback over a 7 month period.

Summary of information provided and record of consultation:

- On 6 February 2023, Woodside sent a letter to licence holders on the proposed activity (Appendix F, reference 1.154) and provided an updated Consultation Information Sheet and fisheries map.
- On 22 February 2023, Woodside sent a follow up letter (Appendix F, reference 1.186).

Summary of Feedback, Objection or Claim	Woodside Energy's Assessment of Merits of Feedback, Objection or Claim and its Response	Environment Plan Controls
No feedback, objections or claims received despite follow up.	Woodside has provided consultation information to DPIRD, WAFIC and individual relevant licence holders.	Woodside has assessed the relevancy of Commonwealth fisheries issues in Section 4.9.2 of this EP.
	Woodside engages in ongoing consultation throughout the life of an EP. Should feedback be received after the EP has been accepted, it will be assessed and, where appropriate, Woodside will apply its Management of Change and Revision process (see Section 7).	Woodside will provide notifications to AFMA, DAFF – Fisheries, DPIRD, WAFIC, CFA, and relevant Fishery Licence Holders that have the potential to be directly impacted by planned activities in the Operational Area prior to the commencement and at the end of the activity, as referenced as PS 2.4.1 in this EP. No additional measures or controls are required.

Pilbara Trawl Fishery

Woodside considers it has discharged its obligations for consultation under Regulation 11A(1). Sufficient time, information and opportunity has been provided as summarised below:

- Consultation Information Sheet publicly available on the Woodside website since September 2022.
- Woodside published advertisements in a national, state and relevant local newspapers on 19 October 2022 advising of the proposed activities and requesting feedback.
- Consultation Information provided to Pilbara Trawl Fishery on 6 February 2023 based on their function, interest and activities.
- Woodside has sent a follow up email seeking feedback on the proposed activities.

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Woodside has provided the Pilbara Trawl Fishery with the opportunity to provide feedback over a 7 month period.

Summary of information provided and record of consultation:

- On 3 February 2023, Woodside sent a letter to licence holders on the proposed activity (Appendix F, reference 1.141) and provided an updated Consultation Information Sheet and fisheries map.
- On 22 February 2023, Woodside sent a follow up letter (Appendix F, reference 1.184).

Summary of Feedback, Objection or Claim	Woodside Energy's Assessment of Merits of Feedback, Objection or Claim and its Response	Environment Plan Controls
No feedback, objections or claims received despite follow up.	Woodside has provided consultation information to DPIRD, WAFIC and individual relevant licence holders.	Woodside has assessed the relevancy of Commonwealth fisheries issues in Section 4.9.2 of this EP.
	Woodside engages in ongoing consultation throughout the life of an EP. Should feedback be received after the EP has been accepted, it will be assessed and, where appropriate, Woodside will apply its Management of Change and Revision process (see Section 7).	Woodside will provide notifications to AFMA, DAFF – Fisheries, DPIRD, WAFIC, CFA, and relevant Fishery Licence Holders that have the potential to be directly impacted by planned activities in the Operational Area prior to the commencement and at the end of the activity, as referenced as PS 2.4.1 in this EP. No additional measures or controls are required.

Pilbara Trap Fishery

Woodside considers it has discharged its obligations for consultation under Regulation 11A(1). Sufficient time, information and opportunity has been provided as summarised below:

- Consultation Information Sheet publicly available on the Woodside website since September 2022.
- Woodside published advertisements in a national, state and relevant local newspapers on 19 October 2022 advising of the proposed activities and requesting feedback.
- Consultation Information provided to Pilbara Trap Fishery on 6 February 2023 based on their function, interest and activities.
- Woodside has sent a follow up email seeking feedback on the proposed activities.
- Woodside has provided the Pilbara Trap Fishery with the opportunity to provide feedback over a 7 month period.

Summary of information provided and record of consultation:

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- On 3 February 2023, Woodside sent a letter to licence holders on the proposed activity (Appendix F, reference 1.141) and provided an updated Consultation Information Sheet and fisheries map.
- On 22 February 2023, Woodside sent a follow up email (Appendix F, reference 1.184).

Summary of Feedback, Objection or Claim	Woodside Energy's Assessment of Merits of Feedback, Objection or Claim and its Response	Environment Plan Controls
No feedback, objections or claims received despite follow up.	Woodside has provided consultation information to DPIRD, WAFIC and individual relevant licence holders.	Woodside has assessed the relevancy of Commonwealth fisheries issues in Section 4.9.2 of this EP.
	Woodside engages in ongoing consultation throughout the life of an EP. Should feedback be received after the EP has been accepted, it will be assessed and, where appropriate, Woodside will apply its Management of Change and Revision process (see Section 7).	Woodside will provide notifications to AFMA, DAFF – Fisheries, DPIRD, WAFIC, CFA, and relevant Fishery Licence Holders that have the potential to be directly impacted by planned activities in the Operational Area prior to the commencement and at the end of the activity, as referenced as PS 2.4.1 in this EP. No additional measures or controls are required.

Pilbara Line Fishery

Woodside considers it has discharged its obligations for consultation under Regulation 11A(1). Sufficient time, information and opportunity has been provided as summarised below:

- Consultation Information Sheet publicly available on the Woodside website since September 2022.
- Woodside published advertisements in a national, state and relevant local newspapers on 19 October 2022 advising of the proposed activities and requesting feedback.
- Consultation Information provided to Pilbara Line Fishery on 6 February 2023 based on their function, interest and activities.
- Woodside has sent a follow up email seeking feedback on the proposed activities.
- Woodside has provided the Pilbara Line Fishery with the opportunity to provide feedback over a 7 month period.

Summary of information provided and record of consultation:

- On 3 February 2023, Woodside emailed licence holders on the proposed activity (Appendix F, reference 1.149) and provided an updated Consultation Information Sheet and fisheries map.
- On 22 February 2023, Woodside sent a follow up email (Appendix F, reference 1.166).

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Summary of Feedback, Objection or Claim	Woodside Energy's Assessment of Merits of Feedback, Objection or Claim and its Response	Environment Plan Controls
No feedback, objections or claims received despite follow up.	Woodside has provided consultation information to DPIRD, WAFIC and individual relevant licence holders.	Woodside has assessed the relevancy of Commonwealth fisheries issues in Section 4.9.2 of this EP.
	Woodside engages in ongoing consultation throughout the life of an EP. Should feedback be received after the EP has been accepted, it will be assessed and, where appropriate, Woodside will apply its Management of Change and Revision process (see Section 7).	Woodside will provide notifications to AFMA, DAFF – Fisheries, DPIRD, WAFIC, CFA, and relevant Fishery Licence Holders that have the potential to be directly impacted by planned activities in the Operational Area prior to the commencement and at the end of the activity, as referenced as PS 2.4.1 in this EP. No additional measures or controls are required.

Western Australian Fishing Industry Council (WAFIC)

Woodside considers it has discharged its obligations for consultation under Regulation 11A(1). Sufficient time, information and opportunity has been provided as summarised below:

- Consultation Information Sheet publicly available on the Woodside website since September 2022.
- Woodside published advertisements in a national, state and relevant local newspapers on 19 October 2022 advising of the proposed activities and requesting feedback.
- Consultation Information provided to WAFIC on 21 September 2022 based on their function, interest and activities.

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Woodside has addressed and responded to WAFIC over an 11 month period.

Summary of information provided and record of consultation:

- On 21 September 2022, Woodside emailed WAFIC advising of the proposed activity (Appendix F, reference 1.25) and provided a Consultation Information Sheet, Consultation FAQ and fisheries map.
- On 13 October 2022, Woodside sent a follow up email (Appendix F, reference 1.83).
- On 3 February 2023, Woodside emailed WAFIC with an update on the proposed activity (Appendix F, reference 1.144) and provided an updated Consultation Information Sheet and fisheries map.
- On 22 February 2023 Woodside sent a follow up email (Appendix F, reference 1.163).
- On 5 May 2023, Woodside had a phone call with WAFIC to follow up on a number of EPs, including the activities proposed under this EP, and to request any further feedback. Woodside committed to providing WAFIC with a consolidated email outlining all the EPs Woodside is currently consulting WAFIC on for ease of feedback.

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- On 5 May 2023, Woodside sent an email to WAFIC providing the status of feedback on a number of EPs, including the activities proposed under this EP. Woodside advised it would soon be submitting the EP for assessment and requested any feedback.
- On 19 May 2023, Woodside had a phone call with WAFIC to follow up on a number of EPs, including the activities proposed under this EP and to request any feedback
- On 24 May 2023, WAFIC emailed Woodside to ask whether Woodside was planning to develop and implement a compensation framework Fishers' engagement.
- WAFIC also suggested a different consulting approach with WAFIC and commercial fishers may need to be adopted as WAFIC had limited resources and other oil and gas proponents utilising WAFIC's fee-for-service model for EPs would be prioritised.
- On 27 June 2023, Woodside responded to WAFIC noting:
- The Operational Area for the proposed activity was not classified as an area of high commercial fishing activity.
- Commercial fishing vessels would not be excluded from the entire Operational Area for the total duration of the proposed activities, which will occur in multiple campaigns.
- An interactive map showing the location of the proposed activities would be available on the Woodside website and would be updated throughout the proposed activities.
- Woodside further stated it:
- Recognised rights of marine users and had taken steps to mitigate potential operational impacts on other marine users, including commercial fishing, shipping, and defence and petroleum activities and that it was required to reduce impacts to ALARP as set out in this EP.
- Would consider claims from commercial fishing licence holders where there is economic loss; damage to fishing equipment, and demonstratable loss of catch but would not reimburse stakeholders for time spent attending an activity planning meeting.
- Welcomed the opportunity to meet with WAFIC to provide an overview of current and upcoming EPs and would email proposed dates and details.
- Woodside noted WAFIC had previously provided feedback for a number of other EPs and asked to be advised of any further feedback.
- On 25 July 2023, WAFIC's CEO sent a letter to Woodside's CEO to register frustration with regard to Woodside pursuing detailed responses to EPs or Decommissioning Proposals. WAFIC noted:
 - Since start of 2023, it had received more than 60 emails seeking feedback for activities proposed by Woodside;
 - Each email placed workload pressures on WAFIC, an organisation without sufficient resources to meet the deadlines required;
 - It had a number of other oil and gas titleholders operating in WA waters seeking similar feedback for their projects;
 - WAFIC requested Woodside to review its current consultation methodology for engagement with WAFIC.
- On 16 August 2023, Woodside emailed WAFIC and confirmed a meeting for 28 August 2023. Woodside also provided an outline of existing EP consultation and upcoming in the coming weeks which were not relevant to this EP.
- On 25 August 2023, Woodside's Executive Vice President replied to the letter from the WAFIC CEO and noted:
 - Woodside's consultation is designed to ensure that relevant persons are identified and given sufficient information and a reasonable period to make an informed assessment of the possible consequences of the proposed activity
 - Woodside is keen to meet with WAFIC and to ensure Woodside's consultation with WAFIC and the commercial fishing sector achieves this outcome.

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- Woodside thanked WAFIC for sharing concerns and appreciated the opportunity to discuss these matters further and will be in touch to organise a suitable meeting date.
- On 28 August 2023, Woodside met with WAFIC to discuss consultation on Environment Plans:
 - WAFIC noted the high level of consultation currently being experienced and resourcing requirements. It noted it needed to prioritise consultation and had provided guidance to offshore proponents.
 - Woodside discussed relevant persons consultation and acknowledged the high level of consultation to meet regulatory requirements and case law.
 - WAFIC noted the importance of genuine consultation and building a relationship with the commercial fishing sector.
 - Woodside sought to understand the most appropriate way to consult the commercial fishery sector.
 - WAFIC and Woodside agreed a more strategic approach to consultation was required, noting the WAFIC fee for service model.
 - Woodside recognised the need for WAFIC to be appropriately resourced to consider consultation materials.
 - It was noted it is challenging to make assumptions about certain offshore activities, for example considering water depth or distance from shore, to reduce consultation fatigue.
 - Pipeline installation, seismic and decommissioning are activities of the most interest to the commercial fishing sector.
 - WAFIC noted consultation at the Offshore Project Proposal stage was effective in understanding projects and upcoming work scopes.
 - Woodside and WAFIC agreed to identify a more strategic and tailored model to consult the commercial fishery sector.
 - Woodside gave a presentation on Environment Plan activities, consultation requirements, the environment that may be affected, and consultation on another FP.
 - On 1 September 2023, Woodside phoned WAFIC to discuss the consultation approach and fee-for-service for other Woodside EPs.
 - WAFIC confirmed as per its guideline consultation should occur with licence holders in the operational area, and agreed to distribute consultation materials under fee for service for Woodside EPs.
 - WAFIC confirmed it had sufficient existing information to consult with licence holders.
 - Woodside and WAFIC reiterated plans to consider developing a longer-term consultation model for future EPs.

Summary of Feedback, Objection or Claim	Woodside Energy's Assessment of Merits of Feedback, Objection or Claim and its Response	Environment Plan Controls
WAFIC requested a consolidated email outlining the status of a number of EPs including the activities proposed under this EP. WAFIC asked for further clarifications cautionary / operational zones and confirmation that Woodside has	Woodside provided WAFIC with the status of feedback on a number of EPs, including this EP, and advised it would be submitting the EP for assessment and requested any feedback. Woodside has provided consultation information to DPIRD, WAFIC and individual relevant licence holders. Woodside advised WAFIC it would welcome the opportunity to meet and provide an overview of its EPs.	Woodside has assessed the relevancy of Commonwealth fisheries issues in Section 4.9.2 of this EP. Woodside will provide notifications to AFMA, DAFF – Fisheries, DPIRD, WAFIC, CFA, and relevant Fishery Licence Holders that have the potential to be directly impacted by planned activities in the Operational Area

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considered data, communications, support, process and commitments regarding unplanned activities.

WAFIC provided the expectation that there will be no fishing from support / commercial vessels.

Expectations around a different consulting model suggesting priority would be given to Titleholders who embrace fee-for-service.

WAFIC and Woodside are working towards a more strategic approach and tailored model to consult the commercial fishery sector.

Woodside agreed to identify a more strategic and tailored model to consult the commercial fishery sector on environment plans.

Woodside engages in ongoing consultation throughout the life of an EP. Woodside notes that further feedback may be received as part of ongoing consultation. Should feedback be received after the EP has been accepted, it will be assessed and, where appropriate, Woodside will apply its Management of Change and Revision process (see **Section 7**).

prior to the commencement and at the end of the activity, as referenced as **PS 2.4.1** in this EP.

Woodside considers the measures and controls described within this EP address the potential impact from the proposed activities on WAFIC's functions, interests or activities.

No additional measures or controls are required.

Recreational marine users and representative bodies

Karratha Recreational Marine Users

Woodside considers it has discharged its obligations for consultation under Regulation 11A(1). Sufficient time, information and opportunity has been provided as summarised below:

- Consultation Information Sheet publicly available on the Woodside website since September 2022.
- Woodside published advertisements in a national, state and relevant local newspapers on 19 October 2022 advising of the proposed activities and requesting feedback.
- Consultation Information provided to Karratha Recreational Marine Users on 3 February 2023 based on their function, interest and activities.
- Woodside has sent a follow up email seeking feedback on the proposed activities.
- Woodside has provided the Karratha Recreational Marine Users with the opportunity to provide feedback over a 7 month period.

Summary of information provided and record of consultation:

- On 3 February 2023, Woodside emailed Karratha Recreational Marine Users on the proposed activity (Appendix F, reference 1.145) and provided a Consultation Information Sheet.
- On 22 February 2023 Woodside sent a follow up email (Appendix F, reference 1.185).

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Summary of Feedback, Objection or Claim	Woodside Energy's Assessment of Merits of Feedback, Objection or Claim and its Response	Environment Plan Controls
No feedback, objections or claims received despite follow up.	Woodside has provided consultation information to Recfishwest, Marine Tourism Association of WA, WA Game Fishing Association and individual recreational marine users.	No additional measures or controls are required.
	Woodside engages in ongoing consultation throughout the life of an EP. Should feedback be received after the EP has been accepted, it will be assessed and, where appropriate, Woodside will apply its Management of Change and Revision process (see Section 7).	

Exmouth Recreational Marine Users

Woodside considers it has discharged its obligations for consultation under Regulation 11A(1). Sufficient time, information and opportunity has been provided as summarised below:

- Consultation Information Sheet publicly available on the Woodside website since September 2022.
- Woodside published advertisements in a national, state and relevant local newspapers on 19 October 2022 advising of the proposed activities and requesting feedback.
- Consultation Information provided to Exmouth Recreational Marine Users on 3 February 2023 based on their function, interest and activities.
- Woodside has sent a follow up email seeking feedback on the proposed activities.
- Woodside has provided the Exmouth Recreational Marine Users with the opportunity to provide feedback over a 7 month period.

Summary of information provided and record of consultation:

- On 3 February 2023, Woodside emailed Exmouth Recreational Marine Users on the proposed activity (Appendix F, reference 1.146) and provided a Consultation Information Sheet.
- On 22 February 2023 Woodside sent a follow up email (Appendix F, reference 1.164).

Summary of Feedback, Objection or Claim	Woodside Energy's Assessment of Merits of Feedback, Objection or Claim and its Response	Environment Plan Controls
No feedback, objections or claims received despite follow up.	Woodside has provided consultation information to Recfishwest, Marine Tourism Association of WA, WA Game Fishing Association and individual recreational marine users.	No additional measures or controls are required.

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Woodside engages in ongoing consultation throughout the life of an E Should feedback be received after the EP has been accepted, it will be assessed and, where appropriate, Woodside will apply its Manageme of Change and Revision process (see Section 7).	
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Pilbara / Kimberley Recreational Marine Users

Woodside considers it has discharged its obligations for consultation under Regulation 11A(1). Sufficient time, information and opportunity has been provided as summarised below:

- Consultation Information Sheet publicly available on the Woodside website since September 2022.
- Woodside published advertisements in a national, state and relevant local newspapers on 19 October 2022 advising of the proposed activities and requesting feedback.
- Consultation Information provided to Pilbara/Kimberley Recreational Marine Users on 6 February 2023 based on their function, interest and activities.
- Woodside has sent a follow up email seeking feedback on the proposed activities.
- Woodside has provided the Pilbara/Kimberley Recreational Marine Users with the opportunity to provide feedback over a 7 month period.

Summary of information provided and record of consultation:

- On 6 February 2023, Woodside emailed Pilbara / Kimberley Recreational Marine Users on the proposed activity (Appendix F, reference 1.151) and provided a Consultation Information Sheet.
- On 22 February 2023, Woodside sent a follow up email (Appendix F, reference 1.187).

Summary of Feedback, Objection or Claim	Woodside Energy's Assessment of Merits of Feedback, Objection or Claim and its Response	Environment Plan Controls
No feedback, objections or claims received despite follow up.	Woodside has provided consultation information to Recfishwest, Marine Tourism Association of WA, WA Game Fishing Association and individual recreational marine users.	No additional measures or controls are required.
	Woodside engages in ongoing consultation throughout the life of an EP. Should feedback be received after the EP has been accepted, it will be assessed and, where appropriate, Woodside will apply its Management of Change and Revision process (see Section 7).	

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Gascoyne Recreational Marine Users

Woodside considers it has discharged its obligations for consultation under Regulation 11A(1). Sufficient time, information and opportunity has been provided as summarised below:

- Consultation Information Sheet publicly available on the Woodside website since September 2022.
- Woodside published advertisements in a national, state and relevant local newspapers on 19 October 2022 advising of the proposed activities and requesting feedback.
- Consultation Information provided to Gascoyne Recreational Marine Users on 6 February 2023 based on their function, interest and activities.
- Woodside has sent a follow up email seeking feedback on the proposed activities.
- Woodside has provided the Gascoyne Recreational Marine Users with the opportunity to provide feedback over a 7 month period.

Summary of information provided and record of consultation:

- On 6 February 2023, Woodside sent a letter to Gascoyne Recreational Marine Users on the proposed activity (Appendix F, reference 1.150) and provided a Consultation Information Sheet.
- On 22 February 2023 Woodside sent a follow up letter (Appendix F, reference 1.168).

Summary of Feedback, Objection or Claim	Woodside Energy's Assessment of Merits of Feedback, Objection or Claim and its Response	Environment Plan Controls
No feedback, objections or claims received despite follow up.	Woodside has provided consultation information to Recfishwest, Marine Tourism Association of WA, WA Game Fishing Association and individual recreational marine users.	No additional measures or controls are required.
	Woodside engages in ongoing consultation throughout the life of an EP. Should feedback be received after the EP has been accepted, it will be assessed and, where appropriate, Woodside will apply its Management of Change and Revision process (see Section 7).	

Recfishwest

Woodside considers it has discharged its obligations for consultation under Regulation 11A(1). Sufficient time, information and opportunity has been provided as summarised below:

Consultation Information Sheet publicly available on the Woodside website since September 2022.

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- Woodside published advertisements in a national, state and relevant local newspapers on 19 October 2022 advising of the proposed activities and requesting feedback.
- Consultation Information provided Recfishwest on 27 January 2023 based on their function, interest and activities.
- Woodside has addressed and responded to Recfishwest over a 8 month period.

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Summary of information provided and record of consultation:

- On 21 September 2022, Woodside emailed Recfishwest advising of the proposed activity (Appendix F, reference 1.18) and provided a Consultation Information Sheet and Consultation FAQ (Appendix F, reference 1.46).
- On 13 October 2022, Woodside sent a follow up email (Appendix F, reference 1.81).
- On 18 October 2022, Recfishwest emailed Woodside:
- Recfishwest advised that recreational fishing is likely to be more infrequent in the proposed area and that Recfishwest does not object to the proposed activities.
- Recfishwest requested to be kept informed on the progress of the project.
- On 31 October 2022, Woodside emailed Recfishwest and noted Recfishwest had no objections and confirmed they would keep Recfishwest informed of project updates.
- On 27 January 2023, Woodside emailed Recfishwest with an update on the proposed activity (Appendix F, reference 1.126) and provided a Consultation Information Sheet.
- On 22 February 2023, Woodside sent a follow up email (Appendix F, reference 1.172).

Summary of Feedback, Objection or Claim	Woodside Energy's Assessment of Merits of Feedback, Objection or Claim and its Response	Environment Plan Controls
Recfishwest has provided feedback and advised that: • Fishing is likely to be more infrequent in the proposed area and that Recfishwest does not object to the proposed activities Recfishwest also requested to be kept informed on the progress of the project.	Woodside has responded to Recfishwest's feedback and has confirmed it will keep Recfishwest updated on project updates. Woodside has provided consultation information to Recfishwest, Marine Tourism Association of WA, WA Game Fishing Association and individual recreational marine users. Woodside engages in ongoing consultation throughout the life of an EP. Woodside notes that further feedback may be received as part of ongoing consultation. Should feedback be received after the EP has been accepted, it will be assessed and, where appropriate, Woodside will apply its Management of Change and Revision process (see Section 7).	Woodside has consulted Recfishwest in the course of preparing this EP. Woodside has assessed the claims or objections raised by Recfishwest. An additional measure was put in place. Woodside will provide notifications to Recfishwest prior to the commencement and at the end of the activity, as referenced as PS 2.4.1 in this EP. Woodside considers the measures and controls described within this EP address the potential impact from the proposed activities on Recfishwest's functions, interests or activities.

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Marine Tourism Association of WA

Woodside considers it has discharged its obligations for consultation under Regulation 11A(1). Sufficient time, information and opportunity has been provided as summarised below:

- Consultation Information Sheet publicly available on the Woodside website since September 2022.
- Woodside published advertisements in a national, state and relevant local newspapers on 19 October 2022 advising of the proposed activities and requesting feedback.
- Consultation Information provided Marine Tourism Association of WA on 27 January 2023 based on their function, interest and activities.
- Woodside has sent follow up emails seeking feedback on the proposed activities.
- Woodside has provided the Marine Tourism Association of WA with the opportunity to provide feedback over an 8 month period.

Summary of information provided and record of consultation:

- On 21 September 2022, Woodside emailed Marine Tourism WA advising of the proposed activity (Appendix F, reference 1.22) and provided a Consultation Information Sheet and Consultation FAQ.
- On 13 October 2022, Woodside sent a follow up email (Appendix F, reference 1.82).
- On 27 January 2023, Woodside emailed Marine Tourism WA with an update on the proposed activity (Appendix F, reference 1.126) and provided a Consultation Information Sheet.
- On 22 February 2023, Woodside sent a follow up email (Appendix F, reference 1.172).

Summary of Feedback, Objection or Claim	Woodside Energy's Assessment of Merits of Feedback, Objection or Claim and its Response	Environment Plan Controls
No feedback, objections or claims received despite follow up.	Woodside has provided consultation information to Recfishwest, Marine Tourism Association of WA, WA Game Fishing Association and individual recreational marine users.	No additional measures or controls are required.
	Woodside engages in ongoing consultation throughout the life of an EP. Should feedback be received after the EP has been accepted, it will be assessed and, where appropriate, Woodside will apply its Management of Change and Revision process (see Section 7).	

WA Game Fishing Association (WAGFA)

Woodside considers it has discharged its obligations for consultation under Regulation 11A(1). Sufficient time, information and opportunity has been provided as summarised below:

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- Consultation Information Sheet publicly available on the Woodside website since September 2022.
- Woodside published advertisements in a national, state and relevant local newspapers on 19 October 2022 advising of the proposed activities and requesting feedback.
- Consultation Information provided WAGFA on 27 January 2023 based on their function, interest and activities.
- Woodside has sent follow up emails seeking feedback on the proposed activities.
- Woodside has provided WAGFA with the opportunity to provide feedback over an 8 month period.

Summary of information provided and record of consultation:

- On 21 September 2022, Woodside emailed WAGFA advising of the proposed activity (Appendix F, reference 1.19) and provided a Consultation Information Sheet and Consultation FAQ.
- On 13 October 2022, Woodside sent a follow up email (Appendix F, reference 1.207).
- On 27 January 2023, Woodside emailed WAGFA with an update on the proposed activity (Appendix F, reference 1.126) and provided a Consultation Information Sheet.
- On 22 February 2023, Woodside sent a follow up email (Appendix F, reference 1.172).

Summary of Feedback, Objection or Claim	Woodside Energy's Assessment of Merits of Feedback, Objection or Claim and its Response	Environment Plan Controls
No feedback, objections or claims received despite follow up.	Woodside has provided consultation information to Recfishwest, Marine Tourism Association of WA, WA Game Fishing Association and individual recreational marine users.	No additional measures or controls are required.
	Woodside engages in ongoing consultation throughout the life of an EP. Should feedback be received after the EP has been accepted, it will be assessed and, where appropriate, Woodside will apply its Management of Change and Revision process (see Section 7).	

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Titleholders and Operators

Chevron Australia / Osaka Gas Gorgon, Tokyo Gas Gorgon, JERA Gorgon

Woodside considers it has discharged its obligations for consultation under Regulation 11A(1). Sufficient time, information and opportunity has been provided as summarised below:

- Consultation Information Sheet publicly available on the Woodside website since September 2022.
- Woodside published advertisements in a national, state and relevant local newspapers on 19 October 2022 advising of the proposed activities and requesting feedback.
- Consultation Information provided to Chevron on 21 September 2022 based on their function, interest and activities.
- Woodside has addressed and responded to Chevron over an 11 month period.

Summary of consultation provided and responses:

- On 21 September 2022, Woodside emailed Chevron Australia advising of the proposed activity (Appendix F, reference 1.47) and provided a Consultation Information Sheet, Consultation FAQ and neighbouring Titleholder map.
- On 13 October 2022, Woodside sent a follow up email (Appendix F, reference 1.70).
- On 27 January 2023, Woodside emailed Chevron Australia with an update on the proposed activity (Appendix F, reference 1.118) and provided a Consultation Information Sheet. Woodside requested that Chevron forward the consultation information to Chevron's Joint Venture partners Osaka Gas Gorgon, Tokyo Gas Gorgon and JERA Gorgon for feedback.
- On 22 February 2023, Woodside sent a follow up email (Appendix F, reference 1.173).
- On 22 March 2023, Chevron emailed Woodside:
- Chevron advised it was actively reviewing a list of 10 of Woodside's EP submissions.
- Chevron advised the current forecast is for the list to be completed by mid-April at the latest, although it has prioritised a list of five EPs to be completed sooner.
- Chevron requested for Woodside to advise if there is a particular EP that is of higher urgency so that it can prioritise its review accordingly. Once this initial backlog is clear Chevron anticipates being in a position to respond within 30 days.
- Chevron requested to assist in its review of the potential effect on its interests and activities, could Woodside please provide GIS shape files for the EPs listed (including this proposed activity).
- On 29 March 2023, Chevron emailed Woodside:

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- Chevron advised it had reviewed five of Woodside's EPs that were submitted to Chevron and have captured initial feedback on each.
- On the proposed activity Chevron provided a comment that no impact has been identified.
- Chevron raised a general comment that noted if the work plan is executed during the cyclone season, Woodside is to provide cyclone anchor configuration, as well as
 mooring design, site specific geophysical and geotechnical data, anchor analysis, risk mitigations to inform Chevron Australia of the potential risks to its assets within the
 affected leases.
 - On 3 April 2023, Woodside emailed Chevron:
- Woodside provided GIS shapefiles for a list of 10 Woodside EPs, including this proposed activity.
- Woodside advised it would respond to Chevron's feedback dated 29 March 2023 separately.
 - On 6 April 2023, Woodside emailed Chevron:
- Woodside re-attached the GIS shapefiles provided on 3 April 2023.
- Woodside noted Chevon's feedback that no impact is identified from the proposed updated activities under the Scarborough WA-61-L & WA-62-L Subsea Infrastructure Installation EP.
- Woodside advised the only Scarborough activity that may involve mooring is the drilling and completions scope which has an option in the Scarborough Drilling and Completions Environment Plan (D&C EP) for a moored MODU. This is contingent – base case is the use of DP MODU. The D&C operational area is ~123 km from the any of Chevron's assets (Janzs) and therefore there are no credible risks to Chevron assets.

Summary of Feedback, Objection or Claim	Woodside Energy's Assessment of Merits of Feedback, Objection or Claim and its Response	Environment Plan Controls
Chevron has provided feedback on the proposed activity noting: No impact identified. Chevron has requested:	Woodside has provided GIS shapefiles and a response relating to its question regarding cyclone anchoring and advised of mooring activities relating to a separate Scarborough EP as the proposed activity under this EP does not involve mooring.	Woodside has consulted Chevron in the course of preparing this EP. Woodside has assessed the claims or objections raised by Chevron. No additional measures or controls have been put in place.
GIS shapefiles for the proposed activity. If the work plan is executed during the cyclone season, Woodside is to provide cyclone anchor configuration, as well as mooring design, site specific geophysical and geotechnical data, anchor analysis, risk mitigations to inform Chevron Australia of the potential risks	Woodside engages in ongoing consultation throughout the life of an EP. Woodside notes that further feedback may be received as part of ongoing consultation. Should feedback be received after the EP has been accepted, it will be assessed and, where appropriate, Woodside will apply its Management of Change and Revision process (see Section 7).	Woodside considers the measures and controls described within this EP address the potential impact from the proposed activities on Chevron's functions, interests or activities.

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to its assets within the affected	
leases.	

Exxon Mobil Australia

Woodside considers it has discharged its obligations for consultation under Regulation 11A(1). Sufficient time, information and opportunity has been provided as summarised below:

- Consultation Information Sheet publicly available on the Woodside website since September 2022.
- Woodside published advertisements in a national, state and relevant local newspapers on 19 October 2022 advising of the proposed activities and requesting feedback.
- Consultation Information provided to Exxon Mobil on 27 January 2023 based on their function, interest and activities.
- Woodside has sent a follow up emails seeking feedback on the proposed activities.
- Woodside has provided the Exxon Mobil with the opportunity to provide feedback over an 8 month period.

Summary of information provided and record of consultation:

- On 27 January 2023, Woodside emailed Exxon Mobil Australia on the proposed activity (Appendix F, reference 1.127) and provided a Consultation Information Sheet.
- On 22 February 2023, Woodside sent a follow up email (Appendix F, reference 1.174).

Summary of Feedback, Objection or Claim	Woodside Energy's Assessment of Merits of Feedback, Objection or Claim and its Response	Environment Plan Controls
No feedback, objections or claims received despite follow up.	Woodside engages in ongoing consultation throughout the life of an EP. Should feedback be received after the EP has been accepted, it will be assessed and, where appropriate, Woodside will apply its Management of Change and Revision process (see Section 7).	No additional measures or controls are required.

Finder Energy

Woodside considers it has discharged its obligations for consultation under Regulation 11A(1). Sufficient time, information and opportunity has been provided as summarised below:

- Consultation Information Sheet publicly available on the Woodside website since September 2022.
- Woodside published advertisements in a national, state and relevant local newspapers on 19 October 2022 advising of the proposed activities and requesting feedback.

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- Consultation Information provided to Finder on 27 January 2023 based on their function, interest and activities.
- Woodside has sent a follow up emails seeking feedback on the proposed activities.
- Woodside has provided the Finder with the opportunity to provide feedback over an 8 month period.

Summary of information provided and record of consultation:

- On 27 January 2023, Woodside emailed Finder Energy on the proposed activity (Appendix F, reference 1.127) and provided a Consultation Information Sheet.
- On 22 February 2023, Woodside sent a follow up email (Appendix F, reference 1.174).

Summary of Feedback, Objection or Claim	Woodside Energy's Assessment of Merits of Feedback, Objection or Claim and its Response	Environment Plan Controls
No feedback, objections or claims received despite follow up.	Woodside engages in ongoing consultation throughout the life of an EP. Should feedback be received after the EP has been accepted, it will be assessed and, where appropriate, Woodside will apply its Management of Change and Revision process (see Section 7).	No additional measures or controls are required.

KUFPEC

Woodside considers it has discharged its obligations for consultation under Regulation 11A(1). Sufficient time, information and opportunity has been provided as summarised below:

- Consultation Information Sheet publicly available on the Woodside website since September 2022.
- Woodside published advertisements in a national, state and relevant local newspapers on 19 October 2022 advising of the proposed activities and requesting feedback.
- Consultation Information provided to KUFPEC on 27 January 2023 based on their function, interest and activities.
- Woodside has sent a follow up emails seeking feedback on the proposed activities.
- Woodside has provided the KUFPEC with the opportunity to provide feedback over an 8 month period.

Summary of information provided and record of consultation:

- On 27 January 2023, Woodside emailed KUFPEC on the proposed activity (Appendix F, reference 1.127) and provided a Consultation Information Sheet, Consultation FAQ and neighbouring Titleholder map.
- On 22 February 2023, Woodside sent a follow up email (Appendix F, reference 1.174).

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Summary of Feedback, Objection or Claim	Woodside Energy's Assessment of Merits of Feedback, Objection or Claim and its Response	Environment Plan Controls
No feedback, objections or claims received despite follow up.	Woodside engages in ongoing consultation throughout the life of an EP. Should feedback be received after the EP has been accepted, it will be assessed and, where appropriate, Woodside will apply its Management of Change and Revision process (see Section 7).	No additional measures or controls are required.

Western Gas

Woodside considers it has discharged its obligations for consultation under Regulation 11A(1). Sufficient time, information and opportunity has been provided as summarised below:

- Consultation Information Sheet publicly available on the Woodside website since September 2022.
- Woodside published advertisements in a national, state and relevant local newspapers on 19 October 2022 advising of the proposed activities and requesting feedback.
- Consultation Information provided to Western Gas on 27 January 2023 based on their function, interest and activities.
- Woodside has sent a follow up emails seeking feedback on the proposed activities.
- Woodside has provided the Western Gas with the opportunity to provide feedback over an 8 month period.

Summary of information provided and record of consultation:

- On 21 September 2022, Woodside emailed Western Gas advising of the proposed activity (Appendix F, reference 1.47) and provided a Consultation Information Sheet, Consultation FAQ and neighbouring Titleholder map.
- On 13 October 2022, Woodside sent a follow up email (Appendix F, reference 1.71).
- On 27 January 2023, Woodside emailed Western Gas with an update on the proposed activity (Appendix F, reference 1.127) and provided a Consultation Information Sheet.
- On 22 February 2023, Woodside sent a follow up email (Appendix F, reference 1.174).

Summary of Feedback, Objection or Claim	Woodside Energy's Assessment of Merits of Feedback, Objection or Claim and its Response	Environment Plan Controls
No feedback, objections or claims received despite follow up.	Woodside engages in ongoing consultation throughout the life of an EP. Should feedback be received after the EP has been accepted, it will be	No additional measures or controls are required.

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assessed and, where appropriate, Woodside will apply its Management of Change and Revision process (see Section 7).	
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Shell Australia

Woodside considers it has discharged its obligations for consultation under Regulation 11A(1). Sufficient time, information and opportunity has been provided as summarised below:

- Consultation Information Sheet publicly available on the Woodside website since September 2022.
- Woodside published advertisements in a national, state and relevant local newspapers on 19 October 2022 advising of the proposed activities and requesting feedback.
- Consultation Information provided to Shell on 27 January 2023 based on their function, interest and activities.
- Woodside has addressed and responded to Shell over an 8 month period.
- Summary of information provided and record of consultation:
- On 27 January 2023, Woodside emailed Shell Australia with an update on the proposed activity (Appendix F, reference 1.127) and provided a Consultation Information Sheet.
- On 7 February 2023, Shell emailed Woodside and advised that it does not have any feedback on the EPs that were included in Woodside's correspondence.

Summary of Feedback, Objection or Claim	Woodside Energy's Assessment of Merits of Feedback, Objection or Claim and its Response	Environment Plan Controls
Shell has responded and advised it has no feedback on the proposed activity. Whilst feedback has been received, there were no objections of claims.	Woodside notes Shell's advice that it has no feedback on the proposed activity. Woodside engages in ongoing consultation throughout the life of an EP. Woodside notes that further feedback may be received as part of ongoing consultation. Should feedback be received after the EP has been accepted, it will be assessed and, where appropriate, Woodside will apply its Management of Change and Revision process (see Section 7).	Woodside considers the measures and controls described within this EP address the potential impact from the proposed activities on Shells' functions, interests or activities. No additional measures or controls are required.

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Santos

Woodside considers it has discharged its obligations for consultation under Regulation 11A(1). Sufficient time, information and opportunity has been provided as summarised below:

- Consultation Information Sheet publicly available on the Woodside website since September 2022.
- Woodside published advertisements in a national, state and relevant local newspapers on 19 October 2022 advising of the proposed activities and requesting feedback.
- Consultation Information provided to Santos on 27 January 2023 based on their function, interest and activities.
- Woodside has sent a follow up emails seeking feedback on the proposed activities.
- Woodside has provided the Santos with the opportunity to provide feedback over an 8month period.

Summary of information provided and record of consultation:

- On 27 January 2023, Woodside emailed Santos on the proposed activity (Appendix F, reference 1.127) and provided a Consultation Information Sheet.
- On 22 February 2023, Woodside sent a follow up email (Appendix F, reference 1.174).

Summary of Feedback, Objection or Claim	Woodside Energy's Assessment of Merits of Feedback, Objection or Claim and its Response	Environment Plan Controls
No feedback, objections or claims received despite follow up.	Woodside engages in ongoing consultation throughout the life of an EP. Should feedback be received after the EP has been accepted, it will be assessed and, where appropriate, Woodside will apply its Management of Change and Revision process (see Section 7).	No additional measures and controls are required.

Eni Australia

Woodside considers it has discharged its obligations for consultation under Regulation 11A(1). Sufficient time, information and opportunity has been provided as summarised below:

- Consultation Information Sheet publicly available on the Woodside website since September 2022.
- Woodside published advertisements in a national, state and relevant local newspapers on 19 October 2022 advising of the proposed activities and requesting feedback.
- Consultation Information provided to Eni on 27 January 2023 based on their function, interest and activities.
- Woodside has addressed and responded to Eni Australia over an 8 month period.

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- Summary of information provided and record of consultation:
- On 27 January 2023, Woodside emailed Eni Australia on the proposed activity (Appendix F, reference 1.128) and provided a Consultation Information Sheet.
- On 22 February 2023, Woodside sent a follow up email (Appendix F, reference 1.179).
- On 22 February 2023, Eni Australia emailed Woodside to advise it has no comments and that it requested to remain updated on the proposed activity.
- On 23 February 2023, Woodside emailed Eni Australia and confirmed it will provide Eni Australia with commencement and cessation of activity notifications relating to the proposed activity.

Summary of Feedback, Objection or Claim	Woodside Energy's Assessment of Merits of Feedback, Objection or Claim and its Response	Environment Plan Controls
Eni Australia has provided feedback that it has no comment on the proposed activity. Eni Australia has requested to remain updated on the proposed activity. Whilst feedback has been received, there were no objections or claims.	proposed activity. Woodside engages in ongoing consultation throughout the life of an EP. Woodside notes that further feedback may be received as part of	Woodside has consulted Eni Australia in the course of preparing this EP. Woodside has assessed the claims or objections raised by Eni Australia. An additional measure was put in place. Woodside will notify Eni Australia prior to the commencement and at the end of the activity, as referenced as PS 2.4.1 in this EP. Woodside considers the measures and controls described within this EP address the potential impact from the proposed activities on Eni Australia's functions, interests or activities.

OMV Australia / Sapura OMV Upstream (WA)

Woodside considers it has discharged its obligations for consultation under Regulation 11A(1). Sufficient time, information and opportunity has been provided as summarised below:

- Consultation Information Sheet publicly available on the Woodside website since September 2022.
- Woodside published advertisements in a national, state and relevant local newspapers on 19 October 2022 advising of the proposed activities and requesting feedback.
- Consultation Information provided to OMV on 27 January 2023 based on their function, interest and activities.
- Woodside has sent a follow up emails seeking feedback on the proposed activities.
- Woodside has provided the OMV with the opportunity to provide feedback over an 8month period.

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Summary of information provided and record of consultation:

- On 27 January 2023, Woodside emailed OMV Australia / Sapura OMV Upstream (WA) on the proposed activity (Appendix F, reference 1.127) and provided a Consultation Information Sheet.
- On 22 February 2023, Woodside sent a follow up email (Appendix F, reference 1.174).

Summary of Feedback, Objection or Claim	Woodside Energy's Assessment of Merits of Feedback, Objection or Claim and its Response	Environment Plan Controls
No feedback, objections or claims received despite follow up.	Woodside engages in ongoing consultation throughout the life of an EP. Should feedback be received after the EP has been accepted, it will be assessed and, where appropriate, Woodside will apply its Management of Change and Revision process (see Section 7).	No additional measures or controls are required.

JX Nippon Oil & Gas Exploration Corporation

Woodside considers it has discharged its obligations for consultation under Regulation 11A(1). Sufficient time, information and opportunity has been provided as summarised below:

- Consultation Information Sheet publicly available on the Woodside website since September 2022.
- Woodside published advertisements in a national, state and relevant local newspapers on 19 October 2022 advising of the proposed activities and requesting feedback.
- Consultation Information provided to JX Nippon on 27 January 2023 based on their function, interest and activities.
- Woodside has addressed and responded to JX Nippon Oil & Gas Exploration Corporation over an 8 month period.

Summary of information provided and record of consultation:

- On 27 January 2023, Woodside emailed JX Nippon Oil & Gas Exploration Corporation on the proposed activity (Appendix F, reference 1.128) and provided a Consultation Information Sheet.
- On 22 February 2023, Woodside emailed JX Nippon Oil & Gas Exploration Corporation via its website to obtain more up to date contact details for providing the EP Consultation Information (Appendix F, reference 1.179).
- On 23 February 2023, Woodside sent a letter to JX Nippon Oil & Gas Exploration Corporation advising of the proposed activity (Appendix F, reference 1.193). Woodside also sent an email advising of the proposed activity (Appendix F, reference 1.194).
- On 24 February 2023, JX Nippon Oil & Gas Exploration Corporation emailed Woodside to confirm the location and topic of the activity so as to obtain the correct contact to provide feedback.

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- On 24 February 2023, Woodside emailed JX Nippon Oil & Gas Exploration Corporation to advise on the location of the specific proposed activity. Woodside resent the consultation information.
- On 24 February 2023 JX Nippon Oil & Gas Exploration Corporation emailed Woodside and copied in the appropriate contact for reviewing the consultation information.
- On 28 February 2023, Woodside emailed JX Nippon Oil & Gas Exploration Corporation to advise it has updated its stakeholder distribution list.
- On 10 March 2023, Woodside sent a follow up email (Appendix F, reference 1.204).

Summary of Feedback, Objection or Claim	Woodside Energy's Assessment of Merits of Feedback, Objection or Claim and its Response	Environment Plan Controls
received despite follow up.	Woodside engages in ongoing consultation throughout the life of an EP. Should feedback be received after the EP has been accepted, it will be assessed and, where appropriate, Woodside will apply its Management of Change and Revision process (see Section 7).	No additional measures or controls are required.

BP Developments Australia (BP)

Woodside considers it has discharged its obligations for consultation under Regulation 11A(1). Sufficient time, information and opportunity has been provided as summarised below:

- Consultation Information Sheet publicly available on the Woodside website since September 2022.
- Woodside published advertisements in a national, state and relevant local newspapers on 19 October 2022 advising of the proposed activities and requesting feedback.
- Consultation Information provided to BP on 27 January 2023 based on their function, interest and activities.
- Woodside has sent a follow up emails seeking feedback on the proposed activities.
- Woodside has provided the BP with the opportunity to provide feedback over an 8 month period.

Summary of information provided and record of consultation:

- On 27 January 2023, Woodside emailed BP on the proposed activity (Appendix F, reference 1.128) and provided a Consultation Information Sheet.
- On 22 February 2023, Woodside sent a follow up email (Appendix F, reference 1.179).

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Summary of Feedback, Objection or Claim	Woodside Energy's Assessment of Merits of Feedback, Objection or Claim and its Response	Environment Plan Controls
No feedback, objections or claims received despite follow up.	Woodside engages in ongoing consultation throughout the life of an EP. Should feedback be received after the EP has been accepted, it will be assessed and, where appropriate, Woodside will apply its Management of Change and Revision process (see Section 7).	No additional measures or controls are required.

Carnarvon Energy

Woodside considers it has discharged its obligations for consultation under Regulation 11A(1). Sufficient time, information and opportunity has been provided as summarised below:

- Consultation Information Sheet publicly available on the Woodside website since September 2022.
- Woodside published advertisements in a national, state and relevant local newspapers on 19 October 2022 advising of the proposed activities and requesting feedback.
- Consultation Information provided to Carnarvon Energy on 27 January 2023 based on their function, interest and activities.
- Woodside has sent a follow up emails seeking feedback on the proposed activities.
- Woodside has provided the Carnarvon Energy with the opportunity to provide feedback over an 8month period.

Summary of information provided and record of consultation:

- On 27 January 2023, Woodside emailed Carnarvon Energy on the proposed activity (Appendix F, reference 1.128) and provided a Consultation Information Sheet.
- On 22 February 2023, Woodside sent a follow up email (Appendix F, reference 1.179).

Summary of Feedback, Objection or Claim	Woodside Energy's Assessment of Merits of Feedback, Objection or Claim and its Response	Environment Plan Controls
No feedback, objections or claims received despite follow up.	Woodside engages in ongoing consultation throughout the life of an EP. Should feedback be received after the EP has been accepted, it will be assessed and, where appropriate, Woodside will apply its Management of Change and Revision process (see Section 7).	No additional measures or controls are required.

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PE Wheatstone (PEW)

Woodside considers it has discharged its obligations for consultation under Regulation 11A(1). Sufficient time, information and opportunity has been provided as summarised below:

- Consultation Information Sheet publicly available on the Woodside website since September 2022.
- Woodside published advertisements in a national, state and relevant local newspapers on 19 October 2022 advising of the proposed activities and requesting feedback.
- Consultation Information provided to PE Wheatstone on 27 January 2023 based on their function, interest and activities.
- Woodside has sent a follow up emails seeking feedback on the proposed activities.
- Woodside has provided the PE Wheatstone with the opportunity to provide feedback over an 8month period.

Summary of information provided and record of consultation:

- On 27 January 2023, Woodside emailed PEW on the proposed activity (Appendix F, reference 1.128) and provided a Consultation Information Sheet.
- On 22 February 2023, Woodside sent a follow up email (Appendix F, reference 1.179).

Summary of Feedback, Objection or Claim	Woodside Energy's Assessment of Merits of Feedback, Objection or Claim and its Response	Environment Plan Controls
No feedback, objections or claims received despite follow up.	Woodside engages in ongoing consultation throughout the life of an EP. Should feedback be received after the EP has been accepted, it will be assessed and, where appropriate, Woodside will apply its Management of Change and Revision process (see Section 7).	No additional measures or controls are required.

Kyushu Electric Wheatstone (KEW)

Woodside considers it has discharged its obligations for consultation under Regulation 11A(1). Sufficient time, information and opportunity has been provided as summarised below:

- Consultation Information Sheet publicly available on the Woodside website since September 2022.
- Woodside published advertisements in a national, state and relevant local newspapers on 19 October 2022 advising of the proposed activities and requesting feedback.
- Consultation Information provided to KEW on 27 January 2023 based on their function, interest and activities.
- Woodside has sent a follow up emails seeking feedback on the proposed activities.

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Woodside has provided KEW with the opportunity to provide feedback over an 8month period.

Summary of information provided and record of consultation:

- On 27 January 2023, Woodside emailed KEW on the proposed activity (Appendix F, reference 1.128) and provided a Consultation Information Sheet.
- On 22 February 2023, Woodside sent a follow up email (Appendix F, reference 1.179).

Summary of Feedback, Objection or Claim	Woodside Energy's Assessment of Merits of Feedback, Objection or Claim and its Response	Environment Plan Controls
received despite follow up.	Woodside engages in ongoing consultation throughout the life of an EP. Should feedback be received after the EP has been accepted, it will be assessed and, where appropriate, Woodside will apply its Management of Change and Revision process (see Section 7).	No additional measures or controls are required.

Fugro Exploration

Woodside considers it has discharged its obligations for consultation under Regulation 11A(1). Sufficient time, information and opportunity has been provided as summarised below:

- Consultation Information Sheet publicly available on the Woodside website since September 2022.
- Woodside published advertisements in a national, state and relevant local newspapers on 19 October 2022 advising of the proposed activities and requesting feedback.
- Consultation Information provided to Fugro on 27 January 2023 based on their function, interest and activities.
- Woodside has sent a follow up emails seeking feedback on the proposed activities.
- Woodside has provided the Fugro with the opportunity to provide feedback over an 8month period.

Summary of information provided and record of consultation:

- On 27 January 2023, Woodside emailed Fugro Exploration on the proposed activity (Appendix F, reference 1.128) and provided a Consultation Information Sheet.
- On 22 February 2023, Woodside sent a follow up email (Appendix F, reference 1.179).

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Summary of Feedback, Objection or Claim	Woodside Energy's Assessment of Merits of Feedback, Objection or Claim and its Response	Environment Plan Controls
No feedback, objections or claims received despite follow up.	Woodside engages in ongoing consultation throughout the life of an EP. Should feedback be received after the EP has been accepted, it will be assessed and, where appropriate, Woodside will apply its Management of Change and Revision process (see Section 7).	No additional measures or controls are required.

INPEX

Woodside considers it has discharged its obligations for consultation under Regulation 11A(1). Sufficient time, information and opportunity has been provided as summarised below:

- Consultation Information Sheet publicly available on the Woodside website since September 2022.
- Woodside published advertisements in a national, state and relevant local newspapers on 19 October 2022 advising of the proposed activities and requesting feedback.
- Consultation Information provided to INPEX on 13 March 2023 based on their function, interest and activities.
- Woodside has sent a follow up emails seeking feedback on the proposed activities.
- Woodside has provided the INPEX with the opportunity to provide feedback over a 5 month period.

Summary of information provided and record of consultation:

- On 13 March 2023, Woodside emailed INPEX on the proposed activity (Appendix F, reference 1.205) and provided a Consultation Information Sheet.
- On 3 May 2023, Woodside sent a follow up email (Appendix F, reference 1.212)

Sumi	mary of Feedback, Objection or n	Woodside Energy's Assessment of Merits of Feedback, Objection or Claim and its Response	Environment Plan Controls
No fe receiv	ved.	Woodside engages in ongoing consultation throughout the life of an EP. Should feedback be received after the EP has been accepted, it will be assessed and, where appropriate, Woodside will apply its Management of Change and Revision process (see Section 7).	

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Lightmark Enterprises

Woodside considers it has discharged its obligations for consultation under Regulation 11A(1). Sufficient time, information and opportunity has been provided as summarised below:

- Consultation Information Sheet publicly available on the Woodside website since September 2022.
- Woodside published advertisements in a national, state and relevant local newspapers on 19 October 2022 advising of the proposed activities and requesting feedback.
- Consultation Information provided to Lightmark on 27 January 2023 based on their function, interest and activities.
- Woodside has sent a follow up emails seeking feedback on the proposed activities.
- Woodside has provided the Lightmark with the opportunity to provide feedback over an 8 month period.

Summary of information provided and record of consultation:

- On 27 January 2023, Woodside emailed Lightmark Enterprises on the proposed activity (Appendix F, reference 1.208) and provided a Consultation Information Sheet.
- On 22 February 2023, Woodside sent a follow up email (Appendix F, reference 1.180).

Summary of Feedback, Objection or Claim	Woodside Energy's Assessment of Merits of Feedback, Objection or Claim and its Response	Environment Plan Controls
No feedback, objections or claims received despite follow up.	Woodside engages in ongoing consultation throughout the life of an EP. Should feedback be received after the EP has been accepted, it will be assessed and, where appropriate, Woodside will apply its Management of Change and Revision process (see Section 7).	No additional measures or controls are required.

National Energy Resource Australia (NERA) Collaborative Seismic Environment Plan Project (CSEP)

Woodside considers it has discharged its obligations for consultation under Regulation 11A(1). Sufficient time, information and opportunity has been provided as summarised below:

- Consultation Information Sheet publicly available on the Woodside website since September 2022.
- Woodside published advertisements in a national, state and relevant local newspapers on 19 October 2022 advising of the proposed activities and requesting feedback.
- Consultation Information provided to NERA on 11 November 2022 based on their function, interest and activities.
- Woodside has addressed and responded to NERA over an 9 month period.

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Summary of information provided and record of consultation:

- On 11 November 2022, Woodside emailed NERA advising of the proposed activity (Appendix F, reference 1.102) and provided a Consultation Information Sheet. Woodside noted to NERA:
- That the Subsea EP had not yet been submitted to NOPSEMA.
- That the proposed activity is planned to be undertaken within a subset of the activity area for the Scarborough Seismic Survey and may be of interest to NERA.
- That the EP falls under the primary environmental approval of the Scarborough Offshore Project Proposal (OPP) and will be conducted in line with relevant requirements of the OPP. The OPP includes a detailed description of activities and an assessment of impacts; with controls to develop acceptability criteria. It was accepted by NOPSEMA in March 2020 after an extensive public consultation process.
- NERA would be kept informed of any future relevant consultation regarding the activity.
 - On 22 February 2023, Woodside sent a follow up email (Appendix F, reference 1.175).
 - On 24 February 2023, NERA email Woodside:
- NERA confirmed the CSEP has no comments on the proposed activity and it has no planned activities for 2023.
- NERA requested it would like to be kept up to date as to when these activities occur.
 - On 28 February 2023, Woodside emailed and confirmed they will provide NERA with commencement and cessation of activity notifications relating to the proposed activities.
 - On 1 May 2023, NERA emailed Woodside on a separate project advising the Collaborative Seismic EP had been withdrawn and will no longer go ahead. NERA requested that the CSEP be removed from relevant person consultation.
 - On 2 May 2023, Woodside emailed NERA to confirm that Woodside will remove the CSEP from its relative person consultation for future EPs.

Summary of Feedback, Objection or Claim	Woodside Energy's Assessment of Merits of Feedback, Objection or Claim and its Response	Environment Plan Controls
NERA has provided feedback and advised it has no comments on the proposed activity. NERA initially requested to be kept updated with the proposed activity then later advised the CSEP was no longer going ahead and that it can be removed from consultation. Whilst feedback has been received, there were no objections or claims.	Woodside addressed NERA's feedback including confirming it would provide commencement and cessation notifications. However, after NERA later advised the CSEP was no longer proceeding and that the notification is no longer required, Woodside confirmed it would remove the CSEP from its relative person consultation for future EPs. Woodside engages in ongoing consultation throughout the life of an EP. Woodside notes that further feedback may be received as part of ongoing consultation. Should feedback be received after the EP has been accepted, it will be assessed and, where appropriate, Woodside will apply its Management of Change and Revision process (see Section 7).	Woodside considers the measures and controls described within this EP address the potential impact from the proposed activities on NERA's functions, interests or activities. No additional measures or controls are required.

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Peak Industry Representative bodies

Australian Petroleum Production and Exploration Association (APPEA)

Woodside considers it has discharged its obligations for consultation under Regulation 11A(1). Sufficient time, information and opportunity has been provided as summarised below:

- Consultation Information Sheet publicly available on the Woodside website since September 2022.
- Woodside published advertisements in a national, state and relevant local newspapers on 19 October 2022 advising of the proposed activities and requesting feedback.
- Consultation Information provided to APPEA on 21 September 2022 based on their function, interest and activities.
- · Woodside has sent follow up emails seeking feedback on the proposed activities.
- Woodside has provided the APPEA with the opportunity to provide feedback over an 11 month period.

Summary of information provided and record of consultation:

- On 21 September 2022, Woodside emailed APPEA advising of the proposed activity (Appendix F, reference 1.31) and provided a Consultation Information Sheet and Consultation FAQ.
- On 13 October 2022, Woodside sent a follow up email (Appendix F, reference 1.77).
- On 27 January 2023, Woodside emailed APPEA with an update on the proposed activity (Appendix F, reference 1.122) and provided a Consultation Information Sheet.
- On 22 February 2023, Woodside sent a follow up email (Appendix F, reference 1.161).

1	Woodside Energy's Assessment of Merits of Feedback, Objection or Claim and its Response	Environment Plan Controls
received despite follow up.	Woodside engages in ongoing consultation throughout the life of an EP. Should feedback be received after the EP has been accepted, it will be assessed and, where appropriate, Woodside will apply its Management of Change and Revision process (see Section 7).	No additional measures or controls are required.

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Traditional Custodians

Ngarluma Aboriginal Corporation (NAC)

NAC is established under the Native Title Act 1993 by the Ngarluma people to represent the Ngarluma people (defined broadly by reference to descent from the set of ancestors who were known to have a continuous and unbroken connection as the Traditional Custodians at the time of European colonisation) and represent their communal interests including, among other things, management and protection of cultural values.

Woodside has discharged its obligations for consultation under Regulation 11A(1) and consultation with NAC for the purpose of 11A(1) is complete. Sufficient information and a reasonable period have been provided, as described in Section 5.5 of the EP. Specifically:

- Sufficient Information:
- Woodside Sought direction on NAC's preferred method of consultation. This resulted in a face-to-face meeting being coordinated at the location of NAC's choosing, with NAC nominated representatives. This meeting included Woodside presenting information in a format and style that was readily accessible and appropriate.
- Provided Consultation Information Sheets and Consultation Summary Sheets developed by Indigenous staff to NAC. These set out details of the proposed activity, the location of the activity, the timing of the activity as well as the potential risks and impacts of the activity with controls in a digestible, plain English format.
- Articulated planned and unplanned environmental risks and impacts, with proposed controls.
- Set out in detail what was being sought through consultation.
- Asked for the consultation and information sheets to be distributed to members and individuals.
- Woodside has provided NOPSEMA's Brochure "Consultation on offshore petroleum environment plans" and brochure on consultation.
- Guideline "Guideline: Consultation in the course of preparing an environment plan Provided response to questions asked about the activity through consultation. Through
 these questions, NAC have displayed an understanding of the activities under this Environment Plan as well as the broader Scarborough Project.
- Provided response to questions asked about the activity through consultation.
- Advised that NAC can request that particular information provided in the consultation not be published (to align with 11A(2)(4))
 - Reasonable Period:
- Woodside published advertisements in national, state, and relevant local newspapers including The Australian, The West Australian, Pilbara News (October 2022 and January 2023), Midwest Times, Northwest Telegraph and Geraldton Guardian (January 2023) advising of the proposed activities and requesting comments or feedback.
- Consultation information provided to NAC on 20 January 2023 based on their function, interest, and activities.
- Woodside commenced consultation with NAC in January 2023. Woodside has addressed and responded to NAC over 9 months, demonstrating a "reasonable period" of consultation.

Woodside asked NAC if it was aware of any other Traditional Custodian groups or individuals with whom Woodside should consult. None were identified.

Woodside has provided a reasonable opportunity for input since January 2023 and a genuine two-way dialogue has occurred via a meeting and written exchanges to further understand the environment in which the activity will take place. NAC has engaged with the detail of the activity asking related questions. The details of these engagements are described in the consultation summary below.

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Woodside engages in ongoing consultation, beyond that required by Regulation 11A, throughout the life of an EP. Should feedback be received after the EP has been accepted (including any relevant new information on cultural values), it will be assessed and, where appropriate, Woodside will apply its Management of Change and Revision process (see Section 7.8.1 of the EP).

Woodside considers the measures and controls described in this EP address the potential impact from the proposed activity on NAC's functions, interests or activities.

Summary of information provided and record of consultation:

Summary of broader Scarborough Project engagement and Ethnographic Survey:

- On 1 May 2019, cultural authorities nominated by NAC attended an ethnographic survey in conjunction with other Ngarda Ngarli People (the Traditional Custodians of Murujuga, comprising the Ngarluma, Mardudhunera, Wong-Goo-Tt-Oo, Yaburara and Yindjibarndi people) and both male and female heritage consultants consistent with industry standard practice:
 - While this survey was conducted nominally for the Scarborough project's development footprint, a landscape-scale approach was undertaken particularly
 given the limited knowledge of the submerged landscape. This survey found no ethnographic values within the Operational Area or EMBA.
 - Participants contributed to the findings and recommendations of Mott 2019 which included:
 - Onshore heritage sites were identified, beyond the Operational Area and EMBA of this EP.
 - No known sites or values were identified beyond the low water mark, but the potential for cultural values to exist was identified as requiring further research.
 - Recommendation to keep Traditional Custodians informed including through existing quarterly meetings (see below)
 - Recommendation to engage with researchers on options to identify submerged heritage.
 - Recommendation for cultural awareness training for contractors
 - Recommendations for the management of onshore heritage sites beyond the Operational Area and EMBA of this EP
 - Following the recommendations of Mott 2019, Woodside conducted further work to identify submerged heritage values (refer to Section 4.9.1), kept NAC informed of the progress of the Scarborough project through quarterly meetings (see below), and where appropriate ensure employees and contractors have completed cultural awareness training through MAC.
 - Woodside also took steps in consultation with NAC to appropriately manage onshore heritage sites beyond the Operational Area and EMBA of this EP.
- On 23 September 2022, Woodside emailed NAC advising of the proposed activity (Appendix F, reference 1.53) and provided a Consultation Information Sheet and Consultation FAQ inviting feedback. On 12 October 2022, Woodside sent a follow up email (Appendix F, reference 1.60).
- On 6 January 2023, Woodside left a voicemail with NAC advising Woodside is seeking to consult on Scarborough projects and requesting call back.
- On 17 January 2023, Woodside left a voicemail with NAC following up and reiterating that Woodside is seeking to consult on Scarborough projects and requesting call back to discuss NAC's preferred method of consultation.
- On 20 January 2023, Woodside emailed NAC advising of the proposed activity (Appendix F, reference 1.110) and provided a simplified Consultation Information
 Sheet (including a link to the detailed information sheet on Woodside's website) as well as a summary overview fact sheet. Woodside made clear it was prepared to
 consult in the manner and location preferred by NAC and resource the meeting appropriately. Woodside requested that the information be forwarded to NAC
 members as required.
- On 26 January 2023, Woodside and NAC representatives met to discuss the proposed activity in more detail.

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- On 3 February 2023, Woodside and NAC representatives met in Roebourne to discuss how best to consult on the proposed activity.
- On 17 February 2023, Woodside spoke with NAC representatives to discuss the proposed activity and to plan further engagement on a range of Woodside EPs. NAC representatives stated there would be opportunity at the NAC March Board meeting for further engagement.
- On 24 February 2023, Woodside sent a follow up email on a range of Woodside EPs, including the proposed activity and following on from the 17 February 2023 meeting (Appendix F, reference 1.1968). Woodside noted it is seeking NAC's feedback as soon as possible on the proposed activity. Woodside made clear it was prepared to consult in the manner and location preferred by NAC and resource the meeting appropriately.
- On 24 February 2023, NAC emailed Woodside to acknowledge receipt of Woodside's emails noting that it was yet to attend to the emails and would do so following the w/c 27 February 2023.
- On 9 March 2023, Woodside emailed NAC and left a phone message to follow up on the email received 24 February 2023:
 - Woodside advised it was seeking opportunity for Woodside to present to the NAC board with an EP overview and to ascertain whether there had been any progress in terms of securing a preferred day and timeslot.
- On 9 March 2023, NAC emailed Woodside to advise that the contact at NAC was unavailable to meet on 30 March 2023.
- On 9 March 2023, Woodside emailed NAC:
 - Woodside noted that during a previous meeting, NAC had advised its next board meeting would be held on 29 and 30 March and that Woodside would be potentially assigned time on the agenda to present to the NAC Board on either one of those days.
 - Woodside advised that this is an important opportunity to ensure that NAC Board have the opportunity to provide feedback on the EPs and whether they have interests in the environment that may be affected (EMBA).
 - Woodside welcomed the suggestion of alternative days/times or ways it can provide an overview to NAC the board.
- On 10 March 2023, NAC emailed Woodside to advise that it's March board Meeting was full of overspills from January and February and at this stage will need to leave the Environmental Plan consultation until the April meeting.
- On 14 March 2023, Woodside emailed NAC to request the dates for the April board meeting and to confirm what time Woodside might be allocated to present at NAC's earliest convenience.
- On 14 March 2023, NAC emailed Woodside to advise that the Board meeting is tentatively set for 29th April 2023. NAC advised this needed to be confirmed with the NAC Board before a commitment on time or date could be given.
- Between 12-17 April 2023, NAC and Woodside exchanged emails with Woodside seeking confirmation of the April board date and whether Woodside would have time on the agenda.
- On 17 April 2023, Woodside emailed NAC noting there had been no confirmation of an April meeting and sought advice on whether NAC had feedback in relation to the proposed activities. The email explained Woodside's plan to submit the EP and that Woodside was seeking pre-submission feedback, noting that feedback could be provided for the life of the EP. Woodside sought an email supporting the approach and also looked forward to meeting in future.
- On 20 April 2023, NAC emailed Woodside acknowledging receipt of the materials and asked questions of an unrelated EP.
- On 20 April 2023, NAC emailed Woodside noting that the next board meeting would be 26 April 2023 and asking if Woodside still would like to attend.
- On 20 April 2023, Woodside emailed NAC confirming that Woodside would appreciate time to present at the Board meeting.

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- On 20 April 2023, NAC emailed Woodside requesting any documentation for the board meeting packs.
- On 21 April 2023, NAC advised there was no time for Woodside on the April agenda, but time would be set aside for May, with a tentative date of 17 May 2023.
- On 21 April 2023, Woodside thanked NAC for their response.
- On 28 April 2023, Woodside emailed NAC advising that the next step is for the EP to be submitted but no feedback has been received to date. Stated that before Woodside submits, Woodside seeks to understand whether there are any issues or concerns with the proposed activities that need to be reflected in the EP.
- (2) On 10 May 2023, NAC replied to Woodside stating that they were supportive of submission of the EP and looked forward to ongoing consultation.
- On 12 May 2023, NAC emailed Woodside to notify that Woodside had been allocated a one-hour window in the NAC Board Meeting on 17 May
- On 17 May 2023, Woodside presented to the NAC Board of Directors in Karratha:
 - Woodside opened the meeting with introductions.
 - Woodside thanked the Ngarluma Aboriginal Corporation (NAC) for inviting Woodside Energy to speak with them and provided Acknowledgement of Country
 - Woodside talked through agenda and reasons for consultation.
 - Woodside introduced the regulations we need to comply with and the role of NOPSEMA. Explained that many of our activities could impact Ngarluma country in the highly unlikely event of an oil spill, and some activities like Scarborough could have a more direct impact.
 - Woodside referred to an example EMBA and described how it is comprised of many replicates of a single spill.
 - Woodside explained that we are consulting with many people up and down the coastline including multiple Aboriginal Corporations
 - Woodside proposed what consultation outcomes it would like to meet with NAC, including understanding.
 - How the activities could impact cultural values, functions, interests or activities
 - Whether protecting the environment is enough to protect these things
 - What NAC's concerns are about the proposed activities and what NAC thinks we should do about it?
 - If there's anything NAC would like included in EPs
 - Woodside noted that feedback will be welcomed throughout the life of all Environment Plans
 - Woodside provided a high-level overview of the Scarborough project.
 - Woodside provided an overview of each proposed Scarborough activity (including Seismic Survey, Drilling and Completions, Seabed Intervention and Trunkline Installation and Subsea Infrastructure Installation) and a summary of both planned and unplanned impacts and associated controls. This included the use of a video showing the general process of drilling and completions which was designed for public audience.
 - (1) NAC asked when the activities were proposed to happen, Woodside responded later this year pending government approvals
 - Woodside described the Scarborough subsea installation activities, including gravimetry, flowline, umbilical and structure installation. Equipment will be left with chemically treated water inside; no hydrocarbons will be introduced at this stage.
 - Woodside asked if there was any further feedback or questions about these activities, none were received.

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- Woodside described the planned and unplanned environmental impacts and risks of the activities described in the meeting and proposed controls, in accordance with the Information Sheets
- Woodside asked whether there are any questions on the environmental risks and impacts, none were received.
- Woodside noted that any questions or considerations can be directed through , or the Quarterly Heritage Meetings which NAC has a standing invite to, noting that those meetings were also an opportunity to discuss job opportunities and other matters.
- Woodside left hard copies of Information Sheets and Plain Language Summaries for each discussed activity with NAC attendees.
- On 18 July 2023, Woodside emailed NAC NOPSEMA's Consultation Guidelines, Consultation Brochure, and Draft Policy for Managing Gender-Restricted
 Information. This email also reiterated Woodside's request that NAC advise Woodside of any other Traditional Custodian groups or individuals with whom Woodside
 should consult. No response was received to this email.
- On 26 July 2023, Woodside emailed NAC Woodside's planned Program of Ongoing Engagement with Traditional Custodians.
- On 2 August 2023, Woodside emailed NAC regarding the acceptance of a separate Scarborough EP and asking for information in accordance with conditions of acceptance of that EP, specifically whether NAC is aware of any people, who in accordance with Indigenous tradition, may have spiritual or cultural connections to the environment that may be affected by the activity that have not yet been afforded the opportunity to provide information that may inform management of the activity. The email also contained links to information on NOPSEMA's publications on EP consultation and its purpose. It also made clear that any gender restricted, or culturally sensitive information would be managed carefully and appropriately. An offer of support to participate in consultation was made.
- On 9 August 2023, Woodside emailed NAC again seeking feedback and information relating to a separate Scarborough EP that had been accepted, stating the conditions of acceptance of that EP:
 - o if NAC were aware of any people, who in accordance with Indigenous tradition, may have spiritual and cultural connections to the environment that may be affected by the activity that have not yet been afforded the opportunity to provide information that may inform the management of the activity; and
 - o if there was any information, they wished wish to provide on cultural features and/or heritage values.
 - the email gave the planned commencement of activity under that EP and stated that if no feedback had been received by COB on the day prior, it
 would be taken to mean no information was desired to be given prior to commencement.
 - o the email also described the purpose of consultation.
- On 10 August 2023, NAC emailed Woodside to express limited capacity and notify an alternate contact who would be handling EP consultation.
- On 10 August 2023, Woodside emailed NAC apologising for the influx of emailed and confirming contact details.
- On 11 August 2023, Woodside held a web meeting with NAC to discuss plans for consultation. NAC requested a list of EPs for which Woodside would seek input from NAC. NAC indicated that it would establish a Working Group which would hold bi-monthly engagements with Woodside. It also noted ongoing capacity issues.
- On 16 Aug 2023, Woodside emailed NAC seeking to re-establish a regular meeting cadence and proposing to commence in the following week.
- On 15 September 2023, Woodside emailed NAC acknowledging the previous email, advising of the planned start date for the activity, and once again requesting if NAC is aware of any other people with whom Woodside should consult, and if there is any information NAC wish to provide on cultural values. The email requested that information be distributed to members or individuals who may be interested. It requested this information prior to 28 September 2023, but reiterated that

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Woodside would take feedback after the commencement of the activity as part of ongoing consultation. The Summary Information Sheet for this activity was attached. No response was received to this email.

- (3) On 18 September 2023, NAC emailed Woodside proposing:
 - establishment of Joint Working Group.
 - Woodside to provide draft agreement.
 - Working group meeting commence in October with monthly meetings.
 - Noting arrangements would cover future scope of consultations with NAC.
- On 28 September 2023, NAC representative emailed Woodside requesting a phone discussion about consultations with NAC.
- (3) On 28 September 2023, Woodside had a phone discussion with NAC representative, they were following up on Woodside consultation requests and wished to progress a consultation meeting with NAC Working Group in October. They requested Woodside:
- Propose date/s to meet.
- Confirm they would cover cost.
- Provide any relevant information prior to the meeting.
- Advise which Eps Woodside would like to consult with NAC on.
- Woodside agreed to follow up on the above and looked forward to meeting with the Working Group in October.
- On 10 October 2023, Woodside emailed NAC in response to their email of 18 September 2023, with in principle support of NAC's proposal for ongoing consultation through a Working Group. Woodside requested meeting dates and confirmed that Woodside would provide a first draft of the agreement.

Quarterly Heritage Meetings:

- Woodside convenes a quarterly meeting of Traditional Custodian representatives from the Representative Aboriginal Corporations involved in historical native title
 claims over the Burrup Peninsula, including NAC. Individual attendees are nominated by their representative Aboriginal Corporations. These meetings are summarised
 separately in this table.
- NAC did not nominate attendees to quarterly meetings in 2021 or the first half of 2022 but were provided with copies of the slides used which included overviews of the Scarborough Project.

	Summary of Feedback, Objection or Claim	Woodside Energy's Assessment of Merits of Feedback, Objection or Claim and its Response	Environment Plan Controls
(During face-to-face engagements related to this activity and others, NAC asked:	(1) Woodside responded to NAC requests for further information during face-to-face engagements, and no further information was requested on these topics.	(1) Existing controls considered sufficient as described in Section 6 .
•	When the activities were proposed to commence.	(2) NAC is supportive of this EP submission.	(2) Not required.
•	How many people crew the drill rig.		(3) Woodside is implementing a program to actively support Traditional Custodians' capacity for ongoing

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Whether the pipeline is covered over.

NAC emailed Woodside on 10 May 2023, supporting submission of this EP and looking forward to ongoing consultation.

NAC proposed establishing a Joint Working Group to engage in meetings with Woodside for ongoing consultation. NAC noted they have capacity issues and require resourcing to cover costs of meeting.

(3) Separate from consultation under Reg 11A, Woodside will establish an agreement with NAC to work with the NAC Working Group. The agreement and Working Group would be used to frame ongoing consultation. Sufficient information to allow informed assessment has already been provided by other means, including summary sheets developed by Indigenous staff, a face-to-face meeting with appropriate material (pictures, maps, video) and project attendance allowing opportunity to ask questions and seek further understanding.

Woodside engages in ongoing consultation throughout the life of an EP. Should feedback be received after the EP has been accepted (including any relevant new information on cultural values), it will be assessed and, where appropriate, Woodside will apply its Management of Change and Revision process (see **Section 7.8.1**).

engagement and consultation on environmental plans referenced as **PS 14.2.1** in this EP. This includes continued engagement through the proposed Framework Agreement which will be applied to ongoing consultation.

Murujuga Aboriginal Corporation (MAC)

MAC is established under the Burrup and Maitland Industrial Estates Agreement and is the representative body for the Traditional Custodians for Murujuga being the Ngarluma, the Mardudhunera, the Yaburara, the Yindjibarndi, and the Wong-Goo-Tt-Oo peoples (collectively Ngarda-Ngarli). MAC is the cultural authority for Murujuga and is responsible for the management and protection of its cultural values.

Woodside has discharged its obligations for consultation under Regulation 11A(1) and consultation with MAC for the purpose of 11A(1) is complete. Sufficient information and a reasonable period have been provided, as described in Section 5.5 of the EP. Specifically:

- Sufficient Information:
 - Woodside Sought direction on MAC's preferred method of consultation. This resulted in face-to-face meetings being coordinated at the location of MAC's choosing, with MAC nominated representatives. These meetings included Woodside presenting information in a format and style that was readily accessible and appropriate.
 - Provided Consultation Information Sheets and Consultation Summary Sheets to MAC. These set out details of the proposed activity, the location of the activity, the timing of the activity as well as the potential risks and impacts of the activity with controls in a digestible, plain English format.
 - Articulated planned and unplanned environmental risks and impacts, with proposed controls.
 - Set out in detail what was being sought through consultation.
 - Asked for the consultation and information sheets to be distributed to members and individuals.
 - Woodside has provided NOPSEMA's Brochure "Consultation on offshore petroleum environment plans" and Guideline "Guideline: Consultation in the course of preparing an environment plan.

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- Provided response to questions asked about the activity through consultation. Through these questions, MAC have displayed an understanding of the activities under this Environment Plan as well as the broader Scarborough Project.
- Advised that MAC can request that particular information provided in the consultation not be published (to align with 11A(2)(4))
- Reasonable Period:
 - Woodside published advertisements in national, state, and relevant local newspapers including The Australian, The West Australian, Pilbara News (October 2022 and January 2023), Midwest Times, Northwest Telegraph and Geraldton Guardian (January 2023) advising of the proposed activities and requesting comments or feedback.
 - Woodside first met with MAC to discuss the activity in August 2020
 - Consultation information provided to MAC on 20 January 2023 based on their function, interest, and activities.
 - Woodside has addressed and responded to MAC over three years, demonstrating a "reasonable period" of consultation.

Woodside asked MAC if it was aware of any other Traditional Custodian groups or individuals with whom Woodside should consult. None were identified.

Woodside has provided a reasonable opportunity for input since January 2023 and a genuine two-way dialogue has occurred via meetings and written exchanges to further understand the environment in which the activity will take place. MAC has engaged with the detail of the activity asking related questions. The details of these engagements are described in the consultation summary below.

Woodside engages in ongoing consultation, beyond that required by Regulation 11A, throughout the life of an EP. Should feedback be received after the EP has been accepted (including any relevant new information on cultural values), it will be assessed and, where appropriate, Woodside will apply its Management of Change and Revision process (see Section 7.8.1 of the EP).

Woodside considers the measures and controls described in this EP address the potential impact from the proposed activity on MAC's functions, interests or activities.

Summary of information provided and record of consultation:

Historical Engagement

- Woodside has been consulting with MAC on the Scarborough project area generally since 2018, including over the area for which this EP relates. Below is evidence
 of the ongoing consultation.
- 12 June 2018 Meeting: Woodside provided a briefing on several projects including Scarborough.
- 11 September 2018 Meeting: Woodside provided a briefing on Scarborough's approvals pathway, schedule and proposed engagement approach.
- 12 December 2018 Meeting: Woodside provided a briefing on Scarborough's construction footprint and future engagement.
- On 1 May 2019, cultural authorities nominated by MAC attended an ethnographic survey in conjunction with other Ngarda Ngarli People (the traditional custodians of Murujuga, comprising the Ngarluma, Mardudhunera, Wong-Goo-Tt-Oo, Yaburara and Yindjibarndi people) and both male and female heritage consultants consistent with industry standard practice.

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- While this survey was conducted nominally for the Scarborough project's development footprint, a landscape-scale approach was undertaken particularly given the limited knowledge of the submerged landscape. This survey found no ethnographic values within the Operational Area or EMBA.
- Participants contributed to the findings and recommendations of Mott 2019 (which is publicly available) which included:
- Onshore heritage sites were identified, beyond the Operational Area or EMBA of this EP.
- No known sites or values were identified beyond the low water mark, but the potential for cultural values to exist was identified as requiring further research.
- Recommendation to keep Traditional Custodians informed of the project.
- Recommendation to engage with researchers on options to identify submerged heritage.
- Recommendation for cultural awareness training for contractors.
- Recommendations for the management of onshore heritage sites beyond the Operational Area or EMBA of this EP.
- Following the recommendations of Mott 2019, Woodside conducted further work to identify submerged heritage values (refer to Section 4.9.1), kept MAC informed of the progress of the Scarborough project, and where appropriate ensured employees and contractors have completed cultural awareness training through MAC.
 - On 10 September 2019, MAC issued a letter to Woodside with formal comment on Dredging and Spoil Disposal Management Plan (DSDMP) (Revision 0) and request for meeting.
 - On 11 October 2019, Woodside provided written response to MAC's comments on the DSDMP raised in the 10 September 2019 letter, along with the copy of the revised DSDMP (Revision 1) incorporating changes made in response to these comments.
 - On 15 October 2019. Woodside met with MAC and discussed comments raised on the DSDMP.
 - On 6 November 2019, Woodside provided written response to MAC's comments on the DSDMP raised in a briefing note, along with the copy of the revised DSDMP (Revision 2) incorporating changes made in response to these comments.
 - On 2 December 2019, MAC provided additional comments in response to the 6 November 2019 letter.
 - On 6 December 2019, Woodside provided tabulated responses to MAC's comments raised after the 15 October 2019 meeting.
 - On 7 January 2020, Woodside emailed MAC with a letter formally requesting a series of engagements to resolve outstanding concerns.
 - On 10 January 2020, MAC emailed Woodside informing that MAC supports the proposed approach and is available to meet from mid-January 2020, requesting an agenda.
 - On 14 January 2020, Woodside emailed MAC proposing that for the first meeting, agenda should be identifying key issues for both parties and agreeing way forward. Woodside informed MAC that beyond the first meeting, Woodside's aim is to finalise the DSDMP and CHMP in consultation with MAC and guided by MAC's concerns as outlined in previous correspondence.
 - On 17 January 2020, MAC requested additional information from Woodside I the form of an 'information package'. Woodside delivered the component of this
 information package relate to the DSDMP.
 - On 17 January 2020, Woodside emailed MAC in agreement with the suggestions for an effective way forward.
 - On 27 March 2020, MAC issued a report to Woodside with feedback across three issues including review and MAC response to updated DSDMP (Rev 2 submitted to EPA.).

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- On 10 July 2020, Woodside presented to MAC a proposed DSDMP engagement roadmap, update on the project, and discussed impact assessment approach for sediment related impacts including modelling and tiered monitoring and management framework.
- On 14 August 2020, Woodside issued MAC a detailed written response to comments on Rev 2 of the DSDMP received 27 March 2020.
- On 25 August 2020, Woodside CEO and MAC Board met in person at the MAC office on Murujuga about a number of issues including high-level summary of Scarborough project.
- MAC members expressed a positive opinion of Woodside and a desire to work together in partnership to achieve future ambitions.
- On 2 October 2020, Woodside email MAC to request advice on progressing a Scarborough ethnographic survey, to be completed by MAC with a final report
 provided to Woodside:
- On 5 October 2020, MAC called Woodside to discuss way forward with the proposed Scarborough ethnographic survey.
- On 6 October 2020, Woodside emailed MAC about conducting to confirm arrangements and request an updated quote.
- On 8 October 2020, Woodside finalised the requested scope of works for the ethnographic survey to identify heritage values known to exist in the nearshore or
 offshore footprints of the Scarborough project or surrounding seascape.
- From 20-22 October 2020 members of MAC's Circle of Elders participated in an on-country ethnographic survey with both male and female heritage consultants, consistent with industry standard practice.
- The heritage consultants were selected by MAC, who also coordinated the survey and guided the consultations.
- The resulting report is owned by MAC and was approved by the Circle of Elders prior to being provided to Woodside. This survey included the entire Scarborough Project development area, including the Operational Area for this EP.
- This survey was undertaken at a landscape level. Due to the distance of the Operational Area from onshore and coastal areas where the participants are known to hold rights and interests it was not practical to limit the scope of this assessment to a defined boundary.
- Additionally, in areas of open water beyond the Ancient Landscape that would have been occupied by ancestral people, the relevant values are not expected to have clearly defined or discrete distributions.
- Therefore, participants were provided with a map of the Scarborough development and asked to identify any values in the surrounding landscape. Consistent with the understanding that cultural values cannot be extrapolated over long distances offshore beyond any native title claims, determinations or ILUAs, no cultural values were identified in the Operational Area or EMBA (McDonald and Phillips 2021). Recommendations of the report related to onshore, nearshore islands and the Ancient Landscape outside the Operational Area of this EP.
 - On 11 December 2020, Woodside provided a full-day presentation on Scarborough construction methodology, including seabed intervention techniques to MAC.
 MAC nominated their consultants to attend this meeting. No feedback was received on the proposed activity during presentation.
- At the same meeting, discussed the seabed intervention and shore crossing works addressed in the DSDMP.
- On 2 February 2021, Woodside met with MAC and presented and discussed: seabed intervention and shore crossing scope; and revised sediment dispersal modelling.
- On 16 February 2021, Woodside met with MAC and presented and discussed: nearshore activities; benthic communities and habitat mapping; sediment dispersion modelling; ecological zones and coral compositions; modelling thresholds and outcomes; environment quality guidelines.

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- On 25 February 2021, Woodside met with MAC and provided a fly-through of the trunkline corridor using GIS data and modelling layers. The was also a presentation and discussion about baseline water quality data and tiered monitoring and management framework.
- On 10 March 2021 Woodside provided an overview of the Scarborough project to MAC's CEO. No feedback was received on the proposed activity.
- On 19 and 20 May 2021 Woodside provided an overview of the Scarborough project to MAC's Circle of Elders. No feedback was received on the proposed activity.
- On 22 June 2021, MAC provided a report (McDonald and Phillips 2021) on the ethnographic survey to Woodside. MAC has not consented to Woodside sharing this report. It contained the following recommendations:
- That further ethnographic survey ("Phase II") is conducted.
- That bathymetric mapping and other information is provided to MAC.
- That MAC and Woodside continue to consult on heritage management.
- That an onshore heritage site, outside the Operational Area, be registered by MAC.
- The report did not identify any sites within the Operational Area or EMBA.
 - On 7 July 2021 a meeting was held with a presentation and discussion about submerged heritage assessments completed to date and mitigations proposed.
 - On 13 July 2021 and 20 July 2021 Woodside met with MAC to discuss the scope of the Phase II survey. Woodside re-committed support for this work on the
 condition that MAC considered it necessary.
 - On 23 July 2021, at a meeting, Woodside provided further information and discussion about seabed intervention scope and use of spoil grounds to be included in Revision 3 of the DSDMP.
 - On 30 July 2021, at a meeting with MAC, Woodside provided further information and discussion about water quality monitoring sites Woodside and MAC discussed the location and number of water quality sites for the monitoring program; protection of marine fauna; and how other matters raised by MAC will be addressed in DSDMP Revision 3.
 - On 11 November 2021, at MAC's request, Woodside provided a condensed presentation on seabed intervention techniques to MAC's submerged heritage consultant. No feedback was received on proposed activity during presentation.
 - On 11 November 2021 –MAC provided Woodside a presentation/position about intangible heritage values. This report included a summary of the cultural and spiritual values of the marine environment to be considered in the DSDMP.
 - On 15 December 2021 -Woodside met with MAC Board and Circle of Elders to provide a project overview.
 - (3) On 9 January 2022 Woodside sent a letter to MAC clarifying roles, composition, funding and milestones around the Heritage Management Committee.
 - (1&2) On 2 February 2022, Woodside proposed to MAC the establishment of a Heritage Management Committee (HMC) whose role would be to consider the necessary mitigation measures required to address any new heritage information arising following certain milestones related to the Scarborough Project and advise Woodside where any additional mitigation measures are recommended and of any other actions MAC or Woodside should consider.
 - On 10 February 2022, Woodside met with MAC to discuss Scarborough trunkline construction activities and the links to associated approvals including the State and Commonwealth Environment Plans and the DSDMP and CHMP.

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- A presentation pack prepared for the MAC Circle of Elders detailing Scarborough Project trunkline construction activities and associated environmental and cultural heritage management measures was reviewed.
- Several actions were agreed to assist in finalising the Environment Plans, DSDMP and associated CoE presentation pack.
 - On 25 February 2022 an all-day meeting was held between MAC and Woodside on heritage management and on 28 February 2022 an email of action items from meeting held on 25 February was sent to MAC:
 - Woodside met with MAC representatives on 25 March 2022:
- Opportunities for MAC commercial participation in the activity were discussed, including for MAC Marine Fauna Observers
- Further discussion of activities outside the scope of the EP was held.
 - On 30 March 2022, Woodside emailed MAC to confirm MAC's three areas of concern regarding the activities of this EP in Commonwealth waters, as follows:
- Indirect impacts as a result of the broader Scarborough Project (i.e. potential impacts to Murujuga from onshore emissions associated with processing Scarborough gas).
- Uncertainty over the results of further ethnographic surveys
- Cultural heritage management approach of the project, particularly regarding submerged heritage.
- On 1 April 2022, MAC emailed Woodside thanking for the email on 30 March 2022 and committing to responding in the next week.
- On 6 April 2022, Woodside emailed MAC requesting a response so that it could begin actioning.
- On 6 April 2022, MAC sent an email confirming that this reflected the three major outstanding issues at a high level, but requesting greater clarity on how this EP would be updated to reflect MAC's concerns.
- The email also queried whether Woodside had contracted an underwater archaeologist and proposed an action list for the Senior Corporate Affairs Adviser Heritage.
 - On 6 April 2022, Woodside emailed MAC to propose that the following wording be incorporated into this EP and asked for confirmation that these points captured the
 matters of concern to MAC.
- The extraction of Scarborough gas for onshore processing is not included in the Petroleum Activities Program for this EP. Therefore, indirect impacts and risks arising
 from the onshore processing of Scarborough gas are not considered indirect impacts/risks of this Petroleum Activities Program but will be evaluated in future Scarborough
 EPs as appropriate.
- The completed ethnographic surveys, which align with industry practice, have not identified any heritage risks. Woodside remains committed to the further ethnographic surveys planned for the Scarborough project which go beyond industry standards and is ready to progress these at MAC's earliest availability. The results of these surveys will be addressed through the Heritage Management Committee proposed below.
- Woodside has accepted MACs recommendation to supplement existing heritage works completed with a review of Side Scan Sonar data for the outer shelf area by an underwater archaeologist, expert advice on further works and the development of significance, impact and mitigation assessments. New information arising from this work after relevant approvals are received will be presented to a Heritage Management Committee with representatives from MAC, Woodside and relevant experts to formulate recommendations to the project.
 - On 8 April 2022, Woodside called and emailed MAC to enquire whether MAC had any feedback on the proposed Environment Plan amendments.
 - On 8 April 2022, MAC emailed stating that their position is that all feedback provided during the consultation process to date is expected to be incorporated.
 - On 27 April 2022, Woodside presented to the MAC Board on the Scarborough projects. MAC Board raised concerns about the appropriateness of the Phase II
 ethnographic survey.

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- In a follow up to the 27 April 2022 meeting, on 18 May 2022, Woodside provided a letter to MAC requesting advice as to whether the Phase II survey was still supported by MAC.
- On 29 April 2022, Woodside emailed MAC a copy of updates made to the EP as a result of recent consultation, including new Environmental Performance Outcomes, Standards and Measurement Criteria, and suggesting that additional feedback be directed to NOPSEMA.
- On 9 May 2022, MAC wrote a letter to NOPSEMA, reiterating their concern that the EP does not account for indirect impacts as a result of the broader Scarborough Project (e.g. potential impacts to Murujuga from onshore emissions associated with processing Scarborough gas). NOPSEMA provided this letter to Woodside on 30 May 2022.
- On 11 May 2022, following up from the 27 April 2022 meeting, Woodside sent a letter to MAC requesting advice as to whether the Phase II survey was still supported by MAC.
- On 18 May 2022, Woodside attended MAC office and left a copy of the letter sent 11 May 2022.
- (3) On 15 June 2022 Woodside held a meeting with MAC to discuss the scope, purpose and composition of the Heritage Management Committee (HMC). MAC committed to providing feedback on the HMC in writing.
- On 28 June 2022 MAC provided a letter to Woodside reconfirming their commitment to carry out the Phase II survey.
- Woodside remains committed to supporting MAC to conduct the Phase II works at the earliest date convenient to MAC and their preferred consultant but will also respect
 any decision by MAC not to proceed.
- Woodside believes it has taken all reasonable steps to progress this work and is committed to support this additional ethnographic survey work to be undertaken, subject to MAC undertaking the works.
- Available bathymetric and other geophysical data is depicted in UWA 2021 and was provided to MAC on 18 May 2021 after the survey but prior to receiving McDonald and Phillips 2021.
- (2) On 20 September 2022 Woodside sent an email to MAC seeking permission to share ethnographic survey results with NOPSEMA.

Ensuring Sufficient Information and Reasonable Period or Time

- On 23 September 2022, Woodside emailed MAC advising of the proposed activity (Appendix F, reference 1.50) and provided a Consultation Information Sheet and Consultation FAQ (Appendix F. 1.51)
- On 28 September, Woodside phoned MAC as a follow up to seek permission to share ethnographic survey results with NOPSEMA.
- On 5 October 2022, Woodside emailed MAC seeking feedback on Heritage Management Committee.
- On 7 October 2022 MAC provided a response to the HMC proposed by Woodside on 2 February 2022, including a number or suggested changes:
- That recommendations of the HMC need not be unanimous,
- That the HMC include MAC staff in addition to MAC Board, executive and Circle of Elders,
- That developments in regard to the World Heritage listing of the Murujuga Cultural Landscape not trigger any meeting of the HMC, and
- Regarding the funding structure of the HMC.
 - On 11 October 2022, Woodside emailed MAC seeking permission to share ethnographic survey results with NOPSEMA.
 - On 12 October 2022, Woodside sent a follow-up email (Appendix F, reference 1.50) regarding proposed activity.

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- On 18 October 2022, Woodside emails MAC seeking permission to share ethnographic survey results with NOPSEMA.
- On 3 November 2022, Woodside placed a phone call with MAC regarding the Scarborough Ethnographic Survey (McDonald and Phillips 2021).
- On 14 November 2022, MAC provided correspondence (marked private & confidential) in response to Woodside's phone call on 3 November 2022. The correspondence did not provide any new information relating to impacts and risks for the proposed activity.
- (3) On 9 January 2023, Woodside responded to MAC's feedback on the HMC proposal, agreeing to most proposed changes and seeking clarity on some administrative matters.
- On 19 January 2023 Woodside re-provided a copy of all heritage reports for the Scarborough project to MAC. This has not been provided in Sensitive Information as it contains information which MAC has not authorised Woodside to share with NOPSEMA.
- On 20 January 2023, Woodside emailed MAC advising of the proposed activity and provided a simplified Consultation Information Sheet (including a link to the detailed information sheet on Woodside's website) as well as a summary overview fact sheet. Woodside also outlined:
- In preparation for this work, Woodside has undertaken an assessment to identify potential impacts and risks to the marine environment arising from both planned and unplanned activities. Mitigation and management measures have been developed for each of the risks identified and will be outlined in the Environmental Plan (EP).
- Woodside is seeking to understand the nature of the interests that Murujuga Aboriginal Corporation (MAC) and its members may have in the 'Environment that May Be
 Affected' (EMBA) by this activity. The EMBA is the total area over which unplanned events could have environmental impacts, as set out in the Summary Information
 sheet that was attached.
- Woodside advised that it understands that it will be attending the MAC board meeting on 24 January 2023 to discuss this and information relating to a separate Woodside activity.
- Woodside advised it would be pleased to speak with MAC members in addition to the MAC Board / office holders.
 - On 25 January 2023, Woodside presented to the MAC Board on the status of the proposed activity. The meeting included the following topics relating to the proposed activity and the broader Scarborough Project:
 - EMBA map explained and left with MAC for information.
 - Plain English fact sheets provided (Appendix F, reference 1.107 and 1.108)
 - MAC reiterated role of Board v Circle of Elders in consultation processes.
 - Local content outcomes continue to be a priority for MAC and its members.
- Woodside was scheduled to meet with MAC on 16 February, but due to last minute unavailability of the MAC consultant, the meeting was postponed until 20 February 2023. While awaiting the postponed meeting, Woodside proceeded to meet with MAC's CEO to discuss the project including the proposed activity. No feedback was received.
- (2) On 20 February 2023, Woodside presented to the MAC CEO and consultant to discuss the project including the proposed activity. The meeting focused on scope and results of an ethnographic survey conducted in 2020, in context of the proposed activity and the broader Scarborough Project.
- On 24 February 2023, Woodside sent a follow up email on a range of Woodside EPs, including the proposed activity and following on from the 20 February 2023 meeting (Appendix F, reference 1.209). Woodside noted it is seeking MAC's feedback as soon as possible on the proposed activity.
- On 7 March 2023, Woodside spoke with MAC to follow up on the material provided and sought meetings with the Board and Circle of Elders if required.
- On 30 March 2023, Woodside spoke with MAC and followed up on the material provided.

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- On 3 April 2023, MAC emailed Woodside asking for a list of outstanding issues that Woodside would like to progress.
- On 5 April 2023, Woodside responded to MAC via email attaching a letter with a list of open topics, which included the request for feedback on the proposed activity.
 Woodside requested advice from MAC on:
 - How the activity could impact cultural values
 - If MAC proposes anything to be included in the EP prior to submission.
 - If MAC would like a meeting to discuss the activity
 - Whether MAC does not intend to provide advice prior to EP submission.
- On 12 April 2023, Woodside spoke with MAC regarding a number of topics including feedback on the proposed activity. MAC responded that their Board of Directors are meeting soon, and that Woodside can expect a forward plan on EP consultation.
- On 5 June 2023, MAC emailed Woodside to confirm the Board and Elders meeting date and noted they would send a quote for costs shortly.
- (1) On 22 June 2023, Woodside met with the MAC Board and Circle of Elders:
- Woodside described the Environment Plan framework, referring to the offshore Petroleum and Greenhouse Gas Storage Act (Environment) Regulations. NOPSEMA's role as regulator and general contents of Environment Plans.
- Woodside encouraged MAC to raise anything which they felt was missing in the information provided during the meeting.
- Woodside displayed a map of activities open for feedback to be discussed in the meeting and provided a list of other upcoming activities which will be open for consultation in 2023.
- Woodside provided an overview of the broader Scarborough Project.
- Woodside provided an overview of each proposed Scarborough activity (including Seismic Survey, Drilling and Completions, Seabed Intervention and Trunkline
 installation and Subsea infrastructure installation) and a summary of both planned and unplanned impacts and associated controls. This included the use of the video
 showing the general process of drilling and completions which was designed for public audience.
- MAC asked whether the installed infrastructure would be moved in a cyclone. Woodside confirmed that the infrastructure will be permanently moored in place.
- Woodside described planned and unplanned environmental risks and impacts in accordance with tables provided in the information sheets for the activity emphasising
 that unplanned risks are not expected to occur and are unlikely.
- The EMBA for each proposed Scarborough activity was displayed, and the individual worst-case loss of containment scenarios identified knowing that they are all diesel fuel releases which would only be caused by vessel collisions.
- On 18 July 2023, Woodside emailed MAC NOPSEMA's Consultation Guidelines, Consultation Brochure, and Draft Policy for Managing Gender-Restricted Information.
 This email also reiterated Woodside's request that MAC advise Woodside of any other Traditional Custodian groups or individuals with whom Woodside should consult.
- (6) On 21 July 2023, MAC emailed a letter to Woodside. The letter confirmed that MAC have no concerns at this time with regards to the Subsea EP. MAC confirmed their desire for ongoing engagement and appreciated Woodside's commitment to this.
- On 26 July 2023, Woodside emailed MAC Woodside's planned Program of Ongoing Engagement with Traditional Custodians.
- On 2 August 2023, Woodside emailed MAC regarding the acceptance of a separate Scarborough EP and asking for information in accordance with conditions of
 acceptance of that EP, specifically whether MAC is aware of any people, who in accordance with Indigenous tradition, may have spiritual or cultural connections to the
 environment that may be affected by the activity that have not yet been afforded the opportunity to provide information that may inform management of the activity.

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The email also contained links to information on NOPSEMA's publications on EP consultation and its purpose. It also made clear that any gender restricted, or culturally sensitive information would be managed carefully and appropriately. An offer of support to participate in consultation was made.

- On 9 August 2023, Woodside emailed MAC again seeking feedback and information relating to an accepted Scarborough EP with the same EMBA, stating the conditions of acceptance:
 - if you are aware of any people, who in accordance with Indigenous tradition, may have spiritual and cultural connections to the environment that may be affected by the activity that have not yet been afforded the opportunity to provide information that may inform the management of the activity; and
 - if there is any information you wish to provide on cultural features and/or heritage values
 - the email gave the planned commencement of activity under that EP and stated that if no feedback had been received by COB on the day prior, it would be taken to mean no information was desired to be given prior to commencement.
 - the email also described the purpose of consultation.
- On 21 August 2023, Woodside emailed MAC seeking MAC's cultural clarifications about information in relation to Songlines, Elder status and whether cultural information about Murujuga can be held by individuals and not known to others.
- On 1 September 2023, MAC emailed a letter to Woodside among other things noting the following:
- MAC consulted with the woman appointed to their Circle of Elders.
- MAC notes that it would be extremely unusual for knowledge to be held by an individual without surrounding groups knowing about it.
- The Circle of elders themselves represent the Ngarda-Ngarli; the collective term for the Traditional Custodians who look after Murujuga Country.
 - On 15 September 2023, Woodside emailed MAC advising of the planned start date for the activity, and once again requesting if MAC is aware of any other people with whom Woodside should consult, if there is any information MAC wish to provide on cultural features and/or heritage values. The email requested this information prior to 28 September 2023, but reiterated that Woodside will take feedback after the commencement of the activity as part of ongoing consultation. The Summary Information Sheet for this activity was attached. No response was received to this email.
 - On 4 October 2023, Woodside phoned MAC to discuss the cultural appropriateness of a proposed visit to Rosemary Island, requested by a self-identifying Traditional Custodian. Woodside was advised not to undertake the trip due to cultural safety concerns.
 - On 4 October 2023, MAC emailed Woodside thanking them for the call and informing Woodside that it is MAC's expectation that Woodside continues to request advice regarding cultural safety prior to such trips being undertaken.
 - On 4 October 2023, Woodside emailed MAC thanking them for their advice, confirming the trip had been cancelled and that Woodside would continue to seek MAC's advice on similar matters in future.

Summary of Feedback, Objection or Claim	Woodside Energy's Assessment of Merits of Feedback, Objection or Claim and its Response	Environment Plan Controls
(1) MAC have provided significant valuable input into the management of known and potential cultural and	(1) Woodside responded to MAC's request for further information during face-to-face engagement, and in writing, no further information was requested on these topics.	(1) Existing controls considered sufficient as described in Section 6. Woodside recognises that whales and other species of totemic importance need to be
heritage values in the broader	The EP assesses both direct and indirect impacts and risks	protected, including their populations and migration
Scarborough Project footprint.	associated with the proposed Petroleum Activities Program, having	patterns (Section 4.9). As assessed in Section 6,

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During face-to-face engagements related to this activity and others, MAC requested further information on topics related to this proposed activity which were responded to in correspondence and during the meetings:

This EP does not account for indirect impacts as a result of the broader Scarborough Project (e.g., potential impacts to Murujuga from onshore emissions associated with processing Scarborough gas).

- (2) Uncertainty over the results of further ethnographic surveys, as new heritage values identified may require further mitigations.
- (3) MAC's input has helped shape the structure and operation of the HMC described in 7.5 including their advice:
 - That recommendations of the HMC need not be unanimous,
 - That the HMC include MAC staff in addition to MAC Board, executive and Circle of Elders, and
 - c. That developments in regard to the World Heritage listing of the Murujuga Cultural Landscape does not trigger any meeting of the HMC.
- (4) Queried whether the installed infrastructure would be moved in a cyclone.

- regard to the nature and scale of the proposed Petroleum Activities Program. The extraction of Scarborough gas for onshore processing is not included in the Petroleum Activities Program for this EP. Therefore, indirect impacts and risks arising from the onshore processing of Scarborough gas are not considered indirect impacts/risks of this Petroleum Activities Program but will be evaluated in future Scarborough Eps as appropriate.
- (2) The completed ethnographic surveys, which align with industry practice, have not identified any heritage risks. Woodside remains committed to the further ethnographic surveys planned for the Scarborough project which go beyond industry standards and is ready to progress these at MAC's earliest availability. The results of these surveys will be addressed through the Heritage Management Committee.
- (3) Woodside has agreed to the matters advised by MAC regarding the HMC with regards to the requirement for unanimous recommendations, membership of the HMC and the appropriate triggers for HMC meetings.
- (4) Responded within the meeting.
- (5) Woodside continues to engage with MAC on the Scarborough project generally and has committed to ongoing consultation with MAC Board and Elders.
- (6) MAC is supportive of this EP submission.

Woodside engages in ongoing consultation throughout the life of an EP. Should feedback be received after the EP has been accepted (including any relevant new information on cultural values), it will be assessed and, where appropriate, Woodside will apply its Management of Change and Revision process (see **Section 7.8.1**).

- Woodside considers that when the impacts and risks to marine species, including potential totemic species, have been reduced to ALARP and an acceptable level in offshore areas, the potential impacts and risks to cultural values associated with coastal Indigenous connection with, or traditional uses of marine species and associated ecosystems in nearshore coastal waters are also reduced to ALARP and an acceptable level.
- (2) & (3) Woodside and MAC have established the Heritage Management Committee. Recommendations of the HMC will be implemented where they (independently or in conjunction with other actions) lower the risk of impacts to heritage to ALARP. New heritage information, where applicable to this proposed activity, will be addressed as part of ongoing consultation (Table 7-7). No additional measures or controls have been put in place in this EP (Refer to Scarborough Seabed Intervention and Trunkline Installation EP for controls relating to HMC).
- (4) & (5) Not required.
- (6) Woodside is implementing a program to actively support Traditional Custodians' capacity for ongoing engagement and consultation on environmental plans referenced as **PS 14.2.1** in this EP.

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- (5) MAC directed that consultation be undertaken with both the board and the Circle of Elders, which was implemented.
- (6) On 21 July 2023, MAC sent a letter to Woodside acknowledging the consultation on 22nd June and stating they had no concerns with this EP at this time.

Wirrawandi Aboriginal Corporation (WAC)

WAC is established under the Native Title Act 1993 by the Mardudhunera and Yaburara people to represent the Mardudhunera and Yaburara people (defined broadly by reference to descent from the set of ancestors who were known to have a continuous and unbroken connection as the Traditional Custodians at the time of European colonisation) and represent their communal interests including, among other things, management and protection of cultural values.

Woodside has discharged its obligations for consultation under Regulation 11A(1) and consultation with WAC for the purpose of 11A(1) is complete. Sufficient information and a reasonable period have been provided, as described in Section 5.5 of the EP. Specifically:

- Sufficient Information:
- Woodside Sought direction on WAC's preferred method of consultation. This resulted in two face-to-face meetings being coordinated at the location of WAC's choosing, with WAC nominated representatives. These meetings included Woodside presenting information in a format and style that was readily accessible and appropriate.
- Provided Consultation Information Sheets and Consultation Summary Sheets to WAC.
- Articulated planned and unplanned environmental risks and impacts, with proposed controls.
- Set out in detail what was being sought through consultation.
- Asked for the consultation and information sheets to be distributed to members and individuals.
- Woodside has provided NOPSEMA's Brochure "Consultation on offshore petroleum environment plans" and "Guideline: Consultation in the course of preparing an
 environment plan Provided response to questions asked about the activity through consultation. Through these questions, WAC have displayed an understanding of the
 activities under this Environment Plan as well as the broader Scarborough Project.
- Provided response to questions asked about the activity through consultation.
- Advised that WAC could request the particular information provided in the consultation not be published (to align with 11A(2)(4))

Reasonable Period:

- Woodside published advertisements in national, state, and relevant local newspapers including The Australian, The West Australian, Pilbara News (October 2022 and January 2023), Midwest Times, Northwest Telegraph and Geraldton Guardian (January 2023) advising of the proposed activities and requesting comments or feedback.
- Consultation information provided to WAC on 20 January 2023 based on their function, interest, and activities.
- Woodside has addressed and responded to WAC over 9 months, demonstrating a "reasonable period" of consultation.

Woodside asked WAC if it was aware of any other Traditional Custodian groups or individuals with whom Woodside should consult. None were identified.

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Woodside has provided a reasonable opportunity for input since January 2023 and a genuine two-way dialogue has occurred via meetings and written exchanges to further understand the environment in which the activity will take place. WAC has engaged with the detail of the activity asking related questions. The details of these engagements are described in the consultation summary below.

Woodside engages in ongoing consultation, beyond that required by Regulation 11A, throughout the life of an EP. Should feedback be received after the EP has been accepted (including any relevant new information on cultural values), it will be assessed and, where appropriate, Woodside will apply its Management of Change and Revision process (see Section 7.8.1 of the EP).

Woodside considers the measures and controls described in this EP address the potential impact from the proposed activity on WAC's functions, interests or activities.

Summary of information provided and record of consultation:

Historical Relationship

- On 1 May 2019, cultural authorities nominated by WAC attended an ethnographic survey in conjunction with other Ngarda Ngarli People (the traditional custodians of Murujuga, comprising the Ngarluma, Mardudhunera, Wong-Goo-Tt-Oo, Yaburara and Yindjibarndi people) and both male and female heritage consultants consistent with industry standard practice:
- While this survey was conducted nominally for the Scarborough project's development footprint, a landscape-scale approach was undertaken particularly given the limited knowledge of the submerged landscape. This survey found no ethnographic values within the Operational Area or EMBA.
- Participants contributed to the findings and recommendations of Mott 2019 which included:
- Onshore heritage sites were identified, beyond the Operational Area and EMBA of this EP.
- No known sites or values were identified beyond the low water mark, but the potential for cultural values to exist was identified as requiring further research.
- Recommendation to keep Traditional Custodians informed including through existing quarterly meetings (see below).
- Recommendation to engage with researchers on options to identify submerged heritage.
- Recommendation for cultural awareness training for contractors.
- Recommendations for the management of onshore heritage sites beyond the Operational Area and EMBA of this EP.
 - Following the recommendations of Mott 2019, Woodside conducted further work to identify submerged heritage values (refer to Section 4.9.1), kept WAC informed of the progress of the Scarborough project through quarterly meetings (see below), and where appropriate ensured employees and contractors had completed cultural awareness training through MAC.
 - Woodside also took steps in consultation with WAC to appropriately manage onshore heritage sites beyond the Operational Area and EMBA of this EP.

Ensuring Sufficient Information and Reasonable Period

- On 23 September 2022, Woodside emailed WAC advising of the proposed activity (Appendix F, reference 1.55) and provided a Consultation Information Sheet and Consultation FAQ.
- On 12 October 2022, Woodside sent a follow-up email (Appendix F, reference 1.62).
- On 20 January 2023, Woodside emailed WAC advising of the proposed activity (Appendix F, reference 1.115) and provided a simplified Consultation Information Sheet (including a link to the detailed information sheet on Woodside's website) as well as a summary overview fact sheet. The email requested information on the interests

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that WAC and its members may have within the EMBA, information on how WAC would like to engage, and requested that WAC provide information to members as required.

- On 27 January 2023 Woodside placed a phone call and emailed WAC to follow up on the information provided and information sought:
- Woodside noted the upcoming opportunity to meet with WAC on 21 February while it was in Karratha and would send a proposed time to meet to discuss the information.
 Woodside has provided on a number of Woodside activities and EMBAs including this proposed activity.
- Woodside requested it would like to gain an understanding on the best way to progress if the WAC Board wish to have further discussions in relation to this information and also on how they prefer Woodside to engage for any future information shares.
- On 21 February 2023, WAC and agreed by phone to meet with the Woodside and a full meeting. of the Board and Elders on 23 March 2023 in Perth.
- On 24 February 2023, Woodside sent an email on a range of Woodside EPs, including the proposed activity following on from the 21 February 2023 meeting (Appendix F, reference 1.197). Woodside noted it is seeking WAC's feedback as soon as possible on the proposed activity.

Woodside also requested confirmation of the opportunity to meet with the WAC Board when they are next due to meet in Perth in March.

- On 24 February 2023, WAC emailed Woodside:
- WAC acknowledged receiving the EP information and the meeting with proposed for the Elders and Directors in March 2023, but that the meeting is still yet to be finalised.
- Further details and associated costs will be discussed once the meeting has been confirmed, in discussion with Woodside.
- On 7 March 2023, WAC emailed Woodside to advise a draft agenda had been set and Woodside had been allotted Thursday 23 March 2023 for presentation.
- On 7 March 2023, Woodside emailed WAC welcoming the opportunity and advised it was looking forward to receiving further information in relation to timing and location.
- On 8 March 2023, Woodside phoned WAC and agreed to proceed with the meeting.
- On 9 March 2023, Robe River Kuruma Aboriginal Corporation (RRKAC) emailed Woodside (and copied in CEO of WAC) advising that it has discussed the proposed
 activity with the Robe River Kuruma Heritage Advisory Committee and they have recommended that the interests of Robe River Kuruma people are best served
 through the joint Heritage Advisory Committee that is required under Yaburara Mardudhunera and Kuruma Marthudunera Indigenous Land Use Agreement. RRKAC
 also suggested that WAC is required to facilitate this Committee and noted there is an emerging need to deal with other proponent matters, so there is an opportunity
 to link the engagement from a meeting efficiency perspective. Since the separate meeting with WAC had already been arranged, Woodside decided to proceed with
 both meetings.
- On 15 March 2023, Woodside emailed WAC to follow up on details relating to the meeting of the WAC Board and Elders on 23 March 2023 in Perth.
- On 15 March 2023, WAC emailed Woodside:
- WAC advised that the 23 March 2023 meeting has been scheduled and arranged.
- WAC advised that as discussed previously the intention is to present to WAC Directors and Elders on information requires WAC feedback.
 - On 16 March 2023, WAC emailed Woodside confirming room booking for meeting and requested confirmation of attendees.
 - On 17 March 2023, Woodside emailed WAC advising there would be relevant representation at the meeting to provide EP information as requested and that the broader community activity for awareness would be covered.

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- On 17 March 2023, Woodside emailed WAC to advise 7 representatives from Woodside would be attending the meeting.
- (1 & 2) On 23 March 2023, Woodside presented to a meeting of the WAC Board and Elders in Perth, Woodside:
- Described the Environment Plan framework, referring to the Offshore Petroleum and Greenhouse Gas Storage Act (Environment) Regulations, NOPSEMA's role as regulator and general contents of Environment Plans.
- Displayed a map of activities open for feedback to be discussed in the meeting and provided a list of other upcoming activities which will be open for consultation in 2023.
- Provided an overview of the broader Scarborough Project and overview of activities.
 - Woodside provided an overview of each proposed Scarborough activity (including Seismic Survey, Drilling and Completions, Seabed Intervention and Trunkline Installation and Subsea Infrastructure Installation) and a summary of both planned and unplanned impacts and associated controls.
- Described the subsea infrastructure installation proposed activities, including describing the equipment to be installed and gravimetry platform installation.
- Described the types of vessels involved.
- Described planned and unplanned environmental risks and impacts in accordance with tables provided in the Information Sheets for the activities, emphasising that unplanned risks are not expected to occur and are unlikely.
- Displayed and spoke to the EMBA for each proposed Scarborough activity, and the individual worst-case loss of containment scenarios identified, noting that they are all diesel fuel releases which would only be caused by vessel collisions.
- Stated that Woodside wanted to understand how the functions, activities or interests of WAC and the people it represents may be impacted by any of those activities.
 - Specifically asked the following:
- How could these activities impact your cultural values, interests and activities does protecting the environment do enough to protect your cultural values?
- What are your concerns about the proposed activities and what do you think we should do about them?
- Is there anything you would like included in the EPs before submission?
- Is there anyone else Woodside should consult with about the activities?
 - Advised that Woodside will continue to take feedback from WAC for the life of the EP.
- Provided personal contact details for further feedback. Woodside provided NOPSEMA contact details, should WAC desire to provide feedback directly to the regulator.
- At the 23 March meeting:

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- (1) WAC asked what kinds of incidents could occur during the proposed activity, Woodside responded that major incidents could be a diesel spill.
- (1) WAC asked whether any gravimetry structures will be lost or buried over field life, Woodside responded that this is possible but not planned to happen. The location
 of each is precisely known from installation and surveys.
- (1) WAC asked how the EMBA influences consultation, Woodside responded that the EMBA has always been understood but it is now being used to identify people who may have an interest in the activity.
- (1) WAC asked whether activities cease during whale migration, Woodside responded they don't stop but use controls like pausing if there is whale activity within the area.
- (1) WAC asked about potential noise impact on whale communication. Woodside responded that controls have been put in place to try to avoid it. WAC asked whether a diesel spill would only be on the surface, Woodside responded that there will be a slick, but the diesel would go into the water column.
- (1) WAC asked how long diesel stays in the environment, Woodside responded that the majority disappear within two days.
- (1) WAC asked how quickly the response to a spill is, Woodside responded that they would already be on location.
- (1) WAC asked whether the turtle monitoring program is still in place, Woodside responded that it is.
- Woodside noted this concluded the Scarborough section of the meeting and called for any further questions or feedback and called for any further questions or feedback.
 None were received.
- WAC stated that this kind of information sharing is important, and that Woodside's time is appreciated. WAC asked whether this type of information is broadly available
 to the community, Woodside responded that there are a number of open community sessions available in the region where it could be discussed [referring to ongoing
 quarterly heritage update meetings that WAC are invited to.
- WAC indicated that since they are engaging with a number of energy industry operators, they will consider the information provided and discuss internally before any further response.
- Woodside provided contact details for further feedback.
- Woodside provided NOPSEMA contact details, should WAC desire to provide feedback directly to the regulator.
- On 3 May 2023, Woodside emailed a letter to WAC regarding the meeting with the joint Robe River Kuruma and Wirrawandi Joint Heritage Advisory Committee (HAC) on 31 March (see 31 March 2023 meeting summary in Robe River Kuruma relevant person table entry):
- Woodside thanked the HAC for the meeting, their careful consideration of the matters and feedback provided.
- Woodside acknowledged that the RRKAC have interests in the EMBA and noted that we want to ensure impacts are as minimal as reasonably practicable.
- A high-level overview of presented topics was provided.
- Woodside provided responses to questions noted from the meeting, none of which were related to the proposed activity.
- Woodside notified that the feedback and the letter will be included in Environment Plans that will be submitted to NOPSEMA.
 - On 3 May 2023, Woodside emailed a letter to WAC regarding the meeting with WAC Directors and Elders on 23 March:
- Woodside thanked WAC for the meeting and their careful consideration of the matters.
- Woodside acknowledged that WAC has interests in the EMBA and noted that we want to ensure impacts are as minimal as reasonably practicable.
- A high-level overview of presented topics was provided.
- Woodside provided responses to questions noted from the meeting, none of which were related to the proposed activity.

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- Woodside notified that the feedback and the letter will be included in Environment Plans that will be submitted to NOPSEMA.
 - On 18 July 2023, Woodside emailed WAC NOPSEMA's Consultation Guidelines, Consultation Brochure, and Draft Policy for Managing Gender-Restricted Information.
 This email also reiterated Woodside's request that WAC advise Woodside of any other Traditional Custodian groups or individuals with whom Woodside should consult.
 - On 26 July 2023, Woodside emailed WAC Woodside's planned Program of Ongoing Engagement with Traditional Custodians.
- On 2 August 2023, Woodside emailed WAC regarding the acceptance of a different Scarborough EP and asking for information in accordance with conditions of acceptance of that EP, specifically whether WAC is aware of any people, who in accordance with Indigenous tradition, may have spiritual or cultural connections to the environment that may be affected by the activity that have not yet been afforded the opportunity to provide information.. The email also contained links to information on NOPSEMA's publications on EP consultation and its purpose. It also made clear that any gender restricted, or culturally sensitive information would be managed carefully and appropriately. An offer of support to participate in consultation was made.
- On 3 August 2023, WAC emailed Woodside requesting a map of relevant Commonwealth and State EMBAS.
- On 9 August 2023, Woodside emailed WAC again seeking feedback and information relating to a separate Scarborough EP that had been accepted, stating the conditions of acceptance of that EP:
- if they were aware of any people, who in accordance with Indigenous tradition, may have spiritual and cultural connections to the environment that may be affected by the activity that have not yet been afforded the opportunity to provide information that may inform the management of the activity; and
- if there was any information they wished to provide on cultural features and/or heritage values
- the email gave the planned commencement of activity under that EP and stated that if no feedback had been received by COB on the day prior, it would be taken to mean no information was desired to be given prior to commencement. The email described the purpose of consultation.
- On 10 August 2023, Woodside emailed WAC providing a list (as requested by WAC) of current and pending EP's.
- On 10 August 2023, WAC emailed Woodside with thanks for the information and with a general query about EMBA's.
- On 10 August 2023, WAC emailed Woodside stating that it did not have any objections to activities under the Scarborough EP which had been accepted, based on understanding that it does not involve seabed disturbance, the EMBA is outside the general area that Yaburara and Mardudhunera people have interests and typically undertake activities WAC also noted they would provide a formal written response to the 19 July 2023 meeting in relation to proposed ongoing consultation and to activities and Eps for which WAC may be considered relevant persons.
- On 15 August 2023, Woodside emailed WAC providing an explanation of the query in relation to EMBA's and EMBA development.
- On 15 August 2023, WAC emailed Woodside with thanks for the clarification and noting they would provide a formal response shortly.
- (3) On 31 August 2023, WAC emailed a letter to Woodside proposing a framework agreement to provide a streamlined, formalised approach to consultation between WAC and Woodside.
- (3) On 11 September 2023, WAC emailed Woodside with a copy of the letter of 31 August, and advising that WAC does not object to Woodside progressing environment plans for the activities outlined on the proviso that Woodside and WAC enter into a framework agreement to provide for ongoing meaningful consultation with WAC and YM members in relation to activities the subject of EPs, as outlined in the attached letter on terms suitable to both parties within a reasonable period (nominally within the next 2-3 months).
- On 12 September 2023, Woodside emailed WAC confirming receipt of the email of 11 September.

• On 18 September 2023, Woodside emailed WAC acknowledging the previous email, advising of the planned start date for the activity, and once again requesting if WAC is aware of any other people with whom Woodside should consult, and if there is any information WAC wish to provide on cultural values. The email requested that information be distributed to members or individuals who may be interested. The email requested information to be provided by 2 October 2023. The Summary Information Sheet for this activity was attached (Appendix F, reference 1.107). No response was received to this email.

Quarterly Heritage Meetings:

- Woodside convenes a quarterly meeting of Traditional Custodian representatives from the Representative Aboriginal Corporations involved in historical native title claims
 over the Burrup Peninsula, including WAC. Individual attendees are nominated by their representative Aboriginal Corporations. These meetings are summarised
 separately in this table.
- Copies of slides are made available to representative Aboriginal Corporations for the general awareness of members who were not able to attend individual meetings.

Summary of Feedback, Objection or Claim	Woodside Energy's Assessment of Merits of Feedback, Objection or Claim and its Response	Environment Plan Controls
 (1) During face-to-face engagements related to this activity and others, the WAC requested further information on topics related to this proposed activity which was responded to during the meeting: Emergency preparedness The relevance of the EMBA to consultation. Potential for gravimetry structures to be lost during field life. Whether activities stop during whale migration. Potential impact of noise on whale communication. Whether a diesel spill would only be on the surface. How long diesel stays in the environment. What happens if something is dropped into the ocean. 	 Woodside responded to WAC's requests for further information during face-to-face engagements, and no further information was requested on these topics. Woodside assessed WAC's interest in whales and turtles to represent potential cultural values. Separate from consultation under Reg 11A, Woodside will establish a framework agreement with WAC. The agreement would be used to frame ongoing consultation. Sufficient information to allow informed assessment has already been provided by other means, including summary sheets developed by Indigenous staff, a face-to-face meeting with appropriate material (pictures, maps, video) and project attendance allowing opportunity to ask questions and seek further understanding. Woodside engages in ongoing consultation throughout the life of an EP. Should feedback be received after the EP has been accepted (including any relevant new information on cultural values), it will be assessed and, where appropriate, Woodside will apply its Management of Change and Revision process (see Section 7.8.1). 	 Existing controls considered sufficient, as described in Section 6. Woodside updated Section 4.9 to record WAC's interests and potential cultural values, including whales and turtles and assessed potential impact on these, including controls, in Section 6.10. Woodside is implementing a program to actively support Traditional Custodians' capacity for ongoing engagement and consultation on environment plans referenced as PS 14.2.1 in thi EP. This includes continued engagement regarding WAC's proposed Framework Agreeme which will be applied to ongoing consultation. This described further in the Program of Ongoing Engagement with Traditional Custodians, Appendix J.

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- How soon is a spill responded to.
- Whether the turtle monitoring program is still in place.
- How the EMBA influences consultation.
- (2) WAC expressed a general interest in whales an turtles. Woodside discussed controls protecting whales from an ecological perspective during meetings in which they were raised, no further feedback or comment was received on these topics.
- (3) WAC expressed that it does not object to Woodside progressing Scarborough Project EPs (including this activity) on the proviso that Woodside and WAC enter into a framework agreement to provide for ongoing meaningful consultation a desire for ongoing engagement and partnership through a Framework Agreement.

Yinggarda Aboriginal Corporation (YAC)

YAC is established under the Native Title Act 1993 by the Yinggarda people to represent the Yinggarda people (defined broadly by reference to descent from the set of ancestors who were known to have a continuous and unbroken connection as the Traditional Custodians at the time of European colonisation) and represent their communal interests including, among other things, management and protection of cultural values.

Woodside has discharged its obligations for consultation under Regulation 11A(1) and consultation with YAC for the purpose of 11A(1) is complete. Sufficient information and a reasonable period have been provided, as described in Section 5.5 of the EP. Specifically:

Sufficient Information:

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- Woodside Sought direction on YAC's preferred method of consultation. This resulted in face-to-face meetings being coordinated at the location of YAC's choosing, with YAC nominated representatives. These meetings included Woodside presenting information in a format and style that was readily accessible and appropriate.
- Provided Consultation Information Sheets and Consultation Summary Sheets developed by Indigenous staff to YAC. These set out details of the proposed activity, the location of the activity, the timing of the activity as well as the potential risks and impacts of the activity with controls in a digestible, plain English format.
- Articulated planned and unplanned environmental risks and impacts, with proposed controls.
- Set out in detail what was being sought through consultation.
- Asked for the consultation and information sheets to be distributed to members and individuals.

Woodside has provided NOPSEMA's Brochure "Consultation on offshore petroleum environment plans" and "Guideline: Consultation in the course of preparing an environment plan Provided response to questions asked about the activity through consultation. Through these questions, YAC have displayed an understanding of the activities under this Environment Plan as well as the broader Scarborough Project.

- Provided response to questions asked about the activity through consultation.
- Advised that YAC could request the particular information provided in the consultation not be published (to align with 11A(2)(4))
- Reasonable Period:
 - Woodside published advertisements in national, state, and relevant local newspapers including The Australian, The West Australian, Pilbara News (October 2022 and January 2023), Midwest Times, Northwest Telegraph and Geraldton Guardian (January 2023) advising of the proposed activities and requesting comments or feedback.
- Consultation information provided to YAC on 20 January 2023 based on their function, interest, and activities.
- Woodside has addressed and responded to YAC over 7 months, demonstrating a "reasonable period" of consultation.

Woodside asked YAC if it was aware of any other Traditional Custodian groups or individuals with whom Woodside should consult. None were identified.

Woodside has provided a reasonable opportunity for input since February 2023 and a genuine two-way dialogue has occurred via meetings and written exchanges to further understand the environment in which the activity will take place. YAC has engaged with the detail of the activity asking related questions. The details of these engagements are described in the consultation summary below.

Woodside engages in ongoing consultation, beyond that required by Regulation 11A, throughout the life of an EP. Should feedback be received after the EP has been accepted (including any relevant new information on cultural values), it will be assessed and, where appropriate, Woodside will apply its Management of Change and Revision process (see Section 7.8.1 of the EP).

Woodside considers the measures and controls described in this EP address the potential impact from the proposed activity on YAC's functions, interests or activities.

Summary of information provided and record of consultation:

YMAC is the Native Title Representative Body (NTRB) for the Yamatji and Pilbara region which includes YAC. NTRBs exist to provide assistance to native title claimants and holders in regard to their native title rights. No native title has been recognised over the Project Area, however YMAC is identified in the North West Marine Parks Network Management Plan as the contact for identifying cultural values in nearby Australian Marine Parks.

- On 7 July 2022, Woodside met with YMAC to request advice on the appropriate cultural authorities for the Scarborough project area, including but not limited to the scope of this EP and nearby marine parks.
- Woodside described the Scarborough Project and its footprint and gave an overview of indigenous parties consulted.

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- Woodside noted that YMAC was identified in the North-West Marine Parks Network Management Plan as the contact for identifying cultural values in nearby Australian Marine Parks. Woodside sought to understand if the cultural values of the nearby Gascoyne Marine Park may extend into the offshore Scarborough project areas.
- Woodside requested advice on how best (in addition to work completed) to identify any cultural values in the Marine Parks and in the broader project footprint.
- YMAC requested Woodside provide the relevant detailed information relating to the location and extent of the project.
- YMAC directed Woodside that consultation related to Scarborough Project would be best directed to Murujuga Aboriginal Corporation and Ngarluma Aboriginal Corporation
- YMAC did not direct Woodside to engage with YAC, however YAC was identified as a relevant person under methodology outlined in Section 5 and YMAC is listed as YAC's preferred contact on the ORIC website and is therefore Woodside's primary contact when engaging YAC.
 - On 19 July 2022, YMAC responded to Woodside and stated the area Woodside had identified requires correspondence directed to Murujuga Aboriginal Corporation
 (MAC) and Ngarluma Aboriginal Corporation (NAC). No reference was made at that stage about consulting with YAC. YAC was identified through Woodside's own
 methodology.
 - On 10 January 2023 Woodside emailed YAC/YMAC requesting to consult with YAC about work being planned for the Scarborough project, including a link to the NOPSEMA guidelines and advising that Woodside would be sending further information on the project.
 - On 20 January 2023, Woodside emailed YAC via the representative body Yamatji Marlpa Aboriginal Corporation (YMAC) advising of the proposed activity (Appendix F, reference 1.116) and provided a simplified Consultation Information Sheet (including a link to the detailed information sheet on Woodside's website) as well as a summary overview fact sheet. The email requested information on the interests that YAC and its members may have within the EMBA, information on how YAC would like to be consulted and to engage and requested that YAC provide information to members as required.
 - On 22 January 2023, YAC/YMAC emailed Woodside to advise it would contact Woodside once the consultation material had been reviewed.
 - On 6 February 2023, Woodside called YAC/YMAC to follow up. YAC/YMAC said they would send an email that day inviting Woodside to meet with the group.
 - On 22 February 2023, Woodside sent a follow up email on a range of Woodside EPs, including the proposed activity (Appendix F, reference 1.165) and information sought. Woodside noted it is seeking YAC's feedback as soon as possible on the proposed activity. Woodside stated that it would be grateful to meet with YAC at the earliest convenience at location of YAC's preference, providing budget and resources.
 - On 24 February 2023, Woodside followed up with YAC/YMAC via phone call. YAC/YMAC advised it will send an email on 24 February to discuss an invitation for Woodside to meet with YAC Board.
 - On 17 March 2023, Woodside met with YAC's legal representatives to discuss consultation on the Scarborough Project, preferred method and locality of
 consultation meetings, and to note that they will assist groups with funding to hold meetings on an agreed basis.
 - On 20 March 2023, Woodside emailed YMAC to follow up the discussed invitation for a face-to-face meeting with its Board of Directors and offering a phone discussion if YAC had any questions on the activities in the meantime.
 - On 23 March 2023, YMAC responded and proposed a meeting on 3 May 2023 in Carnarvon or online and provided an estimated of its proposed costs. The invitation was accepted, and arrangements made for a pre-meeting with YMAC to coordinate details.
 - On 23 March 2023, Woodside emailed YAC via YMAC to confirm a preference for face-to-face meeting and request a budget proposal.
 - On 24 March 2023, the YMAC lawyer emailed to arrange a pre-meet conversation on 31 April 2023.
 - On 24 March 2023, Woodside emailed to confirm the pre-meet conversation.

- On 27 March 2023 the YMAC lawyer emailed Woodside to confirm meeting details.
- On 30 March 2023, the YMAC lawyer emailed to cancel the pre-meet conversation.
- On 18 April 2023, Woodside emailed YMAC/YAC following up with information offered at the meeting of 13 March 2023; management of emissions, organisations that may provide independent expertise and re-iterating they would like to meet with YAC.
- On 27 April 2023, Woodside emailed the YMAC lawyer to confirm timing and location for the face-to-face meeting on 3 May, but the email bounced back requesting correspondence be forwarded to an alternate contact in YMAC.
- On 27 April 2023, Woodside forwarded the email seeking to confirm time and location for the planned meeting to the alternate contact in YMAC.
- On 27 April 2023, YMAC confirmed by email and phone call that they no longer represent Yinggara Aboriginal Corporation and that the meeting on 3 May had been
 cancelled. They informed Woodside that Gumala Aboriginal Corporation is now representing YAC and YMAC is in the process of hand over, including correspondence
 with Woodside.
- On 27 April 2023, Woodside acknowledged YMAC email re Gumala Aboriginal Corporation transition to new service provider.
- On 28 April 2023, Woodside attempted to call Gumula Aboriginal Corporation and left a voicemail to establish connection, no response was received.
- On 28 April, Woodside emailed Gumula Aboriginal Corporation to establish contact and inform them of the prior context. Woodside stated that it is still interested in meeting with the YAC board if they are interested, no response was received.
- On 8 May, Woodside phoned Gumula Aboriginal Corporation to follow up the email, explaining that it was seeking to consult Yinggarda on the proposed activity and noted that a planned meeting had been cancelled. Gumula Aboriginal Corporation indicated that the email address previously contacted was correct and indicated that it would call back. No return call was received.
- On 1 June 2023, Woodside emailed and phoned Gumala Aboriginal Corporation to speak with someone about consulting YAC on EPs. Reception said they would have a member of the governance team call back.
- On 15 June 2023, Gumula Aboriginal Corporation emailed woodside proposing attendance at a YAC Board meeting on 6 July for one hour to discuss EPs.
- On 19 June 2023, Woodside emailed Gumala Aboriginal Corporation accepting the invitation to attend the Board meeting, requesting a half day meeting with the board to allow YAC to ask questions and have time to consider information.
- On 21 June 2023, Gumala Aboriginal Corporation emailed Woodside inviting attendance at a half day Board meeting to discuss other EP matters.
- On 21 June 2023, Woodside emailed Gumala Aboriginal Corporation accepting the invite to attend the Board meeting of 5 July 2023 for a half day.
- (1) On 5 July 2023, Woodside presented to the YAC about several EPs including this EP. At the meeting Woodside:

- Described the Environment Plan framework, referring to the Offshore Petroleum and Greenhouse Gas Storage Act (Environment) Regulations, NOPSEMA's role as regulator and general contents of Environment Plans.
- Displayed a map of activities open for feedback to be discussed in the meeting and provided a list of other upcoming activities which will be open for consultation in 2023.
- Provided an overview of the broader Scarborough Project and overview of activities.
- Woodside provided an overview of each proposed Scarborough activity (including Seismic Survey, Drilling and Completions, Seabed Intervention and Trunkline Installation and Subsea Infrastructure Installation) and a summary of both planned and unplanned impacts and associated controls.
- Described the proposed activity, noting trunkline location, size, depth and length. A video was used to describe the pipelay.
- Described the types of vessels involved.
- Described planned and unplanned environmental risks and impacts in accordance with tables provided in the Information Sheets for the activities, emphasising that unplanned risks are not expected to occur and are unlikely.
- Displayed and spoke to the EMBA for each proposed Scarborough activity, and the individual worst-case loss of containment scenarios identified, noting that they are all diesel fuel releases which would only be caused by vessel collisions.
- Stated that Woodside wanted to understand how the functions, activities or interests of YAC and the people it represents may be impacted by any of those activities.
- Specifically asked the following:
 - How could these activities impact your cultural values, interests and activities does protecting the environment do enough to protect your cultural values?
 - What are your concerns about the proposed activities and what do you think we should do about them?
 - o Is there anything you would like included in the EPs before submission?
 - o Is there anyone else Woodside should consult with about the activities?
- Advised that Woodside will continue to take feedback from YAC for the life of the EP.
- Provided personal contact details for further feedback. Woodside provided NOPSEMA contact details, should YAC desire to provide feedback directly to the regulator.
 - (1) At the 5 July meeting YAC made particular mention of the following:
 - o (1) YAC expressed sadness at the potential for environmental impact.
 - Response: Woodside explained that the potential impact from the unplanned activities is very low. For example, Woodside has been operating in the region for over 30 years and has not had a serious unplanned environmental event in that time. Importantly, if there is an unplanned event, the entire EMBA as shown on the maps will not be impacted. The area of the EMBA will be somewhere within the mapped area depending on factors such as wind, current and tide.
 - o (1) YAC stated plants, animals and the environment are inexorably linked to their culture and asked: whether Woodside has undertaken environmental studies and whether these studies were ongoing; and what environmental monitoring happens after the EPs are approved.
 - Response: Woodside has undertaken numerous environmental studies that form part of the EPs and has an ongoing commitment to environmental studies and research, some of which are set out on Woodside's website.
 - Environmental monitoring is an ongoing activity, and the nature and timing of environmental monitoring depends on the nature, possible consequences, and likelihood of the environmental risks. Importantly, Woodside commits to ongoing consultation with YAC and will be able to take feedback if any new information in relation to risks comes to light.

- (1) YAC suggested that ranger programs could assist with environmental management and monitoring, and that YAC would likely write to Woodside about this suggestion and generally to discuss how YAC can be involved with / benefit from Woodside's activities.
- Response: Woodside looks forward to discussing these opportunities with YAC further as part of our ongoing engagement. Woodside commits to
 ongoing consultation about the EPs and to building the relationship with YAC.
- (2) YAC expressed concern about potential impacts to potential impact patterns of whales, and potential collisions. Woodside responded by explaining controls which would be in place to minimise impacts and risks to whales, and no further information was requested.
- (2) YAC expressed that seagrass, mullet and Dugong in Shark Bay are important resources. Woodside explained that the only potential impact to Shark Bay is via a highly unlikely hydrocarbon spill and the controls in place.
- On 17 July, Woodside emailed YAC a letter summarising the 5 July meeting.
- On 19 July 2023, Woodside emailed YAC NOPSEMA's Consultation Guidelines, Consultation Brochure, and Draft Policy for Managing Gender-Restricted Information. This email also reiterated Woodside's request that YAC advise Woodside of any other Traditional Custodian groups or individuals with whom Woodside should consult.
- On 19 July 2023, YAC emailed Woodside acknowledging receipt of Woodside's email of 19 July.
- On 26 July 2023, Woodside emailed YAC Woodside's planned Program of Ongoing Engagement with Traditional Custodians.
- On 2 August 2023, an alternate contact for YAC emailed Woodside to indicate that they had been placed on retainer by YAC to advise on NOPSEMA matters.
- On 3 August 2023, Woodside emailed YAC regarding the acceptance of a different Scarborough EP and asking for information in accordance with conditions of acceptance of that EP, specifically whether YAC is aware of any people, who in accordance with Indigenous tradition, may have spiritual or cultural connections to the environment that may be affected by the activity that have not yet been afforded the opportunity to provide information. The email also contained links to information on NOPSEMA's publications on EP consultation and its purpose. It also made clear that any gender restricted, or culturally sensitive information would be managed carefully and appropriately. An offer of support to participate in consultation was made.
- On 4 August, YAC emailed Woodside noting that:
- YAC was willing to formally engage with Woodside on future NOPSEMA consultation.
- Woodside was invited to submit a consultation agreement for YAC's consideration and laying out desired content.
- Resourcing was required by Woodside to facilitate this consultation.
 - On 9 August 2023, Woodside emailed YAC again seeking feedback and information relating to the accepted Scarborough EP, stating the conditions of acceptance of that EP:
- if YAC was aware of any people, who in accordance with Indigenous tradition, may have spiritual and cultural connections to the environment that may be affected by
 the activity that have not yet been afforded the opportunity to provide information that may inform the management of the activity; and
- if there was any information YAC wished to provide on cultural features and/or heritage values.
- the email noted the planned commencement of activity under that EP and stated that if no feedback had been received by COB on the day prior, it would be taken to mean no information was desired to be given prior to commencement. The email described the purpose of consultation.
 - (3) On 10 August 2023, YAC emailed Woodside, noting that:

- Woodside had provided a considerable volume of videos, complex materials and presentations to the YAC board since 1 July 2023, covering multiple proposed activities.
 The YAC board is seeking advice about different documents and considering cultural and spiritual impacts of proposed activities.
- The YAC board has not yet concluded its investigations and provide feedback, and if Woodside has advanced plans with NOPSEMA it has different view of the role and capacity of TOs in the process as clarified by Santos v Tipakalippa.
- Requesting appropriate resources and time for YAC board to allow them to form a considered view, as requested on 4 August 2023.
- Inviting Woodside to submit a proposed consultation agreement
- YAC board intends to raise matters at a community meeting in Carnarvon in September 2023, including Aboriginal community members who are not YAC members.
 - On 11 August 2023, YAC emailed Woodside confirming formal resolution by the Board to retain their lawyer (Banks-Smith & Assoc (BSA)) to engage on NOPSEMA
 matters and providing a copy of the Board Resolution.
 - (3) On 11 August 2023, Woodside emailed YAC via their lawyer acknowledging the request for a draft consultation agreement, noting it would be attended to within a week or so and confirming the process for onboarding to receive payments.
 - On 14 August 2023, YAC via their lawyer emailed Woodside stating that it looked forward to receiving the consultation agreement for consideration and agreeing arrangements for provision of resourcing.
 - On 27 August 2023, Woodside emailed YAC regarding a separate EP which had been accepted with conditions, stating requests in a manner similar to the email on 9 August, including whether they are aware of any people, who in accordance with Indigenous tradition, may have spiritual and cultural connections to the environment that may be affected by the activity that have not yet been afforded the opportunity to provide information that may inform the management of the activity.
 - On 13 September 2023, YAC via BSA responded to Woodside advising that in the absence of a draft consultation agreement they were unable to respond in substance to the matters raised.
 - On 14 September 2023, Woodside emailed YAC via BSA advising of the planned start date for the activity, and once again requesting if YAC was aware of any other people with whom Woodside should consult, and if there was any information YAC wish to provide on cultural values. The email requested that information be distributed to members or individuals who may be interested. It requested this information prior to 28 September 2023, but reiterated that Woodside would take feedback after the commencement of the activity as part of ongoing consultation. The Summary Information Sheet for this activity was attached (Appendix F, reference 1.107). No response was received to this email.
 - (3) On 14 September 2023, Woodside emailed YAC via BSA with a proposed consultation framework.
 - (3) On 14 September 2023, YAC via BSA confirmed receipt of the consultation framework and advised they would seek direction from the YAC board.

Summary of Feedback, Objection or Claim	Woodside Energy's Assessment of Merits of Feedback, Objection or Claim and its Response	Environment Plan Controls
(1) During face-to-face engagements related to this activity and others YAC requested further information on topics related to this proposed	(1) Woodside responded to YAC's requests for further information during face-to-face engagements, and no further information was requested on these topics.	(1) Existing controls considered sufficient, as described in Section 6 .

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activity which was responded to during the meeting:

- Whether Woodside has undertaken environmental studies and whether these studies are ongoing.
- YAC also expressed the following:
 - Sadness at the potential for environmental impact
 - Ranger programs could assist with environmental management and monitoring.
 - Expressed concern about potential impacts to potential impact patterns of whales, and potential collisions.
- (2) YAC expressed a general interest in whales, and generally plants, animals and the environment. . Woodside discussed controls protecting these aspects from an ecological perspective during meetings in which they were raised, no further feedback or comment was received on these topics.
- (3) YAC desires a consultation agreement with Woodside, and stated that they are unable to respond substantially without funding support. Woodside has provided a draft Consultation Framework Agreement which includes suggested timeframes to settle the agreement and

- (2) Woodside noted YAC's interest in whales, and seagrass, dugongs and mullet in Shark Bay. Environmental sensitivities that YAC noted as having particular interest within Shark Bay are not predicted to be impacted by the worst-case credible scenario, as shown in Figure 4-1
- (3) Separate from consultation under Reg 11A, Woodside will establish a framework agreement with YAC. The agreement would be used to frame ongoing consultation. Woodside does not consider YAC's request for a consultation agreement as a pre-requisite for consultation under regulation 11A. Sufficient information to allow informed assessment has already been provided by other means, including summary sheets developed by Indigenous staff, a face-to-face meeting with appropriate material (pictures, maps, video) and project attendance allowing opportunity to ask questions and seek further understanding. YAC has already provided information on their interests, which Woodside has noted (see 2). Woodside has also provided a reasonable period and opportunity for consultation (7 months).

Woodside engages in ongoing consultation throughout the life of an EP. Should feedback be received after the EP has been accepted (including any relevant new information on cultural values), it will be assessed and, where appropriate, Woodside will apply its Management of Change and Revision process (see Section 7.8.1).

- (2) Woodside updated Section 4.9 to record WAC's interests and potential cultural values and assessed potential impact on these, including controls, in Section 6.10.
- (3) Woodside is implementing a program to actively support Traditional Custodians' capacity for ongoing engagement and consultation on environment plans, referenced as PS 14.2.1 in this EP. This includes the proposed Framework Agreement which will be applied to ongoing consultation. This is described further in the Program of Ongoing Engagement with Traditional Custodians, Appendix J.

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timeframes for ongoing consultation with the Board.

Yindjibarndi Aboriginal Corporation

Yindjibarndi Aboriginal Corporation is established under the Native Title Act 1993 by the Yindjibanrdi people to represent the Yindjibanrdi people (defined broadly by reference to descent from the set of ancestors who were known to have a continuous and unbroken connection as the Traditional Custodians at the time of European colonisation) and represent their communal interests including, among other things, management and protection of cultural values.

Woodside has discharged its obligations for consultation under Regulation 11A(1) and consultation with Yindjibarndi for the purpose of 11A(1) is complete. Sufficient information and a reasonable period have been provided, as described in Section 5.5 of the EP. Specifically:

Sufficient Information:

- Provided Consultation Information Sheet and Consultation Summary Sheets to Yindjibarndi developed by Indigenous staff. These set out details of the proposed activity, the location of the activity, the timing of the activity as well as the potential risks and impacts of the activity with controls in a digestible, plain English format.
- Articulated planned and unplanned environmental risks and impacts, with proposed controls.
- Confirmed the purpose of consultation and set out in detail what was being sought through consultation.
- Suggested that information and request for feedback be distributed to members as required.

Reasonable Period:

- Woodside published advertisements in national, state, and relevant local newspapers including The Australian, The West Australian, Pilbara News (October 2022 and January 2023), Midwest Times, Northwest Telegraph and Geraldton Guardian (January 2023) advising of the proposed activities and requesting comments or feedback.
- Consultation information provided to Yindjibarndi on 20 January 2023 based on their function, interest, and activities.
- Woodside has addressed and responded to Yindjibarndi over 7 months, demonstrating a "reasonable period" of consultation.

Woodside asked Yindjibarndi if it was aware of any other Traditional Custodian groups or individuals with whom Woodside should consult. None were identified.

Woodside engages in ongoing consultation, beyond that required by Regulation 11A, throughout the life of an EP. Should feedback be received after the EP has been accepted (including any relevant new information on cultural values), it will be assessed and, where appropriate, Woodside will apply its Management of Change and Revision process (see Section 7.8.1 of the EP).

Woodside considers the measures and controls described in this EP address the potential impact from the proposed activity on Yindjibarndi functions, interests, or activities.

Woodside considers it has discharged its obligations for consultation under Regulation 11A(1). Sufficient time, information and opportunity has been provided as summarised below:

Summary of information provided and record of consultation:

• On 20 January 2023, Woodside emailed Yindjibarndi advising of the proposed activity (Appendix F, reference 1.117) and provided a simplified Consultation Information Sheet (including a link to the detailed information sheet on Woodside's website) as well as a summary overview fact sheet. The email requested information on the interests that Yindjibarndi and its members may have within the EMBA, information on how Yindjibarndi would like to engage, and requested that Yindjibarndi provide information to members as required.

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- On 24 February 2023, Woodside sent a follow up email on a range of Woodside EPs, including the proposed activity (Appendix F, reference 1.198) and information sought.
- (1 & 2) On 26 February 2023, Yindjibarndi emailed Woodside. Yindjibarndi advised that it will not be providing any comment on the proposed activity, or broader Scarborough Project noted it respected the traditional owners whose land and sea lies adjacent to, and within the precinct of, the projects, and will leave any comment and advice to be provided by them.
- On 28 February 2023, Woodside emailed Yindjibarndi to thank them and noted the response.
- On 7 July 2023, Woodside called Yindjibarndi who reiterated that it would prefer that comments come from coastal Aboriginal Corporations and not themselves.
- On 18 July 2023, Woodside emailed Yindjibarndi NOPSEMA's Consultation Guidelines, Consultation Brochure, and Draft Policy for Managing Gender-Restricted Information. This email also reiterated Woodside's request that Yindjibarndi advise Woodside of any other Traditional Custodian groups or individuals with whom Woodside should consult. No response was received to this email.
- On 26 July 2023, Woodside emailed Yindjibarndi Woodside's planned Program of Ongoing Engagement with Traditional Custodians.
- (3) On 1 August 2023, Yindjibarndi emailed Woodside in response to the Program of Ongoing Engagement from Woodside and asking that Oil and Gas matters relating to Yindjibarndi be directed to NYFL.

Summary of Feedback, Objection or Woodside Energy's Assessment of Merits of Feedback, Objection or **Environment Plan Controls** Claim Claim and its Response (1) Woodside accepts Yindjibarndi's response. (1) Yindjibarndi has provided a (1) Not required. response and advised that it will not (2) Not required. (2) Woodside agrees and respects Yinjibarndi's position that traditional be providing any comment on the (3) Future correspondence will be sent through NYFL. owners whose land and sea are adjacent to or within the precinct of proposed activity. the projects should be able to provide comment. (2) Yinjibarndi expressed that they Woodside has implemented a program to actively would prefer that traditional owner support Traditional Custodians' capacity for ongoing (3) Woodside will engage with NYFL on behalf of Yindjibarndi for ongoing groups with land and sea adjacent engagement and consultation on environment plans for consultation related to this activity, separate from consultation under to and within the precinct of the the purpose of avoiding impacts to cultural heritage Reg 11A. projects provide comment. values, referenced as PS 14.2.1 in this EP. (3) Yindjibarndi has instructed Woodside engages in ongoing consultation throughout the life of an EP. Woodside that it will be represented Should feedback be received after the EP has been accepted (including by NYFL in ongoing discussion any relevant new information on cultural values), it will be assessed and, where appropriate, Woodside will apply its Management of Change and about FP's Revision process (see Section 7.8.1).

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Buurabalayji Thalanyji Aboriginal Corporation (BTAC)

BTAC is established under the Native Title Act 1993 by the Thalanyji people to represent the Thalanyji people (defined broadly by reference to descent from the set of ancestors who were known to have a continuous and unbroken connection as the Traditional Custodians at the time of European colonisation) and represent their communal interests including, among other things, management and protection of cultural values.

Woodside has consulted under Regulation 11A with BTAC by providing sufficient information, a reasonable period of time and opportunity for BTAC to make an informed assessment of the possible consequences of the activities on functions, interests or activities. Woodside has addressed each objection or claim made by BTAC. Woodside has included cultural values and controls relevant to Woodside's understanding of BTAC's functions, interests and activities in its environment plan and in response to topics raised during consultation by BTAC.

As demonstrated in the summary below and consultation record that follows, consultation with BTAC complies with Regulation 11A and is complete.

Summary

Sufficient Information:

- Woodside sought direction on BTAC's preferred method of consultation. This has not yet resulted in a face-to-face meeting with the Board, however, BTAC has exchanged multiple correspondence on the activity and had telephone engagements with BTAC representatives have occurred. Woodside has offered to coordinate meetings at the location of BTAC's choosing, with BTAC nominated representatives. As sufficient information and a reasonable period have been provided (see below), any meetings would be considered as ongoing engagement post regulation 11A consultation..
- Provided Consultation Information Sheets and Consultation Summary Sheets developed by Indigenous staff to BTAC. These set out details of the proposed activity, the location of the activity, the timing of the activity as well as the potential risks and impacts of the activity with controls in a digestible, plain English format.
- Articulated planned and unplanned environmental risks and impacts, with proposed controls.
- Confirmed the purpose of consultation and set out in detail what was being sought through consultation.
- Asked for the consultation and information sheets to be distributed to members and interested individuals.
- Woodside has provided NOPSEMA's Brochure "Consultation on offshore petroleum environment plans" and Guideline "Guideline: Consultation in the course of preparing an environment plan".
- Provided response to questions asked about the activity through consultation. Through these questions, BTAC have displayed an understanding of the activities under this Environment Plan as well as the broader Scarborough Project.
- Advised that BTAC could request the particular information provided in the consultation not be published (to align with 11A(2)(4))

Reasonable Period:

- Woodside published advertisements in national, state, and relevant local newspapers including The Australian, The West Australian, Pilbara News (October 2022 and January 2023), Midwest Times, Northwest Telegraph and Geraldton Guardian (January 2023) advising of the proposed activities and requesting comments or feedback.
- Woodside has addressed and responded to BTAC over 9 months, demonstrating a "reasonable period" of consultation.

Woodside asked BTAC if it was aware of any other Traditional Custodian groups or individuals with whom Woodside should consult. None were identified.

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Woodside has provided a reasonable opportunity for input since January 2023 and a genuine two-way dialogue has occurred via meetings and written exchanges to further understand the environment in which the activity will take place. BTAC has engaged with the detail of the activity asking related questions. The details of these engagements are described in the consultation summary below.

Woodside engages in ongoing consultation, beyond that required by Regulation 11A, throughout the life of an EP. Should feedback be received after the EP has been accepted (including any relevant new information on cultural values), it will be assessed and, where appropriate, Woodside will apply its Management of Change and Revision process (see Section 7.8.1 of the EP).

Woodside considers the measures and controls described in this EP address the potential impact from the proposed activity on BTAC's functions, interests or activities.

Summary of information provided and record of consultation:

Historic Engagement

- Prior to sending out the Consultation Information Sheets, Woodside spoke to BTAC on 4 January 2023 to discuss the best way forward to consult with BTAC.
- On 10 January 2023, Woodside emailed BTAC stating it would be very grateful for the opportunity to meet with BTAC in the second half of February as discussed, or sooner if possible. Woodside also offered to cover the reasonable costs of consultations. Specifically, in relation to this EP, Woodside stated they would like to discuss:
 - o BTAC's expectations for consultation how can Woodside and BTAC best work together
 - o BTAC's aspirations and plans how can Woodside support BTAC regarding potential employment and contracting opportunities.
 - Environmental planning consultations about Woodside's Scarborough Project with gas fields planned to be located offshore, approximately 380km northwest of Karratha.
- In addition:
 - Woodside advised it would like to and is required to consult with BTAC about the nature of any interests BTAC have in the "environment that may be
 affected" (EMBA) by this work, and any concerns BTAC may have about potential environmental impacts, so these concerns can be addressed through the
 environmental planning and approvals process.
 - Woodside provided further information about government guidelines for these consultations and provided a link to https://consultation.nopsema.gov.au/environment-division/consultation-guideline/.
 - Woodside advised it would reach out in the next week with consultation information sheets.
- Woodside stated in the 10 January email that it would like to arrange a meeting between senior Woodside staff and BTAC's Board if BTAC felt that was appropriate and it would await guidance from BTAC.

Ensuring Sufficient Information and Sufficient Time

- On 20 January 2023, Woodside emailed BTAC advising of the proposed activity (Appendix F, reference 1.120) and provided a simplified Consultation Information
 Sheet (including a link to the detailed information sheet on Woodside's website) as well as a summary overview fact sheet. The email requested information on the
 interests that BTAC and its members may have within the EMBA, information on how BTAC would like to engage, and requested that BTAC provide information to
 members as required.
- On 23 January 2023, Woodside emailed BTAC with the consultation information noting it had previously sent an email to an incorrect email address (Appendix F, reference 1.121).

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- On 24 January 2023, BTAC emailed Woodside acknowledging it had received the information.
- On 27 January 2023, Woodside placed a phone call and as there was no answer, left a voice message and emailed BTAC to follow up on the information provided (Appendix F, reference 1.133).
- On 27 January 2023, BTAC emailed Woodside to acknowledge receipt of information and said they would be meeting within the week and would be in contact
 following their meeting.
- On 9 February 2023, Woodside emailed BTAC following up on correspondence and asking whether BTAC required any support or had feedback to provide.
- On 13 February 2023, BTAC representative called and spoke to Woodside asking what Woodside was proposing for next steps for consultation and whether
 Woodside would like to meet with the BTAC Board, the Council of Thalanyji Elders or present at a common law meeting. Woodside said they would be guided by
 BTAC but suggested meeting initially with the BTAC Board. Following a suggestion by BTAC that the group may benefit from an anthropologist to articulate sea
 country values, Woodside said they would look at those sorts of requests on a case-by-case basis. Woodside also confirmed they are able to support consultation
 meetings. A BTAC representative said he would discuss Woodside EPs with BTAC and aim to respond by 20 February 2023.
- On 20 February 2023, BTAC provided a letter to Woodside in relation to consultation on the broader Scarborough activities, including this proposed activity:
 - BTAC referred to the advertisements placed by Woodside regarding the proposed activity which sought feedback from persons or organisations who may hold interests in the EMBA by the activities.
 - o (1) (2) BTAC confirmed that BTAC on behalf of Thalanyji people has interests and that the Thalanyji people have an enduring deep connection to sea country north of Onslow, extending out to islands off the Pilbara coast such as the Monte Bello islands, Barrow Island and the Mackerel Islands.
 - BTAC advised it was seeking the opportunity to engage with Woodside and NOPSEMA on the activity.
 - (5) BTAC advised it has not specifically developed values regarding sea country into a format that could be articulated for consultation and seeks support from Woodside to enable BTAC to define and articulate its values on Sea Country in a manner that could be more clearly understood by the offshore sector, government, and the community. This would enable BTAC and Woodside to collaborate to develop effective management plans that can provide adequate protection to sea country values.
 - (3) BTAC advised the information in the consultation fact sheets is very general. BTAC sought support from Woodside to obtain technical support to review the information and provide BTAC and its members with feedback on the project risks to Sea Country and help BTAC contemplate the potential management controls that could be developed to protects its values and interests.
 - (4) BTAC requested that emergency response capability is developed and locally provided to be able to respond to potential activities/actions that may cause an impact in the EMBA. BTAC encouraged Woodside and industry to build capacity and capability in BTAC's ranger program so that it could participate in response planning and management activities.
 - (6) BTAC noted that ongoing consultation with BTAC will be imperative and likely continuous given recent changes to consultation requirements and this will continue to be a burden on the organisation. BTAC requested that Woodside enter into a consultation or engagement framework to ensure BTAC can be properly resourced financially and intellectually to participate in the consultation and management planning processes for the activities.
- On 22 February 2023, Woodside emailed BTAC:
 - Woodside thanked BTAC for its 20 February 2023 correspondence regarding consultations about the Scarborough project.

- Woodside advised it will respond to this correspondence in the coming days and would be most grateful for the opportunity to meet with BTAC to discuss the matters raised in its letter and Woodside's relationship more broadly.
- On 13 March 2023, BTAC emailed Woodside querying whether there was a revised submission date in relation to recently notified projects, noting that BTAC were awaiting feedback on their initial submission (20 February 2023 correspondence).
- On 13 March Woodside contacted BTAC via phone to discuss the correspondence on 20 February 2023.
- (3) On 17 March 2023, Woodside emailed a letter to BTAC:
 - Woodside thanked BTAC for its feedback and it looks forward to working with BTAC.
 - Woodside advised it acknowledges and respects that BTAC on behalf of the Thalanyji People (Thalanyji) has interests in the EMBA by the Scarborough Activities and wants to ensure these values and interests are protected.
 - Woodside advised it also acknowledges that through BTAC's correspondence, BTAC has proposed several important risk mitigation and management measures.
 - Woodside agreed that the principles BTAC have outlined are important. To paraphrase, these principles are that:
 - Woodside and BTAC work in a structured way and on an ongoing basis to learn about, articulate and understand each other's values, aspirations and work, particularly to ensure BTAC understands how Woodside's activities may impact on Thalanyji's values and interests.
 - (2) Arising from this consultation, Woodside and BTAC will continue to identify environmental risks and design and implement monitoring and management responses to these risks on an ongoing basis. This includes building on Woodside's knowledge base to understand Thalanyji's values and interests. Woodside understands this work will also improve BTAC's capability and capacity to identify risks and address monitoring and management arrangements, including through BTAC's ranger program.
 - BTAC has requested that Woodside provides BTAC with the resources that are necessary to undertake this work, including through the provision of information and Woodside personnel to provide briefings, and independent expert anthropological and environmental management advice to BTAC.
 - (3) Woodside advised that in response to the provision of independent expert environmental management advice to BTAC, Woodside would be pleased to provide the resources necessary for BTAC to obtain and retain this advice on the basis that such advice is provided by an experienced and reputable oil and gas environmental management expert who is independent of Woodside, and who has the capacity to undertake this work to meet consultation schedules.
 - Woodside suggested a range of organisations for BTAC's consideration who are not working for Woodside.
 - (4) Woodside also advised it would also be pleased to support BTAC to acquire anthropological advice.
 - O Woodside advised that it respects that BTAC has assessed the likelihood of unplanned events and impacts as possible, Woodside has assessed the likelihood of a major unplanned hydrocarbon release event as highly unlikely. By way of example the Scarborough Activities EMBA's are premised on an unmitigated diesel spill arising from the collision of large vessels, the piercing of fuel tank(s) from that collision causing all the fuel tank to leak out, and no control measures being enacted. Woodside has been operating for over 35 years and has never caused an unplanned event like this; however, Woodside must plan for and consult about such events.
 - Woodside advised that Woodside's target is to ship the first cargo of LNG from the Scarborough project in 2026, and to enable that:
- Drilling and completions work is planned to occur anytime within a five-year window commencing in the second half of 2023, pending approvals.

- Seabed installation and trunkline installation activities in Commonwealth waters are expected to commence in around late 2023, pending approvals.
- Subsea infrastructure installation activities are planned to commence in the second half of 2023, pending approvals, with activities occurring in multiple campaigns
 and estimated to be completed within about 18 months.
- Seismic activities are planned to start in the first half of 2023, pending approvals, and will take place over a period of between 55 and 70 days.
 - Links to relevant consultation information sheets to the above activities were also provided to BTAC for the second time (first sent on 23 January).
 - Woodside noted that considering the above schedule, there is time for BTAC and Woodside to work together in the short, medium and longer term to identify, develop and refine management responses to environmental risk.
 - Woodside advised that with reference to the timeframes as described above, environmental protection and management associated with these activities is subject to an adaptive management approach. This means that consultation between Woodside and BTAC about environmental risk and management responses is ongoing, and changes can be made to improve environmental protection and management practices over time, including in the associated Environment Plans (EPs). Woodside proposed the following next steps:
- Woodside will formalise the matters outlined in its correspondence between Woodside and BTAC by including in each of the Environment Plans statements along the following lines:
- BTAC for and on behalf of Thalanyji has interests and values in the EMBAs and is concerned about the possible impact on these interests and values, including to Sea Country, arising from Woodside's proposed activities.
- BTAC, with support from Woodside and through the provision of independent expertise, will on an ongoing basis:
- (5) convey to Woodside the nature of Thalanyji's interests and values, noting that BTAC would like to conduct work to articulate those values in a manner that Woodside understands.
- provide information to Woodside about how those interests and values intersect with the EMBAs and how that should be managed.
- (4) Woodside will engage in ongoing consultation with BTAC for the purposes of ongoing monitoring, management and emergency response associated with environmental risk.
- Woodside and BTAC will work under an adaptive management approach as the understanding of each other's values and interests, activities, needs and aspirations
 grow during the course of ongoing consultation. This means that Woodside's Environment Plans may be updated from time to time so they accurately reflect
 environmental risk as they relate to BTAC's interests and values, and the management measures that Woodside and BTAC will put in place to avoid and otherwise
 mitigate and manage environmental risk.
 - BTAC can at any time can make direct representations to the National Offshore Petroleum Safety and Environmental Management Authority (NOPSEMA) about the nature of BTAC's interests and how they may be affected by Woodside's activities.
 - Woodside proposed if BTAC considers it appropriate, that the principles discussed in its correspondence (this 17 March 2023 letter and BTAC's correspondence of 20 February 2023) apply to the various decommissioning and drilling EPs that Woodside has notified BTAC about. This will ensure these arrangements are formalised into regulatory processes and documentation. As per Woodside's ongoing consultation approach, feedback continues to be assessed through the life of the EPs.
 - Woodside advised BTAC that its letter of 20 February 2023 and this response will be included in the EP. Woodside requested that if their feedback is sensitive, please inform Woodside, and it will make this known to NOPSEMA upon submission of the Environment Plans to ensure this information remains confidential to NOPSEMA.

- On 30 March 2023, Woodside spoke with BTAC to follow up on correspondence described above. BTAC indicated that they desire a consultation agreement and intend to provide correspondence accordingly.
- (1 & 2) On 17 April 2023, Woodside spoke with BTAC by telephone. The BTAC representative stated that they were aware that there were archaeological sites identified on nearshore islands and a cultural obligation to care for the environmental values of sea country. The BTAC representative stated there was in principle agreement to submission of current EPs while continuing to negotiate the collaboration agreement for support for rangers and support for recording of cultural values.
- On 18 April 2023, BTAC emailed a response regarding Woodside's Scarborough activities:
 - BTAC agreed that subject to formalising arrangements, BTAC agrees in principle for Woodside to include the statements described in our letter dated
 17 March.
 - (6) BTAC proposed that a Collaboration Agreement would be an appropriate mechanism to provide ongoing feedback to Woodside regarding its activities.
 - BTAC invited Woodside to a board meeting to discuss Scarborough activities and other short-, medium- and longer-term activities, discuss BTAC's strategic plan and details of a collaboration agreement.
- On 19 April 2023, Woodside emailed to accept an invitation from BTAC to attend their forthcoming board meeting and requesting half a day of the board's time, preferably before the first week of May.
- On 28 April 2023, Woodside emailed BTAC to follow up in relation to BTAC's proposed collaboration agreement and confirmed Woodside's intention to submit this EP, on the understanding that BTAC is agreeable to this course of action, on the basis that we will progress the collaboration agreement. Woodside asked BTAC to identify if it had misinterpreted BTAC's position.
- On 4 May 2023, Woodside called BTAC. It was discussed that:
 - Woodside would be sending BTAC more EPs (for other activities) for consultation.
 - (6)Woodside is working on draft key terms/principles for the collaboration agreement for BTAC's consideration.
 - A meeting between Woodside and the BTAC board may be possible in June.
 - Woodside intended to submit the Scarborough EPs (including this proposed activity) soon.
- On 4 May 2023, BTAC emailed Woodside to continue discussion regarding a potential future meeting between Woodside and the BTAC board to discuss activities
 on Thalanyji Country, activities for which BTAC's ongoing consultation is sought, the collaboration agreement and other items not related to this proposed activity.
- 19 May 2023, BTAC emailed Woodside requesting that all activities including this activity be included in proposed presentations.
- (6) On 14 June 2023, Woodside emailed BTAC attaching a letter setting out draft framework for ongoing consultation which includes recording of sea country values, commitments to regular three-monthly meetings, support for BTAC's capacity to engage, a set of milestones for agreeing the framework and commencement of implementation.
- On 19 June 2023, BTAC emailed Woodside acknowledging information and confirming interests as set out in correspondence about Scarborough activities.
- On the 6 July 2023, Woodside attempted to make contact via phone call, but BTAC did not answer.
- On the 7 July 2023, Woodside attempted to make contact via phone call, but BTAC did not answer.

- On the 10 July 2023, Woodside followed a phone call with BTAC with an email to seek further confirmation that BTAC did not object to Woodside's submission of a number Environmental Plans (including this one) that it is planning to submit to NOPSEMA. Woodside outlined a series of commitments to BTAC to ensure ongoing consultation and a positive working relationship continues.
- On 19 July 2023, Woodside emailed BTAC NOPSEMA's Consultation Guidelines, Consultation Brochure, and Draft Policy for Managing Gender-Restricted Information. This email also reiterated Woodside's request that BTAC advise Woodside of any other Traditional Custodian groups or individuals with whom Woodside should consult, no response was received to this email.
- On 19 July 2023, Woodside emailed BTAC seeking a time to continue discussion regarding a draft presentation to meeting between Woodside and the BTAC Board about activities on Thalanyji country including other items not related to this proposed activity, and the collaboration principles.
- On 19 July 2023, BTAC emailed Woodside to organise a time for the discussion.
- On 20 July 2023, Woodside emailed BTAC a draft presentation for discussion.
- On 21 July 2023, Woodside emailed BTAC a Teams meeting invite for 28 July 2023.
- On 21 July 2023, BTAC accepted the meeting invite.
- On 26 July 2023, Woodside emailed BTAC Woodside's planned Program of Ongoing Engagement with Traditional Custodians.
- On 26 July 2023, Woodside emailed BTAC confirming the planned meeting for 28 July 2023, a presentation regarding consultation, and re-sent the draft presentation sent on 20 July 2023.
- On 28 July 2023, Woodside emailed BTAC meeting details to join a Teams meeting of 28 July 2023.
- On 28 July2023, BTAC emailed Woodside with outcomes of meeting, confirming Woodside has set aside funding for engagement, Woodside wish to meet with BTAC board (or sub-committee) as soon as available to discuss offshore activities/EPs. Woodside will prepare a draft framework agreement to address consultations in relation to NOPSEMA matters.
- On 31 July 2023, Woodside emailed BTAC noting that Woodside would be open to funding a special meeting with the board or sub-committee and requesting a cost estimate for such a meeting.
- On 31 July 2023, Woodside emailed 3 letters to BTAC. One letter outlined support for an ethnographic assessment to:
 - o (2) Identify sea country values generally sufficient to inform all Woodside EP's.
 - o Any work necessary to clarify or define the offshore areas that are relevant to the Thalanyji People.
 - o The delivery of interim reports if this will enable prioritising matters considered most critical by BTAC.
 - o Woodside will be responsible for all reasonable costs to complete the assessment.
 - Confirm BTAC retains intellectual property.
 - The 3rd letter related to a different Scarborough activity which re-iterated Woodside's commitment to supporting BTAC to define and articulate Sea Country values requesting any advice to assist to clarify areas of interests Thalanyji have. Woodside provided timeframes for activities and a map depicting relevant Islands and this EP activity area.

- On 3 August 2023, Woodside emailed BTAC regarding the acceptance of a different Scarborough EP and asking for information in accordance with conditions of acceptance of that EP, specifically whether BTAC is aware of any people, who in accordance with Indigenous tradition, may have spiritual or cultural connections to the environment that may be affected by the activity that have not yet been afforded the opportunity to provide information that may inform management of the activity. The email also contained links to information on NOPSEMA's publications on EP consultation and its purpose. It also made clear that any gender restricted, or culturally sensitive information would be managed carefully and appropriately. An offer of support to participate in consultation was made.
- On 9 August 2023, Woodside emailed BTAC again seeking feedback and information relating to a separate Scarborough EP that had been accepted, stating the conditions of acceptance of that EP:
 - if BTAC was aware of any people, who in accordance with Indigenous tradition, may have spiritual and cultural connections to the environment that
 may be affected by the activity that have not yet been afforded the opportunity to provide information that may inform the management of the activity;
 and
 - if there was any information you wish to provide on cultural features and/or heritage values
 - the email gave the planned commencement of activity under that EP and stated that if no feedback had been received by COB on the day prior, it
 would be taken to mean no information was desired to be given prior to commencement.
 - o the email also described the purpose of consultation.
- On 11 August 2023, BTAC emailed Woodside notifying that a response could be expected by the end of the week.
- On 15 August 2023, Woodside phoned and emailed BTAC following up on correspondence provided on 31 July, requesting to meet and discuss matters with BTAC.
- On 22 August 2023, BTAC emailed Woodside acknowledging correspondence and noting they would come back with a time to meet and progress matters, within
 the following weeks.
- On 23 August 2023, Woodside emailed BTAC requesting to meet for an initial discussion to layout the various matters that have been under discussion, including BTAC's capacity and priority areas previously identified by BTAC.
- On 14 September 2023, Woodside emailed BTAC advising of the planned start date for the activity, and once again requesting if BTAC is aware of any other people with whom Woodside should consult, and if there is any information BTAC wish to provide on cultural values. The email requested that information be distributed to members or individuals who may be interested. It requested this information prior to 28 September 2023, but reiterated that Woodside will take feedback after the commencement of the activity as part of ongoing consultation. The Summary Information Sheet for this activity was attached (Appendix F, Reference 1.107).
- On 14 September 2023, BTAC emailed a letter to Woodside regarding a framework agreement with BTAC. The intent of the agreement would be to formalise a coordinated, streamlined approach to progressing meaningful ongoing engagement and consultation. The letter included areas the agreed framework could address, and confirmed that the agreed framework would allow BTAC to meaningfully comment on a range of issues including:
 - How/whether EP activities could impact cultural values, interests and customary or organisational activities and concerns and useful ways these could be addressed.
 - The content of EPs prior to submission to NOPSEMA.
 - Appropriate ways for mitigating risk and ensuring ongoing social licence.
 - (7) A further letter was attached outlining a proposed cost recovery mechanism for consultation activities, and BTAC stated that it did not sanction or endorse any consultation occurring without cost recovery

- On 14 September 2023, BTAC emailed further to their previous email requesting a list of all known activities and EP's.
- On 14 September 2023, Woodside emailed BTAC acknowledging BTAC's email of 14 September and planning further review and discussion.
- On 20 September 2023, BTAC emailed Woodside requesting a response from Woodside about accepting the proposed costs acceptance letter which BTAC sent on 14 September 2023 and requesting a list of current and ongoing activities Woodside were seeking ongoing consultation for.
- On 20 September 2023, BTAC emailed Woodside further to their earlier email, requesting a response to BTAC's cost proposal, a list of Woodside activities for ongoing consultation and an update on the status of the framework agreement for BTAC's review.
- (6) On 22 September 2023, Woodside emailed BTAC accepting BTAC's proposed consultation fee structure, the list of activities that Woodside has consulted BTAC on and advising that the draft framework agreement was under internal review.
- On 26 September BTAC emailed Woodside acknowledging EP information received, signed costs and acceptance letter and that a draft agreement was currently under internal Woodside review. The email confirmed BTAC will be assisted with legal advice from Banks-Smith & Associates (BSA).
- On 27 September 2023, BSA emailed Woodside clarifying that they are instructed by BTAC on this matter.

Summary of Feedback, Objection or Woodside Energy's Assessment of Merits of Feedback, Objection **Environment Plan Controls** Claim or Claim and its Response (1) Not required (1) BTAC stated that their interests (1) The nearshore islands identified by BTAC do not fall within the (2) Woodside updated **Section 4.9** to record BTAC's EMBA and will not be impacted by any of the activities set out in include archaeological sites interests and potential cultural values and assessed identified on nearshore islands potential impact on these, including controls, in including the Montebello Islands, (2) Woodside assessed BTAC's cultural obligation to care for Section 6.10. Barrow Island and the Montebello environmental values of sea country to represent potential cultural (3) Not required Islands. (2) BTAC has a cultural obligation to (3) Woodside has offered financial support for technical advice and care for the environmental values of other support that has not been taken up (e.g. 17 March 2023 (4) The Program for Ongoing Engagement with sea country. Traditional Custodians (Appendix J) includes (3) Requested Woodside supports (4) Woodside will engage in ongoing consultation with BTAC for the commitments to social investment to support BTAC in obtaining technical advice purposes of ongoing monitoring, management and emergency Indigenous Ranger programs, and support for relating to the proposed activity response associated with environmental risk (eg 17 March letter). Indigenous oil spill response capabilities. which was sent to BTAC. (5) Woodside agreed to support the articulation and recording of sea country values. Since Woodside formally offered to support BTAC (4) Expressed desire to be involved in (5) Woodside has developed the Thalanyji Sea Country local emergency response undertake an ethnographic assessment in July 2023, BTAC has not Management process described in the EP Section indicated that it desires to initiate the activity. Completion of an capability, potentially via an **7.4** to develop a robust understanding of Thalanvii Indigenous Ranger Program. ethnographic assessment is not required to undertake or complete Sea Country cultural values and heritage features, in (5) BTAC has not specifically consultation under Reg 11A. Opportunity to undertake this work the absence of the ethnographic survey. Woodside continues under the proposed Collaboration Agreement (see 6) as developed values regarding Sea has taken all reasonable steps to identify cultural Country into a format that could be part of ongoing engagement. Woodside has been able to develop a features and heritage features of Thalanyji people articulated for consultation. BTAC robust understanding of Thalanyji Sea Country cultural values and within the EMBA. This is described in Section 4.9. features in absence of this assessment. sought support from Woodside to

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- enable BTAC to define and articulate its values on Sea Country in a manner that could be more clearly understood by the offshore sector, government, and the community.
- (6) BTAC proposed a Collaboration Agreement as an appropriate mechanism to provide ongoing feedback to Woodside regarding its activities.
- (7) BTAC does not endorse any consultation without appropriate cost recovery.
- Separate from consultation under Reg 11A, Woodside will establish a Collaboration Agreement with BTAC. The agreement would be used to frame ongoing consultation. Sufficient information to allow informed assessment has already been provided by other means, including Consultation Information Sheets and a Summary Information Sheet developed by Indigenous staff members, and slide packs associated with offered face-to-face meetings.
 - Woodside and BTAC have agreed on a Costs Acceptance Letter. Woodside has developed a Framework Agreement for ongoing consultation which is under internal review and will be forwarded to BTAC for their consideration in October 2023. The agreement includes support for recording and articulation of Sea Country values.
 - Woodside engages in ongoing consultation throughout the life of an EP. Should feedback be received after the EP has been accepted (including any relevant new information on cultural values), it will be assessed and, where appropriate, Woodside will apply its Management of Change and Revision process (see Section 7.8).
- (7) Woodside assesses that the proposed Collaboration Agreement is an appropriate mechanism for addressing appropriate cost recovery for BTAC. Woodside has already offered BTAC support for technical advice (see 3), and informed BTAC that is would financially support consultation meetings (eg 13 Feb 23 discussion). As described in the summary above, Woodside has afforded sufficient information and reasonable time for BTAC to provide feedback in the course of preparing this EP.

The proposed Collaboration Agreement and **PS 14.2.1** enables an ethnographic survey to be undertaken at a later date. Should feedback be received after the EP has been accepted (including any relevant new information on cultural values), it will be assessed and, where appropriate, Woodside will apply its Management of Change and Revision process (see **Section 7.8**). **PS 14.3.1** ensures that potential impacts to newly identified cultural values is managed to ALARP and Acceptable levels.

(6) and (7) Woodside is implementing a program to actively support Traditional Custodians' capacity for ongoing engagement and consultation on environment plans for the purpose of avoiding impacts to cultural heritage values, referenced as **PS 14.2.1** in this EP. This includes continued engagement regarding the Collaboration Agreement that Woodside seeks with BTAC, which could include support for BTAC to define and articulate values, provision of ongoing feedback and cost recovery. This is described further in the Program of Ongoing Engagement with Traditional Custodians, Appendix

Robe River Kuruma Aboriginal Corporation (RRKAC)

RRKAC is established under the Native Title Act 1993 by the Robe River Kuruma people to represent the Robe River Kuruma people (defined broadly by reference to descent from the set of ancestors who were known to have a continuous and unbroken connection as the Traditional Custodians at the time of European colonisation) and represent their communal interests including, among other things, management and protection of cultural values.

Woodside has discharged its obligations for consultation under Regulation 11A(1) and consultation with RRKAC for the purpose of 11A(1) is complete. Sufficient information and a reasonable period have been provided, as described in Section 5.5 of the EP. Specifically:

Sufficient Information:

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- Woodside Sought direction on RRKAC's preferred method of consultation. This resulted in a face-to-face meeting being coordinated at the location of RRKAC's choosing, with RRKAC nominated representatives. This meeting included Woodside presenting information in a format and style that was readily accessible and appropriate.
- Provided Consultation Information Sheets and Consultation Summary Sheets developed by Indigenous staff to RRKAC. These set out details of the proposed activity, the location of the activity, the timing of the activity as well as the potential risks and impacts of the activity with controls in a digestible, plain English format
- Articulated planned and unplanned environmental risks and impacts, with proposed controls.
- Confirmed the purpose of consultation and set out in detail what was being sought through consultation. Asked for the consultation and information sheets to be distributed to members and individuals.
- Woodside has provided NOPSEMA's Brochure "Consultation on offshore petroleum environment plans" and Guideline "Guideline: Consultation in the course of preparing an environment plan
- Provided response to questions asked about the activity through consultation. Through these questions, RRKAC have displayed an understanding of the activities under this Environment Plan as well as the broader Scarborough Project.
- Advised that RRKAC could request the particular information provided in the consultation not be published (to align with 11A(2)(4))

Reasonable Period:

- Woodside published advertisements in national, state, and relevant local newspapers including The Australian, The West Australian, Pilbara News (October 2022 and January 2023), Midwest Times, Northwest Telegraph and Geraldton Guardian (January 2023) advising of the proposed activities and requesting comments or feedback.
- Consultation information provided to RRKAC on 20 January 2023 based on their function, interest, and activities.
- Woodside has addressed and responded to RRKAC over 9 months, demonstrating a "reasonable period" of consultation.

Woodside asked RRKAC if it was aware of any other Traditional Custodian groups or individuals with whom Woodside should consult. None were identified.

Woodside has provided a reasonable opportunity for input since January 2023 and a genuine two-way dialogue has occurred via meetings and written exchanges to further understand the environment in which the activity will take place. RRKAC has engaged with the detail of the activity asking related questions. The details of these engagements are described in the consultation summary below.

Woodside engages in ongoing consultation, beyond that required by Regulation 11A, throughout the life of an EP. Should feedback be received after the EP has been accepted (including any relevant new information on cultural values), it will be assessed and, where appropriate, Woodside will apply its Management of Change and Revision process (see Section 7.8.1 of the EP).

Woodside considers the measures and controls described in this EP address the potential impact from the proposed activity on RRKAC's functions, interests or activities. **Summary of information provided and record of consultation:**

- On 20 January 2023, Woodside emailed RRKAC advising of the proposed activity (Appendix F, reference 1.119) and provided a simplified Consultation Information Sheet (including a link to the detailed information sheet on Woodside's website) as well as a summary overview fact sheet. The email requested information on the interests that RRKAC and its members may have within the EMBA, information on how RRKAC would like to engage, and requested that RRKAC provide information to members as required.
- On 31 January 2023, Woodside discussed with a RRKAC representative to discuss the proposed activity and ways forward for consultation:

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- RRKAC advised during the virtual meeting that the activity would need to be considered by their Heritage Advisory Committee scheduled for late February 2023.
- On 24 February 2023 Woodside emailed RRKAC to follow up on the information provided (Appendix F, reference 1.199) and the proposed February 2023 meeting. Woodside noted it is seeking RRKAC's feedback as soon as possible on the proposed activity.
- On 9 March 2023, RRKAC emailed Woodside (and copied in CEO of Wirrawandi Aboriginal Corporation (WAC)):
- RRKAC advised it has discussed the proposed activity with the Robe River Kuruma Heritage Advisory Committee and they have recommended that the interests of Robe River Kuruma people are best served through the joint Heritage Advisory Committee that is required under Yaburara Mardudhunera and Kuruma Marthudunera Indigenous Land Use Agreement.
- RRKAC also suggested that WAC is required to facilitate this Committee and noted there is an emerging need to deal with other proponent matters, so there is an opportunity to link the engagement from a meeting efficiency perspective.
- Between 15-17 March 2023, Woodside exchanged email correspondence with RRKAC (and WAC) and in relation to establishing a meeting with the joint Heritage Advisory Committee (HAC). The meeting was confirmed for 31 March 2023.
- On 15 March 2023, Woodside emailed RRKAC to ask when date of joint HAC would occur and how Woodside can support it.
- On 15 March 2023, RRKAC emailed Woodside emailed regarding contacts for the proposed meeting.
- On 15 March 2023, Woodside emailed RRKAC to advise who from Woodside would lead the process.
- On 15 March 2023, RRKAC emailed Woodside to advise the joint HAC meeting was scheduled tentatively for 31 March 2023 but that this would depend on WAC's
 availability but that the RRKAC representatives are able to attend.
- (1) On 31 March 2023, Woodside met with the Robe River Kuruma and Wirrawandi Joint Heritage Advisory Committee (HAC) in Karratha:

- Woodside described the Environment Plan framework, referring to the Offshore Petroleum and Greenhouse Gas Storage Act (Environment) Regulations, NOPSEMA's role as regulator and general contents of Environment Plans.
- Woodside encouraged HAC to raise anything which they feel is missing in the information provided during the meeting, or any issues or concerns.
- Woodside displayed a map of activities open for feedback to be discussed in the meeting and provided a list of other upcoming activities which will be open for consultation in 2023.
- Woodside provided an overview of the broader Scarborough Project and overview of activities.
- Woodside provided an overview of each proposed Scarborough activity (including Seismic Survey, Drilling and Completions, Seabed Intervention and Trunkline Installation and Subsea Infrastructure Installation) and a summary of both planned and unplanned impacts and associated controls.
- HAC asked what would happen if something happened to the subsea pipelines while in operation. Woodside responded that dry gas would be released, and a portion would be dissolved into the water before reaching surface depending on water depth, and gas reaching the surface could be a safety risk or contribute to greenhouse gas in the atmosphere.
- HAC asked a number of questions related to the broader Scarborough project but not this proposed petroleum activity.
- Woodside described the subsea infrastructure installation proposed activities. Flowlines link up and collect the gas, bringing it back to the floating production facility.
- Woodside described the proposed installation of gravimetry structures. Approximately 200 of these are placed from a vessel. Woodside played a video showing subsea infrastructure and gravimetry installation.
- Woodside described planned and unplanned environmental risks and impacts in accordance with tables provided in the Information Sheets for the activities, emphasising that unplanned risks are not expected to occur and are unlikely.
- The EMBA for each proposed Scarborough activity was displayed, and the individual worst-case loss of containment scenarios identified, noting that they are all diesel fuel releases which would only be caused by vessel collisions.
- HAC asked what response Woodside would implement for a diesel spill. Woodside responded that response arrangements are checked by NOPSEMA and since diesel rapidly evaporates and disperses response is mainly monitoring.
- Woodside noted this concluded the Scarborough section of the meeting and called for any further questions or feedback. None were received.
- Woodside provided personal contact details for further feedback.
- Woodside provided NOPSEMA contact details, should the HAC desire to provide feedback directly to the regulator.
- (2 & 3) On 3 May 2023, Woodside emailed a letter to RRKAC:
- Woodside thanked the HAC for the meeting, their careful consideration of the matters and feedback provided.
- Woodside acknowledged that the RRKAC have interests in the EMBA and noted that we want to ensure impacts are as minimal as reasonably practicable.
- A high-level overview of presented topics was provided.
- Woodside provided responses to questions noted from the meeting that were not related to the proposed activity.
- Woodside notified that the feedback and the letter will be included in Environment Plans that will be submitted to NOPSEMA.
- Woodside provided responses to questions noted from the meeting that were not related to the proposed activity.
- Woodside notified that the feedback and the letter will be included in Environment Plans that will be submitted to NOPSEMA.
- On 18 July 2023, Woodside emailed RRKAC NOPSEMA's Consultation Guidelines, Consultation Brochure, and Draft Policy for Managing Gender-Restricted Information. This email also reiterated Woodside's request that RRKAC advise Woodside of any other Traditional Custodian groups or individuals with whom Woodside should consult. No response was received to this email.

- (3) On 26 July 2023, Woodside emailed RRKAC Woodside's planned Program of Ongoing Engagement with Traditional Custodians.
- On 2 August 2023, Woodside emailed RRKAC regarding the acceptance of a separate Scarborough EP and asking for information in accordance with conditions of acceptance of that EP. It specifically asked whether RRKAC is aware of any people, who in accordance with Indigenous tradition, may have spiritual or cultural connections to the environment that may be affected by the activity that have not yet been afforded the opportunity to provide information that may inform management of the activity. The email also contained links to information on NOPSEMA's publications on EP consultation and its purpose. It also made clear that any gender restricted, or culturally sensitive information would be managed carefully and appropriately. An offer of support to participate in consultation was made.
- On 9 August 2023, Woodside emailed RRKAC again seeking feedback and information relating to a separate Scarborough EP that had been accepted, stating the conditions of acceptance of that EP:
 - o if you are aware of any people, who in accordance with Indigenous tradition, may have spiritual and cultural connections to the environment that may be affected by the activity that have not yet been afforded the opportunity to provide information that may inform the management of the activity; and
 - o if there is any information you wish to provide on cultural features and/or heritage values
- On 11 August 2023, RRKAC emailed Woodside in response to another matter and in addition requesting ongoing consultation and training opportunities for rangers to prepare rangers for caring for sea and coastal country.
- On 14 August 2023, Woodside emailed RRKAC thanking them for their response and requesting to meet to discuss training opportunities for rangers.
- On 14 August RRKAC emailed Woodside agreeing to a meeting and indicating they would arrange a suitable time for a discussion
- On 14 September 2023, Woodside emailed RRKAC acknowledging the previous email, advising of the planned start date for the activity, and once again requesting if RRKAC was aware of any other people with whom Woodside should consult, and whether there was any information RRKAC wish to provide on cultural values. The email requested that information be distributed to members or individuals who may be interested. It requested this information prior to 28 September 2023, but reiterated that Woodside will take feedback after the commencement of the activity as part of ongoing consultation. The Summary Information Sheet for this activity was attached (Appendix F, reference 1.107).
- **(3)** On 15 September 2023, RRKAC emailed Woodside noting the compliance burden on industry and RRKAC, advising they have noted Woodside's plans, and that they are not resourced to adequately respond, and would require Woodside to fund additional resources.
- (3) On 18 September 2023, Woodside emailed RRKAC confirming that Woodside will provide funding to enable groups to participate in consultations.

Summary of Feedback, Objection or Claim	Woodside Energy's Assessment of Merits of Feedback, Objection or Claim and its Response	Environment Plan Controls
(1) During face-to-face engagements related to this activity and others, the RRKAC/ HAC requested further information on topics related to this proposed activity which was responded to during the meeting:	 (1) Woodside responded to RRKAC/HAC's requests for further information during face-to-face engagements, and no further information was requested on these topics. (2) Woodside supports ongoing engagement and have responded to RRKACs advice about the limitations on their resources, Woodside 	 Existing controls considered sufficient, as described in Section 6. & (3) Woodside is implementing a program to actively support Traditional Custodians' capacity for ongoing engagement and consultation on environment plans referenced as PS 14.2.1 in this EP. This includes

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- Emergency preparedness.
- What happens with a small diesel spill.
- Consequence of a flowline leak during operations
- The RRKAC/HAC raised feedback and request for further information on the Scarborough project more broadly which will be provided as part of ongoing engagement.
- (2) The RRKAC/HAC expressed a desire for ongoing engagement and partnership.
- (3) RRKAC noted that they are insufficiently resourced to fully engage and respond regarding EPs.

- has offered to support RRKAC in correspondence sent in May and September 2023, however these offers have not been taken up.
- (3) Woodside has assessed the Program of Ongoing Engagement with Traditional Custodians will support ongoing consultation with RRKAC and address appropriate support for resourcing, separate from consultation under Reg 11A, Sufficient information to allow informed assessment has already been provided by other means, including Consultation Information Sheets and a Summary Information Sheet developed by Indigenous staff members, and a face to face meeting on 31 March 2023 for which Woodside met RRKAC's costs, with appropriate material (pictures, maps, videos) and project attendance allowing opportunity to ask questions and seek further understanding.

addressing RRKAC's resourcing issue for ongoing consultation via a Framework Agreement.

Nganhurra Thanardi Garrbu Aboriginal Corporation (NTGAC)

NTGAC is established under the Native Title Act 1993 by the Baiyungu people to represent the Baiyungu people (defined broadly by reference to descent from the set of ancestors who were known to have a continuous and unbroken connection as the Traditional Custodians at the time of European colonisation) and represent their communal interests including, among other things, management and protection of cultural values.

Woodside has consulted under Regulation 11A with NTGAC by providing sufficient information, a reasonable period of time and opportunity for NTGAC to make an informed assessment of the possible consequences of the activities on functions, interests or activities. Woodside has addressed each objection or claim made by NTGAC. Woodside has included cultural values and controls relevant to Woodside's understanding of NTGAC's functions, interests and activities in its environment plan and in response to topics raised during consultation by NTGAC.

As demonstrated in the summary below and consultation record that follows, consultation with NTGAC complies with Regulation 11A and is complete.

Summary

Sufficient Information:

- Woodside Sought direction on NTGAC's preferred method of consultation. This resulted in two face-to-face meetings being coordinated at location of NTGAC's choosing, with NTGAC nominated representatives. These meetings included Woodside presenting information in a format and style that was readily accessible and appropriate.
- Provided Consultation Information Sheet and Consultation Summary Sheets to NTGAC. These set out details of the proposed activity, the location of the activity, the timing of the activity as well as the potential risks and impacts of the activity in a digestible, plain English format.

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- Articulated planned and unplanned environmental risks and impacts, with proposed controls to manage potential impacts to ALARP and acceptable levels.
- Confirmed the purpose of consultation and set out in detail what is being sought through consultation.
- Suggested that information and request for feedback be distributed to members as required.
- Woodside has provided NOPSEMA's Brochure "Consultation on offshore petroleum environment plans" and Guideline "Guideline: Consultation in the course of preparing an environment plan"
- Provided response to questions asked about the activity through consultation. Through these questions, NTGAC have displayed an understanding of the activities under this Environment Plan as well as the broader Scarborough Project.
- As per a request from NTGAC, Woodside funded YMAC's environmental scientist to attend two face-to-face meetings to support consultation and funded a YMAC lawyer to attend the August meeting with NTGAC. This assisted in ensuring any technical information was provided in a way which allowed NTGAC to make an informed assessment of the possible consequences of the activities on the functions, interests or activities.

Reasonable Period:

- Woodside published advertisements in national, state, and relevant local newspapers including The Australian, The West Australian, Pilbara News (October 2022 and January 2023), Midwest Times, Northwest Telegraph and Geraldton Guardian (January 2023) advising of the proposed activities and requesting comments or feedback.
- Woodside commenced consultation with NTGAC in January 2023. Woodside has since addressed and responded to NTGAC queries over 9 months, demonstrating a "reasonable period" of consultation.

Woodside advised that NTGAC can request that particular information provided in the consultation not be published (to align with 11A(2)(4))

Woodside asked NTGAC if it was aware of any other Traditional Custodian groups or individuals with whom Woodside should consult. None were identified.

Woodside has provided a reasonable opportunity for input since January 2023 and a genuine two-way dialogue has occurred via meetings and written exchanges to further understand the environment in which the activity will take place. NTGAC has engaged with the detail of the activity asking related questions. The details of these engagements are described in the consultation summary below.

Woodside engages in ongoing consultation, beyond that required by Regulation 11A, throughout the life of an EP. Should feedback be received after the EP has been accepted (including any relevant new information on cultural values), it will be assessed and, where appropriate, Woodside will apply its Management of Change and Revision process (see Section 7.8.1 of the EP).

Woodside considers the measures and controls described in this EP address the potential impact from the proposed activity on NTGAC functions, interests or activities.

Woodside does not agree with NTGAC's assertion that it has not yet completed consultation under regulation 11A. Woodside has assessed the claims and feedback raised by NTGAC, as detailed later in this section alongside Woodside's response to the claims. Woodside considers the measures and controls described in this EP address the potential impact from the proposed activity on NTGAC's functions, interests, or activities.

Summary of information provided and record of consultation:

YMAC is the Native Title Representative Body (NTRB) for the Yamatji and Pilbara regions, which includes NTGAC. NTRBs exist to provide assistance to native title claimants and holders in regard to their native title rights. No native title has been recognised over the Project Area, however YMAC is identified in the North-west Marine Parks Network Management Plan as the contact for identifying cultural values in nearby Australian Marine Parks.

• On 7 July 2022, Woodside met with YMAC to request advice on the appropriate cultural authorities for the Scarborough project area, including but not limited to the scope of this EP and nearby marine parks:

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- Woodside described the Scarborough Project and its footprint and gave an overview of indigenous parties consulted.
- Woodside noted that YMAC was identified in the North-West Marine Parks Network Management Plan as contact for identifying cultural values in nearby Australian Marine Parks. Woodside sought to understand if cultural values of the nearby Gascoyne Marine Park may extend into the offshore Scarborough project areas.
- Woodside requested advice on how best (in addition to work completed) to identify any cultural values in the Marine Parks and the broader project footprint.
- YMAC requested Woodside provide the relevant detailed information relating to the location and extent of the project.
- YMAC directed Woodside that consultation related to Scarborough Project would be best directed to Murujuga Aboriginal Corporation and Ngarluma Aboriginal Corporation
- YMAC did not direct Woodside to engage with NTGAC, however NTGAC was identified as a relevant person under methodology outlined in section 5 and YMAC is listed
 as NTGAC's preferred contact on the ORIC website and is therefore Woodside's primary contact when engaging NTGAC.
 - On 6 January 2023, Woodside phoned NTGAC via the representative body Yamatji Marlpa Aboriginal Corporation (YMAC) for the purpose of introduction and to explain that Woodside will be sending information concerning EPs.
- On 20 January 2023, Woodside emailed NTGAC via the representative body YMAC advising of the proposed activity (Appendix F, reference 1.111) and provided a simplified Consultation Information Sheet (including a link to the detailed information sheet on Woodside's website) as well as a summary overview fact sheet, asking what interests NTGAC and its members may have within the EMBA and whether they required any information to prepare for a meeting.
- On 27 January 2023 Woodside phoned and emailed NTGAC/YMAC to follow up on the information provided and information sought. Woodside requested if NTGAC required anything further ahead of a planned meeting with Woodside on 16 February 2023.
- On 1 February 2023, NTGAC/YMAC phoned Woodside to confirm the planned meeting for 16 Feb. It was arranged to hold a subsequent phone discussion between key representatives on 10 February to discuss scope for the consultation meeting. Woodside said that it is anticipating feedback from the group on the proposed activity at this consultation meeting and asked for any specific families or individuals that Woodside should be engaging with to be invited. NTGAC/YMAC responded that consultation with NTGAC as the representative body is appropriate. Woodside respected NTGAC's response and supported all NTGAC's proposed attendees to attend the meeting.
- On 10 February 2023, Woodside phone NTGAC and described the proposed scope of the consultation meeting planned for 16 February.
- On 16 February 2023, Woodside presented to a meeting of the NTGAC Board and YMAC representatives:
- Woodside described the Environment Plan framework, referring to the Offshore Petroleum and Greenhouse Gas Storage Act (Environment) Regulations, NOPSEMA's
 role as regulator and general contents of Environment Plans.
- Woodside encouraged NTGAC to raise anything which they feel is missing in the information provided during the meeting.
- Woodside displayed a map of activities open for feedback to be discussed in the meeting and provided a list of other upcoming activities which will be open for consultation in 2023.
- Woodside provided an overview of the broader Scarborough Project.
- Woodside provided an overview of each proposed activity (including Seismic Survey, Drilling and Completions, Seabed Intervention and Trunkline Installation and Subsea Infrastructure Installation) and a summary of both planned and unplanned impacts and associated controls.
- Woodside described the subsea infrastructure installation proposed activities, including equipment to be installed.
- Woodside described the proposed installation of gravimetry structures.

- Woodside noted that decommissioning and the ability to remove equipment has been part of the design process across the Scarborough Project
- Woodside described planned and unplanned environmental risks and impacts in accordance with tables provided in the Information Sheets for the activities, emphasising
 that unplanned risks are not expected to occur and are unlikely. It was noted that at a high level the categories of risks and impacts are similar to decommissioning
 previously discussed.
- Woodside explained that there is significantly more seabed disturbance associated with Scarborough activities than decommissioning, such as dredging and infrastructure installation, and that over a number of years Woodside has been undertaking modelling and research to understand impacts like dredge plumes. This also incorporates real monitoring observations from previous activities.
- Woodside described planned and unplanned environmental risks and impacts in accordance with tables provided in the Information Sheets for the activities, emphasising
 that unplanned risks are not expected to occur and are unlikely.
- (1 & 2) NTGAC asked if Woodside could explain impacts on whales from noise.
- Woodside replied that there has been modelling work done and applied to understanding of thresholds for hearing and behavioural impacts. It shows that there will be
 no lasting effect on whales, however there could be short term hearing impacts. Measures have been taken like removing driven piling from the activities to reduce noise
 impacts.
- Woodside further explained that there are not expected to be many turtles, dugongs, or humpbacks offshore but there could be pygmy blue whales.
- (1) YMAC asked how Woodside will monitor for whales.
- Woodside explained that it will have dedicated marine fauna observers and systems which can listen for whale song on some vessels. Presence of whales can postpone
 activities. Woodside noted that noise impacts are time bound and that whale tagging, and behaviour monitoring shows they are migrating and unlikely to stay around for
 hours, reducing the likelihood of impact from noise.
- (2) While discussing another activity, NTGAC expressed interest in whale sharks.
- The EMBA for each proposed Scarborough activity was displayed, and the individual worst-case loss of containment scenarios identified, noting that they are all diesel fuel releases which would only be caused by vessel collisions.
- Woodside noted this concluded the Scarborough section of the meeting and called for any further questions or feedback. None were received.
- Woodside stated that there is significant work and consultation coming up, and it hope to spend more time with NTGAC to understand expectations and desire of how Woodside can work with NTGAC.
- YMAC expressed that they are being inundated with requests for consultation from oil and gas operators and are working internally on processes and priorities for consultation.
- Woodside welcomed the transparency and discussion on capacity.
- NTGAC expressed that consulting on these activities is not viewed as wasting time, but consultation which gives nothing back to the community is not a priority. They are
 interested in partnership programs and on-country engagements.
- Woodside stated that while all the big companies will have deadlines and need to get feedback to meet legal requirements, WE desires it to be a jointly held process and
 that NTGAC desires any support or assistance please request it.
- Woodside provided personal contact details for further feedback.
- Woodside provided NOPSEMA contact details, should NTGAC desire to provide feedback directly to the regulator.
- On 21 February 2023, NTGAC/YMAC emailed Woodside to seek clarification of the attendee names at the 16 February 2023 Board meeting.

- On 21 February 2023, Woodside emailed NTGAC/YMAC the attendee names at the 16 February 2023 Board meeting and provided a copy of the presentation pack. Woodside followed up on request for any further feedback on the proposed activity.
- On 22 February 2023 NTGAC/YMAC emailed Woodside to thank Woodside for sending the relevant information.
- On 13 March 2023, Woodside met with NTGAC's legal representatives to discuss consultation on the Scarborough Project, preferred method and locality of consultation meetings, and to note that they will assist groups with funding to hold meetings on an agreed basis.
- On 22 March 2023, Woodside followed up by phone with NTGAC/YMAC on any feedback on the proposed activities. None was received.
- On 28 March 2023, YMAC followed up with Woodside on a Woodside action arising from the 16 February meeting to supply photos and diagrams in relation to the
 different activity.
- On 31 March 2023, Woodside followed up with the relevant photos and diagrams, noting contact details and welcoming any further feedback. Woodside thanked NTGAC for their work to date and requested that NTGAC reach out for any assistance. No further response was received to Woodside's request for feedback on the activity.
- On 19 April 2023, Woodside emailed YMAC/NTGAC following up with information offered at the meeting of 13 March 2023; management of emissions, organisations that may provide independent expertise and re-iterating they would like to meet with NTGAC.
- On 1 June 2023, Woodside phoned YMAC/NTGAC and left a voice mail, and sent an email to follow up on the email from 19 April. Woodside asked if any assistance or further information was required. No response was received.
- On 19 June 2023, NTGAC/YMAC emailed Woodside in response to an email about other activities, with instructions from NTGAC Directors that they would like to undertake a consultation workshop with Woodside on their activities.
- On 19 June 2023, Woodside emailed NTGAC/YMAC to request a one-day meeting with the NTGAC Directors to allow time for discussion and questions and offered to fund reasonable meeting costs.
- (3) On 20 June 2023, in two separate emails NTGAC replied they would return to Woodside with a suitable date and sought confirmation that Woodside would again fund the attendance of the in-house environmental scientist.
- (3) On 20 June 2023, Woodside replied they were happy to fund the in-house environmental scientist.
- On 21 June NTGAC/YMAC emailed Woodside confirming a full day workshop to cover all activities.
- On 21 June 2023, Woodside emailed NTGAC seeking a pre-meet to plan the workshop and offer further assistance.
- On 30 June 2023, NTGAC/YMAC emailed Woodside with a budget estimate for the meeting in Exmouth.
- On 5 July 2023, Woodside replied confirming the date and that they would pay for the costs outlined in the budget.
- On 17 July 2023, YMAC emailed Woodside referring to the draft YMAC consultation framework for PBCs and asked that the workshop focus on strategic planning with additional funding.
- On 19 July 2023, Woodside emailed NTGAC NOPSEMA's Consultation Guidelines, Consultation Brochure, and Draft Policy for Managing Gender-Restricted Information. This email also reiterated Woodside's request that NTGAC advise Woodside of any other Traditional Custodian groups or individuals with whom Woodside should consult. No response was received to this email.
- On 24 July 2023, Woodside agreed to the change of workshop focus and additional funding, proposed an agenda and a pre-meeting for joint planning.

- On 25 July 2023, Woodside emailed the YMAC CEO (and copied the NTGAC representatives) responding to the draft YMAC Framework for Consultation and
 emailing Woodside's planned Program of Ongoing Engagement with Traditional Custodians, noting that Woodside's Program would complement what is proposed in
 NTGAC's proposed Framework. The email proposed a meeting at YMAC's earliest convenience.
- On 28 July 2023, NTGAC/YMAC confirmed availability for a pre meeting.
- On 31 July 2023, Woodside emailed NTGAC/YMAC to accept a pre meeting date.
- On 9 August 2023, Woodside emailed NTGAC/YMAC requesting clarity around the meeting scheduled for 15 August 2023.
- On 9 August 2023, Woodside emailed NTGAC/YMAC again seeking feedback and information relating to a separate Scarborough EP that had been accepted, stating the conditions of acceptance of that EP:
 - o if you are aware of any people, who in accordance with Indigenous tradition, may have spiritual and cultural connections to the environment that may be affected by the activity that have not yet been afforded the opportunity to provide information that may inform the management of the activity; and
 - o if there is any information you wish to provide on cultural features and/or heritage values.
- (4) On 11 August 2023, NTGAC/YMAC emailed Woodside stating that NTGAC had not yet been consulted regarding the separate accepted Scarborough activity, that the proposed time frame for consultation is not workable for NTGAC, that they would be raising this with NOPSEMA and wished to discuss further in the meeting planned for 15 August 2023.
- On 11 August 2023, Woodside emailed NTGAC/YMAC noting that activity for a separate Scarborough activity would no longer commence on the date previously notified. Woodside confirmed the attendees for the meeting on 15 August 2023.
- On 14 August 2023, NTGAC/YMAC emailed Woodside acknowledging the meeting to be held 15 August 2023.
- On 15 August 2023, Woodside presented to the NTGAC about several EPs including an update on this EP. At the meeting Woodside:
 - Described the Environment Plan framework, referring to the Offshore Petroleum and Greenhouse Gas Storage Act (Environment) Regulations, NOPSEMA's role as regulator and general contents of Environment Plans.
 - Displayed a map of activities open for feedback to be discussed in the meeting and provided a list of other upcoming activities which will be open for consultation in 2023.
 - Provided an update and overview of the Scarborough Project activities. including the Marine Seismic Survey, Drilling and Completions, Seabed Intervention and Trunkline Installation and Subsea Installation EPs..
 - Described the types of vessels involved.
 - Described planned and unplanned environmental risks and impacts in accordance with tables provided in the Information Sheets for the activities, emphasising that unplanned risks are not expected to occur and are unlikely.
 - Displayed and spoke to the EMBA for each proposed activity, and the individual worst-case loss of containment scenarios identified, noting that they are all diesel fuel releases which would only be caused by vessel collisions.
 - Stated that Woodside wanted to understand how the functions, activities, or interests of NTGAC and the people it represents may be impacted by any of those activities.
 - Specifically asked the following:

- How could these activities impact your cultural values, interests, and activities does protecting the environment do enough to protect your cultural values?
- What are your concerns about the proposed activities and what do you think we should do about them?
- Is there anything you would like included in the EPs before submission?
- Is there anyone else Woodside should consult with about the activities?
- Advised that Woodside will continue to take feedback from NTGAC for the life of the EP.
- Provided personal contact details for further feedback. Woodside provided NOPSEMA contact details, should NTGAC desire to provide feedback directly to the regulator.
- At the 15 August 2023 meeting NTGAC/YMAC asked the following questions and gave the following feedback:
 - (1) YMAC asked about whale sightings and response.
 - Woodside responded that response depended on activity and controls, Marine Mammal Observers are implemented.
 - (1) NTGAC asked about ballast water discharges, Woodside responded by describing Invasive Marine Species requirements and controls.
- o **(5)** A proposed framework for consultation was discussed, involving Woodside funding a General Project Report to be written by an independent suitably qualified and experienced consultant, to be provided to NTGAC initially and then on to Woodside. The General Project Reports were proposed to outline the nature of the activities for each phase of the project and the risks associated with each of the relevant activities
- o Terms for ongoing engagement were discussed, including frequency, participation, and content in context of the proposed General Project Report
- (6) NTGAC Strategic Plan and relation to potential Woodside social investment opportunities were explored.
- NTGAC stated their consultation expectations (two-way dialogue preferred over one-way presentations and requested that consultation meetings cover whole projects or phases rather than single EP activities which is too time consuming).
- NTGAC requested that a table of EPs be submitted by December with a timeline.
- o **(4)** NTGAC stated that they did not consider that they had been consulted on other EP's based on engagement to date, stating that the information provided had been too technical.
- On 31 August 2023, Woodside emailed NGTAC/YMAC to provide a copy of the presentation from 15 August and communicating Woodside's understanding of next actions:
 - YMAC to provide a first draft of a consultation agreement.
 - YMAC to prepare the first draft of a general report.
 - Woodside to provide a list of upcoming activities.
 - o Agreed to continue discussions relating to key community focus areas highlighted by NTGAC.
 - o Feedback from NTGAC on the appropriateness of the information given by Woodside (too technical) to enable NTGAC to provide feedback.
 - The email also noted that Woodside considers consultation has commenced and is ongoing, however Woodside will work with NTGAC to develop the process further.

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- On 31 August 2023, NTGAC/YMAC emailed Woodside confirming they would respond shortly to the outcomes as assessed by Woodside and requesting response to queries in relation to another activity.
- On 1 September 2023, Woodside emailed NGTAC/YMAC, acknowledging information requested would be provided as soon as possible.
- On 14 September 2023, Woodside emailed NTGAC advising of the planned start date for the activity, and once again requesting if NTGAC is aware of any other people with whom Woodside should consult, and if there is any information NTGAC wish to provide on cultural values. The email requested that information be distributed to members or individuals who may be interested. It requested this information prior to 28 September 2023, but reiterated that Woodside will take feedback after the commencement of the activity as part of ongoing consultation. The Summary Information Sheet for this activity was attached. No response was received to this email.

Woodside will continue to pursue an ongoing two-way relationship with NTGAC under the Proposed Program of Ongoing Engagement with Traditional Custodians

Environment Plan Controls Summary of Feedback, Objection or Woodside Energy's Assessment of Merits of Feedback, Objection Claim or Claim and its Response (1) Existing controls considered sufficient, as described (1) During face-to-face engagements (1) Woodside responded to NTGAC's requests for further information in Section 6. on 16 February 2023 and 15 during face-to-face engagements in which they were raised, and no August 2023 related to this activity further information was requested on these topics. (2) Woodside updated Section 4.9.1 to reflect NTGAC's and others, the NTGAC requested interests and potential cultural values, including whales further information on topics related (2) Woodside noted NTGAC's interest in whales and whale sharks to. and whale sharks, and assessed potential impact on to this proposed activity which was these, including controls, in Section 6.10. responded to during the meetings: (3) Not required (3) Woodside funded YMAC's environmental scientist to attend two How EMBA's are developed. face-to-face meetings to support consultation and funded a YMAC (4) Not required lawyer to attend the August meeting with NTGAC. No feedback Ballast water discharges (5) (6) Woodside is implementing a program to actively was received from this activity. support Traditional Custodians' capacity for ongoing Whale sightings and response engagement and consultation on environment plans. (4) Woodside does not agree with NTGAC's claim that it has not yet referenced as PS 14.2.1 in this EP. This includes (2) NTGAC have expressed a general been consulted on the activity, or that information provided has continued engagement regarding NTGAC's proposed been too technical. Woodside considers regulation 11A interest in whales and whale Consultation Framework which will be applied to ongoing sharks. Woodside discussed consultation is complete and closed. Woodside met with NTGAC consultation, and potential support for their Strategic Plan. controls protecting whales and nominated representatives, at location of NTGAC's choice on 16 This is described further in the Program of Ongoing whale sharks from an ecological Feb and 15 Aug 2023 for multiple hour sessions where the activity Engagement with Traditional Custodians, Appendix J was described face to face by Woodside project representatives, perspective during meetings in which they were raised, and no subject matter experts and First Nations relations advisers (see further feedback or comment was section 5 for approach). This included specifically developed "plain English" material developed by First Nations personnel in received on these topics. collaboration with technical experts, maps, pictures and a short video visually communicating the pipelay process. During the

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- (3) NTGAC requested funding for YMAC's in-house environmental scientist.
- (4) NTGAC claimed that they have not been consulted about the activity to date, stating that they could not provide information on cultural values because the information provided has been too technical and that timeframes were not sufficient.
- (5) NTGAC are developing the first draft of a Consultation Agreement, and General Report. The proposal for the General Report is that it would outline the nature of the activities for each phase of the project and the risks associated with each of the relevant activities. Woodside are awaiting receipt of the initial draft of the General Report.
- (6) NTGAC are interested in exploring social investment opportunities with Woodside which may support NTGAC's Strategic Plan.

- meeting, NTGAC and YMAC representatives were encouraged to control the pace of the engagement and seek clarification. NTGAC and YMAC asked questions about the activity (see point 1) which indicates that material was engaged with. Woodside has also funded YMAC's in-house environmental scientist to support consultation. Woodside has addressed and responded to NTGAC over 9 months, demonstrating a "reasonable period" of consultation.
- (5) Separate from consultation under Reg 11A for this activity, Woodside will establish a Consultation Agreement with NTGAC. The Consultation Agreement and General Report/s would be used to frame ongoing consultation to occur as part of Woodside's commitment to post Reg 11A consultation. Sufficient information to allow informed assessment has already been provided by other means, including summary sheets developed by Indigenous staff, multiple face to face meetings with appropriate material (pictures, maps, videos) and project attendance allowing opportunity to ask questions and seek further understanding, and agreement to fund NTGAC/YMAC environmental scientist who was also present at the meetings.

Woodside engages in ongoing consultation throughout the life of an EP. Should feedback be received after the EP has been accepted (including any relevant new information on cultural values), it will be assessed and, where appropriate, Woodside will apply its Management of Change and Revision process (see **Section 7.8.1**).

(6) Woodside is continuing to work with NTGAC regarding social investment opportunities. Woodside has assessed that the Framework for Ongoing Consultation with NTGAC is an effective mechanism for exploring opportunities for alignment with NTGAC's Strategic Plan

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Malgana Aboriginal Corporation

Malgana is established under the Native Title Act 1993 by the Malgana people to represent the Malgana people (defined broadly by reference to descent from the set of ancestors who were known to have a continuous and unbroken connection as the Traditional Custodians at the time of European colonisation) and represent their communal interests including, among other things, management and protection of cultural values.

Woodside has discharged its obligations for consultation under Regulation 11A(1) and consultation with Malgana for the purpose of 11A(1) is complete. Sufficient information and a reasonable period have been provided, as described in Section 5.5 of the EP. Specifically:

Sufficient Information:

- Woodside Sought direction on Malgana's preferred method of consultation. This resulted in two face-to-face meetings being coordinated at location of Malgana 's choosing, with Malgana nominated representatives. These meetings included Woodside presenting information in a format and style that was readily accessible and appropriate.
- Provided Consultation Information Sheet and Consultation Summary Sheets developed by Indigenous staff to Malgana. These set out details of the proposed activity, the location of the activity, the timing of the activity as well as the potential risks and impacts of the activity with controls in a digestible, plain English format
- Articulated planned and unplanned environmental risks and impacts, with proposed controls.
- Confirmed the purpose of consultation and set out in detail what is being sought through consultation.
- Asked for the consultation and information sheets to be distributed to members and individuals.
- Woodside has provided NOPSEMA's Brochure "Consultation on offshore petroleum environment plans" and Guideline "Guideline: Consultation in the course of preparing an environment plan
- Provided response to questions asked about the activity through consultation. Through these questions, Malgana have displayed an understanding of the activities under this Environment Plan as well as the broader Scarborough Project.
- Advised that Malgana can request that particular information provided in the consultation not be published (to align with 11A(2)(4))

Reasonable Period:

- Woodside published advertisements in national, state, and relevant local newspapers including The Australian, The West Australian, Pilbara News (October 2022 and January 2023), Midwest Times, Northwest Telegraph and Geraldton Guardian (January 2023) advising of the proposed activities and requesting comments or feedback.
- Woodside has addressed and responded to Malgana over 9 months, demonstrating a "reasonable period" of consultation.

Woodside asked Malgana if it was aware of any other Traditional Custodian groups or individuals with whom Woodside should consult. None were identified.

Woodside has provided a reasonable opportunity for input since January 2023 and a genuine two-way dialogue has occurred via meetings and written exchanges to further understand the environment in which the activity will take place. Malgana has engaged with the detail of the activity asking related questions. The details of these engagements are described in the consultation summary below.

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Woodside engages in ongoing consultation, beyond that required by Regulation 11A, throughout the life of an EP. Should feedback be received after the EP has been accepted (including any relevant new information on cultural values), it will be assessed and, where appropriate, Woodside will apply its Management of Change and Revision process (see Section 7.8.1 of the EP).

Woodside considers the measures and controls described in this EP address the potential impact from the proposed activity on Malgana functions, interests or activities.

Summary of information provided and record of consultation:

- On 20 January 2023, Woodside emailed Malgana advising of the proposed activity (Appendix F, reference 1.112) and provided a simplified Consultation Information
 Sheet (including a link to the detailed information sheet on Woodside's website) as well as a summary overview fact sheet. The email requested information on the
 interests that Malgana and its members may have within the EMBA, information on how Malgana would like to engage, and requested that Malgana provide
 information to members as required.
- On 1 February 2023, Woodside phoned and left a voice message and sent an email to Malgana, to follow up on the information provided (Appendix F, Reference 1.134) and information sought.
- On 6 February 2023, the Malgana CEO emailed Woodside to advise they were discussing the consultation information with the Malgana Board at the next meeting.
- On 10 February 2023, Woodside emailed Malgana to request any feedback from its Board of Directors.
- On 21 February 2023, Woodside followed up with Malgana via email to request any feedback from its Board of Directors.
- On 22 February 2023, Malgana emailed Woodside regarding scheduling an opportunity for Woodside to present at an upcoming Malgana Board Meeting.
- On 7 March 2023, Malgana emailed Woodside:
- Malgana provided proposed dates (3-4 April 2023) for a meeting.
- Malgana requested if one or two hours was suitable for Woodside's presentation and discussion.
- (3) Malgana asked Woodside to provide financial support for consultation meeting costs
- On 9 March 2023, Woodside emailed Malgana:
- Woodside confirmed the proposed meeting dates and logistics.
- Woodside requested a half day to present on the EPs on which it was seeking feedback.
- (3) Woodside agreed to pay meeting costs
- On 19 March 2023, Woodside emailed Malgana to propose an alternate date for the meeting so that required project personnel would be available.
- On 22 March 2023, Malgana emailed Woodside to agree the proposed date and coordinate arrangements for the meeting.
- On 23 March 2023, Woodside emailed Malgana to confirm arrangements for the meetin, and agree a budget proposal.
- On 23 March 2023, Malgana emailed with an invoice for 50% advance payment of meeting budget.
- On 3 April 2023, Woodside met with Malgana Aboriginal Corporation (Malgana) representatives in Perth:

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- Woodside described the Environment Plan framework, referring to the Offshore Petroleum and Greenhouse Gas Storage Act (Environment) Regulations, NOPSEMA's
 role as regulator and general contents of Environment Plans.
- (1) Malgana asked what arrangements are in place for earthquake tremors, Woodside responded that facilities and equipment are designed to withstand seismic activity which could be expected.
- Woodside encouraged Malgana to raise anything they feel is missing in the information provided during the meeting, or any issues or concerns.
- (2) Malgana stated that the Shark Bay environment is unique and has the largest living organism in the world. It also contains stromatolites and microbial mats which are among the oldest living organisms in the world. Stochastic modelling of the worst-case credible spill scenario for the petroleum activity indicates that these receptors would not be contacted.
- Woodside displayed a map of activities open for feedback to be discussed in the meeting and provided a list of other upcoming activities which will be open for consultation in 2023.
- (4) Malgana expressed that they are very interested in genuine relationship and partnership building with long term structure. Woodside responded that we are very open to this and look forward to working together.
- Woodside described how EMBAs are prepared and their relevance to consultation.
- (1) Malgana stated that they believe there are flaws in modelling related to Shark Bay hydrodynamics. Woodside responded that nearshore processes may not be very accurate in the model, but we plan for spill response in Shark Bay regardless. Woodside committed to providing further detail on how Shark Bay hydrodynamics is resolved in the model to Malgana
- Woodside provided an overview of the broader Scarborough Project and overview of activities.
- Woodside provided an overview of each proposed Scarborough activity (including Seismic Survey, Drilling and Completions, Seabed Intervention and Trunkline
 Installation and Subsea Infrastructure Installation) and a summary of both planned and unplanned impacts and associated controls.
- Woodside described the subsea infrastructure installation proposed activities. Flowlines link up and collect the gas, bringing it back to the floating production facility.
- Woodside described the proposed installation of gravimetry structures. Approximately 200 of these are placed from a vessel. Woodside played a video showing subsea infrastructure and gravimetry installation.
- Woodside described planned and unplanned environmental risks and impacts in accordance with tables provided in the Information Sheets for the activities, emphasising that unplanned risks are not expected to occur and are unlikely.
- The EMBA for each proposed Scarborough activity was displayed, and the individual worst-case loss of containment scenarios identified, noting that they are all diesel fuel releases which would only be caused by vessel collisions.
- Woodside noted this concluded the Scarborough section of the meeting and called for any further questions or feedback. None were received.
- Woodside provided personal contact details for further feedback.
- Woodside provided NOPSEMA contact details, should Malgana desire to provide feedback directly to the regulator.
- (1 & 4) On 20 April 2023, Malgana Aboriginal Corporation emailed Woodside:
- Malgana thanked Woodside for the consultation meeting, noting that the Board enjoyed the informative and detailed information provided.
- Malgana thanked Woodside for its proactive response to ensure Malgana country is sufficiently protected and ready in case of unplanned events.
- Malgana noted discussion points from the meeting:

- (4) Agreement that an ongoing partnership should be formed.
- (2) Emphasised the sensitivity and importance of Shark Bay culturally and environmentally.
- (1) Indicated concerns regarding hydrodynamic modelling and reflection of flow into the bay.
- Discussion on how feedback helps Woodside improve Environment Plans
- Malgana requested:
- (1) Woodside to clarify how hydrodynamics of Shark Bay are resolved in modelling.
- Provision of Malgana rangers with training and equipment for incident response
- A Shark Bay response team with emergency response plans and exercises
- A communication strategy for emergencies
- (1) Information on how Woodside can support Malgana rangers and people.
- A timeframe for a follow up meeting to discuss these points.
- Guidance on the format of desired feedback.
- On 18 May 2023, Woodside emailed Malgana:
- Woodside thanked Malgana for the consultation meeting and its correspondence of 20 April 2023, and their careful consideration of the matters presented.
- Woodside acknowledged that Malgana have interests in the EMBA and noted that they want to ensure impacts are as minimal as reasonably practicable.
- A high-level overview of presented topics was provided.
- Woodside provided responses to the requests made in Malgana correspondence of 20 April 2023:
- Woodside's hydrocarbon spill modelling is provided by specialist consultants using global best practice techniques and software. Woodside has requested further information from the consultants on how Shark Bay hydrodynamics are resolved in the model and will communicate to Malgana once received.
- (1) Woodside is investigating options for Indigenous Ranger hydrocarbon spill response training and capability. Woodside intends to work on this collaboratively with spill response agencies, Traditional Owners and industry.
- Existing emergency response arrangements that help protect the environment would trigger notification of Traditional Owners and other relevant stakeholders based on the spill's trajectory at the time of the spill.
- Woodside proposed another meeting to discuss opportunities for rangers and Indigenous people, noting that Woodside will contact Malgana by phone to arrange details.
- (3) Woodside is able to receive feedback in any format of Malgana's choice. Woodside offered to provide resources to Malgana to obtain expert advice on proposed activities for which Malgana is a relevant person, beyond that which has already been received in the course of preparing the EP. A suggested list of experienced and reputable industry environmental consultants was provided. To date, this offer has not been taken up.
- Woodside notified that the feedback and the letter from Malgana would be included in Environment Plans that will be submitted to NOPSEMA.
- Woodside provided responses to questions noted from the meeting that were not related to the proposed activity.
- On 19 July 2023, Woodside emailed Malgana NOPSEMA's Consultation Guidelines, Consultation Brochure, and Draft Policy for Managing Gender-Restricted Information. This email also reiterated Woodside's request that Malgana advise Woodside of any other Traditional Custodian groups or individuals with whom Woodside should consult. No response was received to this email.
- (4) On 26 July 2023, Woodside emailed Malgana Woodside's planned Program of Ongoing Engagement with Traditional Custodians.

- (1 & 2) On 1 August 2023, Woodside emailed Malgana with follow up information that Malgana requested about hydrocarbon spill modelling which came out of the meeting of 4 April 2023 with Malgana. The information showed that Shark Bay hydrodynamics are adequately resolved in the model, as tidal flushing can be observed. This reinforces that the indication from modelling that the EMBA for the activity does not enter Shark Bay is appropriate.
- (3) On 1 August 2023, Malgana emailed Woodside with thanks for the information and noting that Malgana was looking to get an environmental consultant to provide advice to their Board.
- (3) On 3 August 2023, Woodside emailed Malgana notifying about another activity and requesting to meet to discuss matters, including the issue raised by Malgana about getting an environmental consultant to give advice to their Board. Woodside also said they were available to catch up over the phone over the next coming days to discuss the above matters and for Malgana to reply with a preferred time. Malgana have not yet responded.
- On 14 September 2023, Woodside emailed Malgana advising of the planned start date for the activity, and once again requesting if Malgana was aware of any other people with whom Woodside should consult, and whether there was any information Malgana wished to provide on cultural values. The email requested that information be distributed to members or individuals who may be interested. It requested this information prior to 28 September 2023 and reiterating that Woodside will take feedback after the commencement of the activity as part of ongoing consultation. The Summary Information Sheet for this activity (Appndix F, reference 1.107) was attached.

Summary of Feedback, Objection or **Woodside Energy's Assessment of Merits of Feedback, Objection Environment Plan Controls** Claim or Claim and its Response (1) During face-to-face engagements (1) Woodside responded to Malgana's requests for further information (1) Existing controls considered sufficient, as described related to this activity and others, during face-to-face engagements and follow up emails, and no in Section 6. Malgana requested further further information was requested on these topics. information on topics related to this (2) Woodside updated **Section 4.9** to record Malgana's proposed activity which were (2) Woodside noted Malgana's interest in sea grasses, stromatolites interests and potential cultural values, including sea and microbial mats. Environmental sensitivities that Malgana responded to during the meeting grasses, stromatolites and microbial mats and and in correspondence shortly Aboriginal Corporation noted as having particular interest within assessed potential impact on these, including Shark Bay are not predicted to be impacted by the worst-case afterwards: controls. in Section 6.10. credible scenario, as shown in Figure 4-1. Ability for infrastructure to withstand seismic activity. (3) & (4) Woodside is implementing a program to actively (3) Woodside supports ongoing engagement and have responded to Spill response. arrangements. support Traditional Custodians' capacity for ongoing Malgana's advice about the limitations on their resources. Hydrodynamic modelling and engagement and consultation on environment plans, Woodside has offered to support Malgana in correspondence sent reflection of flow into the bay. referenced as **PS 14.2.1** in this EP. This includes May and August 2023, including support for environmental Ranger training for incident addressing Malgana's resourcing issue for ongoing expertise supplying names of organisations that Malgana may want response. consultation via a Framework Agreement. to consider to conduct the work, however these offers have not been taken up. (2) Malgana indicated that they have particular interest in sea grasses, (4) Woodside has assessed the Program of Ongoing Engagement with stromatolites, and microbial mats. Traditional Custodians will support ongoing consultation with Malgana also identified a concern Malgana and address appropriate support for resourcing, separate regarding spills into Shark Bay and

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hydrodynamic modelling.

- (3) Malgana noted that their funding is restricted for these types of engagement and requested funding support, including an environmental consultant to advise the Board.
- (4) Malgana expressed a desire for ongoing engagement and partnership.

from consultation under Reg 11A, Sufficient information to allow informed assessment has already been provided by other means, including Consultation Information Sheets and a Summary Information Sheet developed by Indigenous staff members, and a face to face meeting on 04 April 2023 for which Woodside met Malgana's costs, with appropriate material (pictures, maps, videos) and project attendance allowing opportunity to ask questions and seek further understanding.

Woodside engages in ongoing consultation throughout the life of an EP. Should feedback be received after the EP has been accepted (including any relevant new information on cultural values), it will be assessed and, where appropriate, Woodside will apply its Management of Change and Revision process (see Section 7.8.1).

Nanda Aboriginal Corporation

Nanda is established under the Native Title Act 1993 by the Nanda people to represent the Nanda people (defined broadly by reference to descent from the set of ancestors who were known to have a continuous and unbroken connection as the Traditional Custodians at the time of European colonisation) and represent their communal interests including, among other things, management and protection of cultural values.

Woodside has discharged its obligations for consultation under Regulation 11A(1) and consultation with Nanda for the purpose of 11A(1) is complete. Sufficient information and a reasonable period have been provided, as described in Section 5.5 of the EP. Specifically:

- Sufficient Information:
- Woodside Sought direction on Nanda's preferred method of consultation. This resulted in two face-to-face meetings being coordinated at location of Nanda's choosing, with Nanda nominated representatives. These meetings included Woodside presenting information in a format and style that was readily accessible and appropriate.
- Provided Consultation Information Sheet and Consultation Summary Sheets developed by Indigenous staff to Nanda. These set out details of the proposed activity, the location of the activity, the timing of the activity as well as the potential risks and impacts of the activity with controls in a digestible, plain English format
- Articulated planned and unplanned environmental risks and impacts, with proposed controls.
- Confirmed the purpose of consultation and set out in detail what is being sought through consultation.
- Asked for the consultation and information sheets to be distributed to members and individuals.
- Woodside has provided NOPSEMA's Brochure "Consultation on offshore petroleum environment plans" and Guideline "Guideline: Consultation in the course of preparing an environment plan
- Provided response to questions asked about the activity through consultation. Through these questions, Nanda have displayed an understanding of the activities under this Environment Plan as well as the broader Scarborough Project.

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• Advised that Nanda can request that particular information provided in the consultation not be published (to align with 11A(2)(4))

Reasonable Period:

- Woodside published advertisements in national, state, and relevant local newspapers including The Australian, The West Australian, Pilbara News (October 2022 and January 2023), Midwest Times, Northwest Telegraph and Geraldton Guardian (January 2023) advising of the proposed activities and requesting comments or feedback.
- Woodside has addressed and responded to Nanda over 9 months, demonstrating a "reasonable period" of consultation.

Woodside asked Nanda if it was aware of any other Traditional Custodian groups or individuals with whom Woodside should consult. None were identified.

Woodside has provided a reasonable opportunity for input since January 2023 and a genuine two-way dialogue has occurred via meetings and written exchanges to further understand the environment in which the activity will take place. Nanda has engaged with the detail of the activity asking related questions. The details of these engagements are described in the consultation summary below.

Woodside engages in ongoing consultation, beyond that required by Regulation 11A, throughout the life of an EP. Should feedback be received after the EP has been accepted (including any relevant new information on cultural values), it will be assessed and, where appropriate, Woodside will apply its Management of Change and Revision process (see Section 7.8.1 of the EP).

Woodside considers the measures and controls described in this EP address the potential impact from the proposed activity on Nanda's functions, interests or activities.

Summary of information provided and record of consultation:

YMAC is the Native Title Representative Body (NTRB) for the Yamatji and Pilbara regions, which includes Nanda. NTRBs exist to provide assistance to native title claimants and holders in regard to their native title rights. No native title has been recognised over the Project Area, however YMAC is identified in the North West Marine Parks Network Management Plan as the contact for identifying cultural values in nearby Australian Marine Parks.

- On 7 July 2022, Woodside met with YMAC to request advice on the appropriate cultural authorities for the Scarborough project area, including but not limited to the scope of this EP and nearby marine parks:
- Woodside described the Scarborough Project and its footprint and gave an overview of indigenous parties consulted.
- Woodside noted that YMAC was identified in the North-West Marine Parks Network Management Plan as contact for identifying cultural values in nearby Australian Marine Parks. Woodside sought to understand if cultural values of the nearby Gascoyne Marine Park may extend into the offshore Scarborough project areas.
- Woodside requested advice on how best (in addition to work completed) to identify any cultural values in the Marine Parks and the broader project footprint.
- YMAC requested Woodside provide the relevant detailed information relating to the location and extent of the project.
- YMAC directed Woodside that consultation related to Scarborough Project would be best directed to Murujuga Aboriginal Corporation and Ngarluma Aboriginal Corporation
- YMAC did not direct Woodside to engage with Nanda, however Nanda was identified as a relevant person under methodology outlined in Section 5 and YMAC is listed as Nanda preferred contact on the ORIC website and is therefore Woodside's primary contact when engaging Nanda.
- On 20 January 2023, Woodside emailed Nanda via the representative body Yamatji Marlpa Aboriginal Corporation (YMAC) advising of the proposed activity (Appendix F, reference 1.113) and provided a simplified Consultation Information Sheet (including a link to the detailed information sheet on Woodside's website) as

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well as a summary overview fact sheet, asking what interests Nanda and its members may have within the EMBA and whether they required any information to prepare for a meeting.

- On 1 February 2023, Woodside emailed Nanda /YMAC to follow up on the information provided (Appendix F, reference 1.131) and information sought. Woodside advised it would like to be able to speak with the relevant representative to ensure that Nanda are receiving the relevant information and seek an understanding of whether it would like to discuss any of the information in more detail.
- On 3 February 2023, Nanda/YMAC emailed Woodside:
- Nanda noted that it currently considers itself a 'relevant person' and would welcome consultation with Woodside.
- Nanda noted the information sheets provided by Woodside and that the activities are not described in any detail and are also of a highly technical nature. The activities, and their impacts, are not familiar to the Nanda Board.
- Nanda advised that to ensure Nanda Aboriginal Corporation is fully informed, and able to engage in meaningful consultation:
- Woodside attend a half-day (or full day, if that is Woodside's preference), workshop with Nanda to explain to the Nanda Board the proposed activities and the EP process; and
- if, after the presentation Nanda Aboriginal Corporation still considers itself a relevant person, provide funds to Nanda Aboriginal Corporation:
- (3) to engage an expert(s) (such as environmental scientist and/or marine scientist) to advise the Nanda Board about the impact of the proposed activities; and
- draft an appropriate response for Woodside to include in the EP.
- Nanda proposed that as next steps it prepares a budget and look to arrange a date for Woodside to meet with the Board.
- (4) Nanda noted that this initial meeting does not in itself constitute 'consultation' on the EP as contemplated by the Guide or other applicable law.
- On 10 February 2023, Woodside emailed Nanda/YMAC:
- Woodside advised that it welcomed the opportunity to meet with Nanda to establish a relationship and requested a budget estimate and Nanda's preferred meeting date(s) at its earliest convenience.
- (4) Woodside advised it would be pleased to meet at a location that is suitable to Nanda and in funding this meeting would seek to receive some initial feedback from Nanda about their views of the proposed activities.
- (3) Woodside advised it considers requests to fund independent experts on a case-by-case basis. Woodside noted an expert would need to be agreed between Nanda and Woodside and be an expert in oil and gas environmental management in the marine context.
- Woodside noted it plans to send Nanda consultation information on a further three EPs shortly for Nanda's consideration and there will be more scheduled over the course of the year. Woodside will be sending separate emails for each of these EPs.
- Woodside requested that in anticipation of Woodside and Nanda meeting, if there is an opportunity for Woodside to meet with YMAC / Nanda representatives prior to the meeting, so that Woodside can best prepare, it would be most grateful for that opportunity.
- (1) On 7 March 2023, Nanda/YMAC emailed Woodside to advise it would revert back shortly with a cost estimate and proposed dates.
- On 13 March 2023, Woodside met with Nanda's legal representatives to discuss consultation on the Scarborough Project, preferred method and locality of
 consultation meetings, and to note that Woodside will assist groups with funding to hold meetings on an agreed basis.
- On 17 March 2023, Woodside emailed Nanda/YMAC following up for a date, cost estimate and logistical details for a meeting.

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- Woodside asked whether a date and budget has been confirmed for a meeting with Nanda, the email also notified Nanda of additional EPs for consideration by the Nanda Board.
- On 23 March 2023, Nanda/YMAC responded inviting Woodside to meet the Board of Directors on 19 April 2023 in Geraldton.
- On 23 March 2023, Woodside emailed Nanda/YMAC accepting the invitation and requesting confirmation of location.
- On 24 March 2023, Nanda/YMAC emailed Woodside confirming location of meeting in Geraldton.
- (3) On 29 March 2023, Nanda/YMAC emailed regarding budget details regarding the meeting.
- (3) On 5 April 2023, Woodside emailed Nanda/YMAC and accepted the proposed budget.
- On 19 April 2023, Woodside met with directors and other representatives from Nanda Aboriginal Corporation in Geraldton:
- Woodside provided background on Woodside and explained the geographical location of the proposed activity relevant to Nanda.
- Woodside described the Environment Plan framework, referring to the Offshore Petroleum and Greenhouse Gas Storage Act (Environment) Regulations, NOPSEMA's role as regulator and general contents of Environment Plans.
- (1) Nanda asked whether Woodside has ever had an oil spill. Woodside said that they have had small spills but nothing that had lasting impact, and while worst case spills would be discussed today, they had not had anything close to this scale happen before.
- (1) Nanda asked whether everything we put in the water will be removed, Woodside responded that this is correct except for instances where removing it would cause worse environmental damage such as buried anchors.
- (1) Nanda asked whether our activities are resistant to cyclones, Woodside responded that while some of our assets would continue operating the execution activities such as seabed intervention and pipelay would be moved away and made safe.
- (1) Nanda asked about control measures to avoid impacts to migratory whales, Woodside described control measures intended to be in place for the activity.
- (1) Nanda asked for detail on oil spill response particularly shoreline impact, Woodside described hydrocarbon spill preparedness, emergency planning and the various response techniques.
- Woodside provided an overview of the broader Scarborough Project and overview of activities.
- Woodside provided an overview of each proposed Scarborough activity (including Seismic Survey, Drilling and Completions, Seabed Intervention and Trunkline Installation and Subsea Infrastructure Installation) and a summary of both planned and unplanned impacts and associated controls
- Woodside described the proposed seabed installation activities, using visual aids and a video:
- Nanda asked about decommissioning concrete gravimetry structures, Woodside responded that the law is base case removal of everything and the gravimetry structures are designed to be removed at the end of their useful life.
- Woodside described the planned and unplanned risks/impacts and discussed the EMBA for the activity:
- (1) Nanda asked about greenhouse emission reduction activities, Woodside responded that for this activity it is mainly to do with minimising vessel fuel and using more efficient vessels.
- Woodside noted this concluded the Scarborough section of the meeting and called for any further questions or feedback. None were received.
- Woodside provided personal contact details for further feedback.

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- (3 and 4) On 19 April 2023, Woodside emailed YMAC/Nanda and NTGAC following up with information offered at the meeting of 13 March 2023 with NTGAC; management of emissions, organisations that may provide independent expertise and re-iterating they would like to regularly meet with YMAC, Nanda and NTGAC. Woodside made note that PBCs may be interested in Woodside's ongoing support and capacity building by way of social investments.
- (1) On 18 May 2023, Woodside emailed Nanda and responded to their requests from the 19 April 2023 meeting:
- Woodside thanked Nanda for the consultation meeting and their careful consideration of the matters presented.
- Woodside acknowledged and respected that Nanda have interests in the EMBA and noted that Woodside wants to ensure impacts are as minimal as reasonably practicable.
- A high-level overview of presented topics was provided.
- (1) In response to a question raised at the meeting, Woodside confirmed it makes the final report re findings of its water quality monitoring program related to the Scarborough Seabed Intervention and Trunkline Installation publicly available.
- Woodside notified that the feedback and the letter would be included in Environment Plans that will be submitted to NOPSEMA.
- (1) Woodside provided responses to questions noted from the meeting that were not related to the proposed activity.
- (4) Noted that during the meeting Nanda expressed a desire for ongoing engagement and partnership, Woodside noted acknowledged they are committed to ongoing consultation engagement beyond that required for the submission of EPs.
- On 21 July 2023 Woodside emailed Nanda NOPSEMA's Consultation Guidelines, Consultation Brochure, and Draft Policy for Managing Gender-Restricted Information. This email also reiterated Woodside's request that Nanda advise Woodside of any other Traditional Custodian groups or individuals with whom Woodside should consult.
- On 21 July 2023, Nanda sent an automatic email response with a return date of 31 July 2023, no further email correspondence has been received to date.
- (4) On 25 July 2023, Woodside emailed Nanda/YMAC Woodside's planned Program of Ongoing Engagement with Traditional Custodians.
- On 14 September 2023, Woodside emailed Nanda advising of the planned start date for the activity, and once again requesting if Nanda was aware of any other people with whom Woodside should consult, and if there was any information Nanda wish to provide on cultural values. The email requested that information be distributed to members or individuals who may be interested. It requested this information prior to 28 September 2023. It also asked Nanda to provide the Consultation Fact Sheets and Summary Information Sheets (Appendix F, reference 1.106 and 1.107) to members or individuals who may be interested. No response was received to this email.

Summary of Feedback, Objection or Claim Woodside Energy's Assessment of Merits of Feedback, Objection or Claim and its Response	3
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- (1) During face-to-face engagements related to this activity and others, Nanda requested further information on topics related to this proposed activity which was responded to during the meeting and in correspondence shortly afterwards:
- Decommissioning
- Hydrocarbon spill response, potential shoreline impact and emergency planning.
- Impacts to whales.
- Spill response arrangements.
- Whether all infrastructure is eventually removed at decommissioning.
- Cyclone resistance of assets
- Greenhouse emission.
- (2) Nanda expressed a general interest in whales. Woodside discussed control measures to protect migratory whales from an ecological perspective during the meeting in which the issue was raised. No further feedback or comment was received on this topic.
- (3) Nanda requested funding for meetings and to fund an expert environmental scientist.
- (4) Nanda have expressed interest in ongoing engagement and capacity building and investment opportunities.

- (1) Woodside responded to Nanda's requests for further information during face-to-face engagements in which they were raised, and no further information was requested on these topics.
- (2) Woodside noted Nanda's interest in whales.
- (3) Woodside accepted the budget for the 19 April 2023 meeting and on a request for environmental expertise said they fund other requests on a case-by-case basis. Woodside provided the names of organisations Nanda may wish to consider for environmental expertise. No further request for funding has been received by Woodside.
- (4) Woodside has assessed the Program of Ongoing Engagement with Traditional Custodians will support ongoing consultation with Nanda and address appropriate support for resourcing, separate from consultation under Reg 11A, Sufficient information to allow informed assessment has already been provided by other means, including Consultation Information Sheets and a Summary Information Sheet developed by Indigenous staff members, and a face to face meeting on 19 April 2023 for which Woodside met Nanda's costs, with appropriate material (pictures, maps, videos) and project attendance allowing opportunity to ask questions and seek further understanding.

Woodside engages in ongoing consultation throughout the life of an EP. Should feedback be received after the EP has been accepted (including any relevant new information on cultural values), it will be assessed and, where appropriate, Woodside will apply its Management of Change and Revision process (see Section 7.8.1).

- Existing controls considered sufficient, as described in Section 6.
- (2) Woodside updated Section 4.9.1 to reflect Nanda's interests and potential cultural values, including whales, and assessed potential impact on these, including controls, in Section 6.10.
- (3) Note required
- (4) Woodside is implementing a program to actively support Traditional Custodians' capacity for ongoing engagement and consultation on environment plans referenced as PS 14.2.1 in this EP.

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Self-identified First Nations Groups

Ngarluma Yindjibarndi Foundation Limited (NYFL)

NYFL was created to act as Trustee for the Trust under the Northwest Shelf Agreement 1998 struck between the Ngarluma and Yindjibarndi registered native title claimants, the NWS JVs and Woodside, prior to the resolution of the Ngarluma and Yindjibarndi native title claim. Its purpose is to carry on the business of enterprise development, investment and social welfare.

In 1999 the Ngarluma and Yindjibarndi native title claim was settled with the Federal Court appointing, at the request of the common law native title holders, the Ngarluma Aboriginal Corporation (NAC) as PBC to represent the communal interests of the Ngarluma people and the Yindjibarndi Aboriginal Corporation (YAC) as PBC to represent the communal interests of the Yindjibarndi people. Woodside consulted both NAC and YAC as relevant persons in the course of preparing this EP.

NYFL self-identified and has advised it is relevant for this EP.

Woodside has discharged its obligations for consultation under Regulation 11A(1) and consultation with NYFL for the purpose of 11A(1) is complete. Sufficient information and a reasonable period have been provided, as described in Section 5.5 of the EP. Specifically:

Sufficient Information:

- Sought direction on NYFL's preferred method of consultation. NYFL requested consultation material suitable for Traditional Custodian audience, which was developed and provided. NYFL and Woodside initially agreed to hold a face-to-face consultation meeting at location of NYFL's choosing with NYFL nominated representatives, however NYFL chose to postpone the engagement for an undefined time.
- Provided Consultation Information Sheet and Consultation Summary Sheets developed by Indigenous staff to NYFL. These set out details of the proposed activity, the location of the activity, the timing of the activity as well as the potential risks and impacts of the activity with controls in a digestible, plain English format
- Articulated planned and unplanned environmental risks and impacts, with proposed controls.
- Confirmed purpose of consultation and set out in detail what is being sought through consultation.
- Asked for the consultation and information sheets to be distributed to members and individuals.
- Woodside has provided NOPSEMA's Brochure "Consultation on offshore petroleum environment plans" and Guideline "Guideline: Consultation in the course of preparing an environment plan

Reasonable Period:

- Woodside published advertisements in a national, state, and relevant local newspapers including The Australian, The West Australian, Pilbara News (October 2022 and January 2023), Midwest Times, North West Telegraph and Geraldton Guardian (January 2023) advising of the proposed activities and requesting comments or feedback.
- Met with NYFL and described the activity in detail in September 2022
- Consultation information provided to NYFL on 27 January 2023 based on their function, interest, and activities.
- Woodside has addressed and responded to NYFL over 12 months, demonstrating a "reasonable period" of consultation.

Woodside asked NYFL it was aware of any other Traditional Custodian groups or individuals with whom Woodside should consult. None were identified.

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Woodside engages in ongoing consultation, beyond that required by Regulation 11A, throughout the life of an EP. Should feedback be received after the EP has been accepted (including any relevant new information on cultural values), it will be assessed and, where appropriate, Woodside will apply its Management of Change and Revision process (see Section 7.8.1 of the EP).

Woodside considers the measures and controls described in this EP address the potential impact from the proposed activity on NYFL functions, interests, or activities.

Woodside considers it has discharged its obligations for consultation under Regulation 11A(1). Sufficient time, information and opportunity has been provided as summarised below

Summary of information provided and record of consultation:

- On 23 September 2022, Woodside emailed NYFL advising of the proposed activity and provided a Consultation Information Sheet and Consultation FAQ (Appendix F, reference 1.52).
- On 26 September 2022, NYFL emailed Woodside and stated NYFL would like to understand more about the proposed activities and mitigations.
- On 27 September 2022, Woodside emailed and phoned NYFL seeking a time to meet. Woodside suggested it could then look to respond in detail in early October to
 give NYFL enough time to respond if there are further concerns.
- On 27 September 2022, NYFL emailed Woodside to schedule a meeting in Roebourne on Friday 30 September.
- On 30 September 2022 representatives of Woodside and NYFL met and talked through the activities in the EP in detail. NYFL explained that the current information sheets were difficult to understand. Woodside undertook to provide materials in plain English that were being developed.
- On 4 October 2022, NYFL emailed Woodside:
- NYFL thanked Woodside for taking the time to talk through ways in which complex information such as that which relates to EPs can be appropriately communicated to NYFL and its TO board and members.
- NYFL advised that as discussed, at present the language and communication approach in EPs, such as that sent to NYFL on 23 September 2022, is not appropriate for NYFL. As such NYFL cannot confidently say it is OK with the activity.
- (1) NYFL also thanked Woodside for communicating to the business that NYFL is a 'relevant person' for activity
- Between October 2022 and March 2023, while Woodside and NYFL have weekly communications on other matters, there was a hiatus on communication due to changes to activity scheduling and description of the EMBA.
- On 30 November 2022, Woodside and NYFL held the Woodside NYFL NWS quarterly relationship meeting which is resourced by Woodside to enable meaningful participation by Traditional Custodians. There was a separate discussion about holding a separate meeting for EPs generally.
- (2) On 14 February 2023, NYFL emailed Woodside to see if the accessible information for Traditional Custodians had been prepared.
- On 1 March 2023, Woodside and NYFL held the Woodside NYFL NWS quarterly relationship meeting which is resourced by Woodside to enable meaningful
 participation by Traditional Custodians. The meeting discussed Woodside and NYFL reviewing the NWS 1998 Agreement for renegotiation. There was a separate
 discussion about holding a separate meeting for EPs generally.

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- On 20 March 2023, Woodside emailed NYFL about the activity providing further information (Appendix F, reference 1.210), and provided a simplified Summary Information Sheet (developed with a Ngarluma Traditional Custodian for a Traditional Custodian audience) and including a link to the detailed information sheet on Woodside's website. The timeframes for consultation had been significantly extended.
- On 20 March 2023, NYFL emailed Woodside thanking them for the information and stating they would discuss the information with the Board and members.
- On 20 March 2023, Woodside emailed NYFL offering a meeting to present to the Board in relation to this activity and other activities.
- On 22 May 2023, Woodside emailed NYFL information in relation to an EP not related to this activity.
- (2) On 22 May 2023, the NYFL CEO replied saying that they were requesting information in an appropriate format for Traditional Custodians and saying that the language and approach was not appropriate for NYFL's members.
- On 24 May 2023, in response to the email on 22 May 2023, Woodside spoke to NYFL by phone, explained that the information sheets were developed with a Ngarluma Traditional Custodian but that the best way to understand the materials was to take Woodside up on our offer to present to NYFL. These presentations include images and the subject matter experts are on hand to answer questions. Presentations had been well received by other groups. Woodside had budget for consultation meetings and could provide support for the meetings to occur.
- On 8 June 2023, NYFL emailed Woodside about a number of matters including a request for "further information/culturally appropriate comms" for this activity.
- On 8 June 2023, Woodside reconfirmed previous offers to meet with NYFL in relation to the activity and other activities unrelated to this EP for the purpose face to face and consultation. Explained that these presentations have been well received from groups. Explained also that the summary information sheets provided were developed by Indigenous representatives for a Traditional Owner audience. Requested that if face to face consultation was not preferred by NYFL, whether they could provide some direction as to alternatives. Woodside reiterated they cover consultation costs to and can meet in Roebourne, assuming that is preferred.
- On 28 June 2023, Woodside emailed NYFL confirming a consultation date of 20 July and requesting NYFL send through a quote for costs.
- On 28 June 2023, NYFL responded saying they would hold off on committing to a date while they had a change to digest the outcomes of the NOPSEMA Summit.
- On 29 June 2023, Woodside emailed NYFL in relation to an activity unrelated to this activity and asking whether they wished to be consulted.
- On 29 June 2023, NYFL responded stating that they were waiting to agree to national framework for consultation between industry and First Nations to be resolved before they consult on Environment Plans. This email was referring to the NOPSEMA Summit.
- On 10 July 2023, Woodside emailed NYFL seeking clarity in relation to their request. Woodside stated they understood the outcomes of the NOPSEMA Summit were as recorded by the facilitator was communicated to all participants as:
 - o It was agreed that:
 - There is a need for a National Summit of Indigenous Groups and Traditional Owners to consult together and agree what they require and what their collective and individual concerns may be;

- Government (DISR) will assist by mapping and compiling a list of all traditional owner groups that should be invited to this Summit,
- o Kimberley Land Council and other PBCs will form a Steering Committee to draft the agenda for this Summit,
- APPEA will seek membership approval to facilitate by funding this Summit, and
- o The Summit will be independently facilitated.
- APPEA to further consult with their members in order to get some agreement on priorities and next steps for Industry.
- After the National Summit of Indigenous Groups, the first of a number of meetings will be held between a smaller representative Traditional Owners group and a smaller representative Industry group, the latter to be coordinated through APPEA; and
- There will be ongoing parallel consultations in relation to current EPs, which will continue in accordance with what is required by Reg 11(A)(1)(d) of the OPGGSA Environment Regulations.
- Woodside stated it is committed to supporting the National Summit of Traditional Owners and is committed to industry and Traditional Owners working together to agree consultation frameworks. Woodside noted, however, this will take time and necessarily must occur in parallel to ongoing consultation, with operators obliged to consult pursuant to Reg 11(A). Woodside also stated they were committing to a program of ongoing consultation for the life of the EP that would be happy to discuss that with NYFL.
- (3) On 10 July 2023, NYFL stated that they did not agree with the facilitators record of the NOPSEMA Summit, particularly that there will be parallel ongoing consultation in relation to current EPs prior to the proposed National Summit of Indigenous Groups and Traditional Owners.
- On 19 July 2023, Woodside emailed NYFL NOPSEMA's Consultation Guideline, Consultation Brochure, and Draft Policy for Managing Gender-Restricted Information. This email also requested that NYFL advise Woodside of any other Traditional Custodian groups or individuals with whom Woodside should consult. No response was received to this email.
- On 26 July 2023, Woodside emailed NYFL Woodside's planned Program of Ongoing Engagement with Traditional Custodians. noting it was a good start particularly with the inclusion of Traditional Owner feedback and indicating that assistance with resourcing and internal capacity would be required..
- On 26 July 2023, NYFL emailed Woodside in response to Woodside's planned Program of Ongoing Engagement with Traditional Custodians, including requesting resourcing to support consultation.
- On 2 August 2023, Woodside emailed NYFL regarding the acceptance of a different Scarborough EP with the same EMBA, asking for information in accordance with conditions of acceptance of the EP. It specifically asked whether NYFL is aware of any people, who in accordance with Indigenous tradition, may have spiritual or cultural connections to the environment that may be affected by the activity that have not yet been afforded the opportunity to provide information. The email also contained links to information on NOPSEMA's publications on EP consultation and its purpose. It also made clear that any gender restricted, or culturally sensitive information would be managed carefully and appropriately. An offer of support to participate in consultation was made.
- (2) On 4 August 2023, NYFL emailed Woodside regarding notification about acceptance of another Scarborough EP stating that they did not have sufficient resourcing to respond to EP matters and requesting to meet to discuss a way forward.
- On 11 August 2023, NYFL emailed Woodside and attached a letter primarily in response to another matter. The email noted that:
 - NYFL look forward to progressing discussion with Woodside on the proposed program of consultation.

- **(4)** NYFL is participating with other First Nations organisations and representative bodies to develop a framework for consultation.
- **(5)** There may be people, who in accordance with Indigenous tradition, may have spiritual and cultural connections to the EMBA that have not yet been afforded the opportunity to provide information
- (6) There may be additional cultural or environmental values that relate to the area that have not been identified or communicated to Woodside
- On 15 August 2023, Woodside emailed NYFL thanking them for their correspondence and requesting availability to meet.
- On 18 August 2023 NYFL emailed Woodside proposing a date of 30 August 2023 to meet to discuss next steps.
- On 18 August 2023 Woodside emailed NYFL accepting the proposed date to meet to discuss engagement processes.
- On 28 August 2023, Woodside emailed NYFL requesting a video link for a consultant to Woodside who will be involved in consultation and engagement going forward.
- On 28 August 2023, NYFL emailed through an agenda for the proposed meeting.
- On 28 August 2023, Woodside emailed NYFL acknowledging receipt of agenda and providing contact details for engagement.
- On 30 August 2023, Woodside met with NYFL to discuss a consultation process and engagement with NYFL and YAC, NYFL put forward the following:
- (7) NYFL requested Woodside employ 3 traditional Owners who would engage/consult with NYFL members.
- (8) NYFL stated that time frames must be longer than one month for consultation.
- On 15 September 2023, Woodside emailed NYFL advising of the planned start date for the activity, and once again requesting if NYFL is aware of any other people with whom Woodside should consult, and if there is any information NYFL wish to provide on cultural values. The email requested that information be distributed to members or individuals who may be interested. It requested this information prior to 28 September 2023, but reiterated that Woodside will take feedback after the commencement of the activity as part of ongoing consultation. The Summary Information Sheet for this activity was attached (Appendix F, reference 1.107). No response was received to this email.
- NYFL is also consulted through its membership on the Karratha Community Liaison Group (KCLG) and the Quarterly Heritage Group.

- 1	Summary of Feedback, Objection or Claim	Woodside Energy's Assessment of Merits of Feedback, Objection or Claim and its Response	Env	vironment Plan Controls
	(1) NYFL self-identified and advised Woodside that they are a relevant person for this activity. Their feedback included a request for information sheets appropriate for a	(1) Woodside has responded to NYFL's self-identification and consulted with them as a relevant person. NYFL was created to act as Trustee for the Northwest Shelf Agreement 1998. NYFL's membership is made up of Ngarluma people and Yindjibarndi people, membership is not open to any person who is not accepted	(1) (2) (3)	NYFL has been consulted with in accordance with the methodology described in Section 5 of the EP Not required Not required
	Traditional Custodian audience.	as Ngarluma or Yindjibarndi. Woodside has also consulted with Ngarluma and Yindjibarndi Aboriginal Corporations individually.	(4)	Woodside is implementing a program to actively support Traditional Custodians' capacity for ongoing
L	(2) NYFL requested consultation material suitable to a Traditional	Ngarluma and Yindjibarndi Aboriginal Corporations were appointed by the Federal Court, at the request of the Ngarluma and		engagement and consultation on environment plans, referenced as PS 14.2.1 in this EP. This includes

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- Custodian audience and resourcing support.
- (3) NYFL wishes to pause consultation until after the First Nations national summit is held and a framework for consultation developed. Woodside understands that the First Nations national summit was tentatively scheduled for the end of August 2023, but may now take place in November 2023.
- (4) NYFL is working with other First Nations Organisations and representative Bodies to develop a framework for consultation. This has not yet been proposed to Woodside.
- (5) NYFL expressed that there may be people who in accordance with Indigenous tradition, may have spiritual and cultural connections to the environment that may be affected who have not yet been afforded the opportunity to provide information.
- (6) NYFL expressed that there may be additional cultural and environmental values that relate to the area that have not been communicated to Woodside.
- (7) NYFL requested that Woodside employ three Ngarluma/Yindjibarndi Traditional Owners who would consult with NYFL members.

- Yindjibarndi common law native title holders as PBCs to represent the communal interests of the Ngarluma and Yindjibarndi people respectively. Ngarluma and Yindjibarndi Aboriginal Corporations are representative of all Ngarluma and Yindjibarndi people regardless of membership.
- (2) Woodside recognises that sufficient information must be provided in a form that is accessible and appropriate to the audience. In response to this request, Woodside developed and provided Summary information sheets developed with a Ngarluma Traditional Custodian for a Traditional Custodian audience. Woodside offered face to face consultation meetings resourced by Woodside to enable meaningful Traditional Custodian consultation, which include visual aids and videos. NYFL was initially amenable to this, however later postponed the engagement for an undetermined period (see claim 7).
- (3) Woodside does not consider that the proposal that consultation be paused until the proposed First Nations National Summit is reasonable. Woodside does not consider that the First Nations Summit is a pre-requisite for consultation to occur under regulation 11A, and such a reading would be against case law guidance that the process of consultation must be capable of reasonable and practicable discharge. Sufficient information and a reasonable period has already been provided prior to the Summit.
- (4) Separate from consultation under Reg 11A, Woodside is open to engaging with a joint First Nations framework for consultation, however, notes that this is not required to undertake and/or complete consultation in the course of preparing this EP. The framework would be used to frame ongoing consultation. Sufficient information to allow informed assessment has already been provided by other means, including summary sheets developed by Indigenous staff. Woodside has an existing engagement framework in place with NYFL which enables regular (quarterly) communication about Woodside activities.

Woodside engages in ongoing consultation throughout the life of an EP. Should feedback be received after the EP has been

- continued engagement regarding NYFL's proposed Framework Agreement which would be applied to ongoing consultation for this activity. This is described further in the Program of Ongoing Engagement with Traditional Custodians, Appendix J
- (5) Methodology described in **Section 5** adequately addresses this claim.
- (6) Description of cultural values and heritage features is included in **Section 4.9** of the EP
- (7) The proposed Framework Agreement (see point 4) will address appropriate NYFL resourcing. This is described further in the Program of Ongoing Engagement with Traditional Custodians, Appendix J
- (8) Not required

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(8)	NYFL stated that time frames must
	be longer than one month for
	consultation.

accepted (including any relevant new information on cultural values), it will be assessed and, where appropriate, Woodside will apply its Management of Change and Revision process (see **Section 7.8.1**).

(5) As described in **Section 5** of the EP, Woodside's consultation methodology provided Traditional Custodians with the opportunity to be aware of the proposed activity and to participate in consultation. Woodside considers this methodology has afforded all people whose spiritual connection to the environment that may be affected a reasonable opportunity to consult. Consultation with NYFL has not identified any other groups or individuals relevant to communally held functions, activities or interests. NYFL have been provided with reasonable time to respond with this information since the email from Woodside of 18 July specifically requesting this information, but no response to this request has been received.

Woodside has also consulted with Ngarluma and Yindjibarndi Aboriginal Corporations who are the Representative Aboriginal Corporations nominated by the Ngarluma and Yindjibarndi people respectively to represent the communally held interests of the Ngarluma and Yindjibarndi people.

- (6) Woodside has a robust understanding of the environment, cultural values and heritage features based on publicly available information and consultation with relevant persons. This is described in **Section 4.9** of the EP
- (7) Woodside does not consider NYFL's request that Woodside employ three Ngarluma/Yindjibarndi traditional owners to consult with NYFL members a reasonable proposal. Woodside's consultation efforts are informed and undertaken by Woodside personnel with significant experience in First Nations relations, including Indigenous employees. Woodside assesses that the proposed Framework Agreement would be an effective mechanism to address resourcing for ongoing consultation.

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(8) Woodside has already provided NYFL with reasonable time to participate in consultation and has been engaging since September 2022.

Woodside Heritage Quarterly Meetings

Woodside convenes a quarterly meeting of Traditional Custodian representatives from the Representative Aboriginal Corporations involved in historical native title claims over the Burrup Peninsula, including NAC and WAC. Individual attendees are nominated by their representative Aboriginal Corporations.

Copies of slides are made available to representative Aboriginal Corporations for the general awareness of members who were not able to attend individual meetings.

Summary of information provided and record of consultation:

- On 12 March 2020 an overview of the Scarborough project was provided to attendees.
- On 12 June 2020 an update on the approval of the Scarborough OPP was provided along with a high-level timeline for engagement on EPs. An overview of the Scarborough project was also provided.
- On 10 September 2020 an overview of the Scarborough project was provided to attendees.
- On 9 December 2020 an overview of the Scarborough project was provided to attendees along with a schedule for project activities and approvals.
- On 19 March 2021 an overview of the Scarborough project was provided to attendees along with an overview of the pipeline licence schedule.
- On 10 June 2021 an overview of the Scarborough project was provided to attendees along with a schedule for project activities.
- On 20 September 2021 an overview of the Scarborough project was provided to attendees along with a schedule for project activities.
- On 13 December 2021 an overview of the Scarborough project was provided to attendees along with a summary of consultation conducted.
- On 28 March 2022 an overview of the Scarborough project was provided to attendees targeting correction of misinformation in the community about the project footprint.
- On 17 June 2022 an overview of the Scarborough project was provided to attendees. Attendees were advised on the status of the EP.
- On 12 March 2020 an overview of the Scarborough project was provided to attendees.
- On 12 June 2020 an update on the approval of the Scarborough OPP was provided along with a high-level timeline for engagement on EPs. An overview of the Scarborough project was also provided.
- On 10 September 2020 an overview of the Scarborough project was provided to attendees.
- On 9 December 2020 an overview of the Scarborough project was provided to attendees along with a schedule for project activities and approvals.
- On 19 March 2021 an overview of the Scarborough project was provided to attendees along with an overview of the pipeline licence schedule.
- On 10 June 2021 an overview of the Scarborough project was provided to attendees along with a schedule for project activities.
- On 20 September 2021 an overview of the Scarborough project was provided to attendees along with a schedule for project activities.
- On 13 December 2021 an overview of the Scarborough project was provided to attendees along with a summary of consultation conducted.

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- On 28 March 2022 an overview of the Scarborough project was provided to attendees targeting correction of misinformation in the community about the project footprint.
- On 17 June 2022 an overview of the Scarborough project was provided to attendees. Attendees were advised on the status of the EP.
- On 25 October 2022 an overview of the Scarborough project was provided along with summaries of the scope, content and expected timeframes for four EPs including this EP
- On 21 March 2021 an overview of heritage works undertaken for the Scarborough Project was provided

Summary of Feedback, Objection or Claim	Woodside Energy's Assessment of Merits of Feedback, Objection or Claim and its Response	Environment Plan Controls
Across all meetings of the Woodside Heritage Quarterly Meetings there has been a general interest in how this project interacts with other proposed developments by Woodside and others. Participants generally had an awareness of the planned project through other sources (particularly through ethnographic survey participation). Participants have not made any response relating to activities in Commonwealth waters.	Woodside continues to engage participants on a quarterly basis and through direct consultation where applicable. Copies of slides are made available to representative Aboriginal Corporations for the general awareness of members who were not able to attend individual meetings. Woodside engages in ongoing consultation throughout the life of an EP. Should feedback be received after the EP has been accepted (including any relevant new information on cultural values), it will be assessed and, where appropriate, Woodside will apply its Management of Change and Revision process (see Section 7).	Based on the engagement to date, no additional controls have been identified.

Native Title Representative Bodies

Yamatji Marlpa Aboriginal Corporation (YMAC)

Woodside has discharged its obligations for consultation under Regulation 11A(1) and consultation with YMAC for the purpose of 11A(1) is complete. Sufficient information and a reasonable period have been provided, as described in Section 5.5 of the EP. YMAC has indicated that it will not provide substantiative comment on EPs. Sufficient Information:

• Woodside sought direction on YMAC's preferred method of consultation. This resulted in meetings being coordinated at location of YMAC's choosing, with YMAC nominated representatives. These meetings included Woodside presenting information in a format and style that was readily accessible and appropriate

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- Provided Consultation Information Sheet and Consultation Summary Sheets developed by Indigenous staff to YMAC. These set out details of the proposed activity,
 the location of the activity, the timing of the activity as well as the potential risks and impacts of the activity with controls in a digestible, plain English format
- Articulated planned and unplanned environmental risks and impacts, with proposed controls.

Reasonable Period:

- Consultation Information Sheet publicly available on the Woodside website since July 2021, further updated and available from January 2023.
- Woodside published advertisements in a national, state, and relevant local newspapers in October 2022 and then again 18 and 20 January 2023 advising of the proposed activities and requesting comments or feedback
- Consultation information provided to YMAC on 20 January 2023 based on their function, interest, and activities.
- Woodside has addressed and responded to YMAC over a 12-month period, demonstrating a "reasonable period" of consultation.

Woodside asked YMAC if it was aware of any other Traditional Custodian groups or individuals with whom Woodside should consult. None were identified.

Woodside has provided a reasonable opportunity for input since July 2022 and a genuine two-way dialogue has occurred.

Woodside engages in ongoing consultation, beyond that required by Regulation 11A, throughout the life of an EP. Should feedback be received after the EP has been accepted (including any relevant new information on cultural values), it will be assessed and, where appropriate, Woodside will apply its Management of Change and Revision process (see Section 7.8.1 of the EP).

Woodside considers the measures and controls described in this EP address the potential impact from the proposed activity on YMAC functions, interests or activities.

Summary of information provided and record of consultation:

- On 7 July 2022, Woodside met with YMAC to request advice on the appropriate cultural authorities for the Scarborough project area, including but not limited to the scope of this EP and nearby marine parks.
- Woodside described the Scarborough Project and its footprint and gave an overview of indigenous parties consulted.
- Woodside noted that YMAC was identified in the North-west Marine Parks Network Management Plan as the contact for identifying cultural values in nearby Australian Marine Parks. Woodside sought to understand if the cultural values of the nearby Gascoyne Marine Park may extend into the offshore Scarborough project areas.
- Woodside requested advice on how best (in addition to work completed) to identify any cultural values in the Marine Parks and in the broader project footprint.
- YMAC requested Woodside provide the relevant detailed information relating to the location and extent of the project.
- On 8 July 2022, Woodside emailed YMAC providing the requested information including a link to the factsheet relevant to this EP.
- Woodside advised it would like to establish a process to cross check its understanding of cultural and spiritual values associated with proposed offshore development and surrounding areas. Woodside noted that YMAC has been listed as the Native Title Representative body in the North-west Marine Parks Network Management Plan for nearby Australian Marine Parks and would therefore like to confirm cultural values of these marine parks don't extend into Woodside's areas of interest.
- Woodside provided an extract from a related Scarborough EP which detailed further context and Woodside's current understanding of cultural and spiritual values
 associated with proposed offshore development and surrounding areas.
 - On 19 July 2022, YMAC responded to Woodside:

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- YMAC stated the area Woodside has identified requires correspondence directed to Murujuga Aboriginal Corporation and Ngarluma Aboriginal Corporation.
- The extent to which each corporation has interests specifically over the area of this EP was not advised, but both have been involved in assessments of cultural values as detailed below. YMAC does not act for either corporation.
 - On 19 July 2022, Woodside followed up via email.
 - (1) On 19 July 2022, YMAC emailed Woodside stating the area Woodside has identified requires correspondence directed to Murujuga Aboriginal Corporation and Ngarluma Aboriginal Corporation.
- On 13 March 2023, Woodside emailed YMAC as to whether YMAC considers itself a 'relevant person' under subregulation 11 A (1) of the Environment Regulations for the purposes of consultation on EPs and, if so, whether that relevance is limited to a facilitation function in its capacity as a representative of Traditional Owner groups/corporations that overlap or adjacent to the environment that may be affected (EMBA) of a particular activity.
- On 20 March 2023, YMAC replied to confirm that in its view it is a 'relevant person' under subregulation 11 A (1) of the Environment Regulations for the purposes of consultation on EPs only in relation to its facilitation and coordination function as a Native Title Representative Body under applicable federal legislation. YMAC does not intend to provide substantive comment on the content of EPs.
- On 20 March 2023, Woodside emailed YMAC to thank it for its reply and to advise that that this assessment would be included in Woodside's EPs.
- On 20 March 2023, YMAC emailed Woodside confirming that it is appropriate to use the assessment in the EPs.
- 19 April 2023, Woodside emailed YMAC, providing a link to a page on Woodside's management of emissions associated with the Scarborough Project and provided a list of consultants who may be able to assist PBCs with consultation. Woodside also offered to meet in the second week of May. No response was received.
- YMAC is the representative for NTGAC and Nanda Aboriginal Corporation and was the representative for Yinggarda Aboriginal Corporation until April 2023.
- On 12 June 2023, YMAC emailed Woodside on behalf of itself and its clients. The email attached:
 - A proposal to fund in-house expertise to support consultations and administration of the consultation framework.
 - A draft consultation framework.
- On 12 June 2023, Woodside responded to YMAC by email, thanking them for the documents and that Woodside would respond shortly.
- On 25 July 2023, Woodside emailed YMAC:
 - Agreeing in principle to the draft consultation framework and funding proposal but seeking further discussion on details.
 - Stating that Woodside is open to considering an industry funded position at YMAC to support the work they are facilitating.
 - o attaching Woodside's Program for Ongoing Engagement with Traditional Custodians.
- Seeking a meeting with YMAC in relation to the draft consultation framework at YMAC's earliest convenience.

Summary of Feedback, Objection or Claim	Woodside Energy's Assessment of Merits of Feedback, Objection or Claim and its Response	Environment Plan Controls
(1) YMAC has advised that the most appropriate stakeholders for the Scarborough project generally are Murujuga Aboriginal Corporation and Ngarluma Aboriginal Corporation who are not represented by YMAC.	 (1) Woodside agrees with YMAC's advice that MAC and NAC should be consulted regarding the activity, and they have been (2) Woodside notes YMAC's position that it does not intend to provide substantive comment on EPs (3) Woodside has assessed the Program of Ongoing Engagement with Traditional Custodians will 	 (1) Not required (2) Not required (3) Woodside will implement a program to actively support Traditional Custodians' capacity for ongoing engagement and consultation on environment plans for the purpose of

- (2) YMAC has provided feedback that in its view it is a 'relevant person' under sub regulation 11 A (1) of the Environment Regulations for the purposes of consultation on EPs only in relation to its facilitation and coordination function as a Native Title Representative Body under applicable federal legislation and does not intend to provide substantive comment on the content of EPs.
- (3) YMAC has provided feedback that it is seeking an industry funded position to support consultations for this and other activities, and has provided a draft consultation framework to assist the consultation process.

support ongoing consultation with YMAC and/or the groups it represents. This can address appropriate support for resourcing, separate from consultation under Reg 11A, Sufficient information to allow informed assessment has already been provided by other means.

Woodside engages in ongoing consultation throughout the life of an EP. Should feedback be received after the EP has been accepted (including any relevant new information on cultural values), it will be assessed and, where appropriate, Woodside will apply its Management of Change and Revision process (see Section 7.8.1).

avoiding impacts to cultural heritage values, referenced as **PS 14.2.1** in this EP.

Historical cultural heritage groups or organisations

Western Australian Museum (WAM)

Woodside considers it has discharged its obligations for consultation under Regulation 11A(1). Sufficient time, information and opportunity has been provided as summarised below:

- Consultation Information Sheet publicly available on the Woodside website since September 2022.
- Woodside published advertisements in a national, state and relevant local newspapers on 19 October 2022 advising of the proposed activities and requesting feedback.
- Consultation Information provided to WAM on 1 February 2023 based on their function, interest and activities.
- Woodside has addressed and responded to WAM over a 6 month period.

Summary of information provided and record of consultation:

• On 1 February 2023, Woodside emailed WAM advising of the proposed activity (Appendix F, reference 1.137) and provided an updated Consultation Information Sheet and State Shipwrecks information (Appendix F, reference 1.138).

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- On 22 February 2023, Woodside sent a follow up email (Appendix F, reference 1.182).
- On 3 March 2023, WAM emailed Woodside:
- WAM advised it had reviewed the documents relating to the proposed activity.
- WAM advised that its feedback should be reviewed in conjunction with the Commonwealth Government's 'Underwater Cultural Heritage (UCH) Guidance for Offshore
 Developments' regarding UCH assessments, the potential for finding as yet unlocated UCH and proponents' legal responsibilities and Duty of Care requirements.
 (https://www.dcceew.gov.au/parks-heritage/publications/underwater-heritage-quidance-offshore)
- WAM advised that while a list of known, located UCH sites in the broader has been assessed and provided in relation to the Environment that May Be Affected (EMBA), of more direct concern for direct impact is the potential for as yet unlocated UCH to exist in the extensive areas of seabed to be impacted by trenching, borrow ground dredging, spoil grounds and other seabed interventions such as anchoring etc.
- WAM advised that apart from mention of an ethnographic survey for Indigenous UCH, there is no indication that any other desktop or physical assessment for UCH has been undertaken in any of the seabed areas to be impacted, that is required to make a UCH Impact Assessment.
- WAM recommended that a UCH survey is carried out by a qualified and experienced maritime archaeologist(s). This may initially be a desktop survey based on existing
 data, if the resolution and coverage is sufficient. Further physical investigation may be required to ensure any seabed impact areas do not contain UCH that could be
 impacted.
- WAM recommended that all project managers, vessel, plant and ROV operators should be advised of the potential to encounter visible or buried UCH, and of their statutory reporting requirements under both the Commonwealth Underwater Cultural Heritage Act 2018 (Australian and Commonwealth waters, including State waters for historic shipwrecks), and Maritime Archaeology Act 1973 (State waters) to report any discoveries of UCH to the WA Museum.
- WAM recommended there should be procedures in place should any UCH be discovered in the course of the works.
- WAM recommended that the documents should be updated to include 'Impact to Underwater Cultural Heritage' as a Potential Impact/ Risk as a result of seabed disturbance, with corresponding Risk Mitigation and Management Measures.
- On 20 March 2023. Woodside emailed WAM:
- Woodside referred to WAM's correspondence dated 3 March 2023 and noted that WAM's input has provided Woodside with an understanding of WAM's interest and concerns in relation to the proposed activity.
- Woodside provided a detailed attachment of responses to the points raised in WAM's correspondence on 3 March 2023.
- Woodside reiterated its updated Consultation Information Sheet for the Subsea EP provides additional background on the proposed activities, including summaries of
 potential key impacts and risks, and associated management measures. Woodside provided a link to the fact sheet on the Woodside website.
- Woodside advised it welcomes continued feedback from stakeholders in relation to its activities and ongoing operations.
 - Woodside provided a response to specific points raised by WAM in their correspondence dated 3 March 2023 as follows:
- The seabed bathymetry and other characteristics have been identified and characterised through various geophysical and environmental surveys over the past 13 years (refer to the Scarborough OPP). It is intended that further surveys will be carried out prior to commencement of infrastructure installation, during scope execution and after the activities are complete (these are described and risk assessed in the EP).
- The Subsea EP activity areas (permits WA-61-L and WA-62-L) have been the subject of dedicated seabed surveys in 2005 and 2018, which included acquisition of coincident high resolution multibeam bathymetry, side scan sonar and sub-bottom profiler data. The development area was also subject to multi-AUV (Autonomous

- Underwater Vehicle) high resolution survey in 2018. This geophysical data maps the seabed in detail including natural features and UCH and has been fully analysed and interpreted by specialist geophysicists.
- Given the extensive surveys that have been carried out within permit areas WA-61-L and WA-62-L, planned pre-installation surveys as described in the EP and low likelihood of UCH presence in the Operational Area(s), a dedicated UCH survey by a qualified maritime archaeologist is not required.
- The likelihood of encountering unlocated UCH in this area is considered remote.
- UCH as it applies to the Scarborough Project has been determined to be most relevant to the nearshore activities, and as such is not addressed with a performance standard or management actions in the Subsea EP.
- On 25 July 2023, Woodside emailed WAM stating that Woodside originally responded to WAM on 8 May 2023 with regards to the WAM correspondence, in relation to the SITI EP however changes have since been made to the SITI and Subsea EP as it progresses through the National Offshore Petroleum Safety and Environmental Management Authority (NOPSEMA) assessment process, that are relevant to the original WAM claims.

The Subsea EP has been updated to include controls around the Unexpected Finds Procedure and risks to UCH.

Woodside Energy's Assessment of Merits of Feedback, Objection **Environment Plan Controls** Summary of Feedback, Objection or Claim or Claim and its Response WAM has provided feedback, objections WAM's feedback has been assessed on merit as it applies to this EP The EP demonstrates that there are no known and a summary of responses has been provided to address specific and claims relating to: underwater heritage sites, including shipwrecks, within claims and objections raised on the proposed activity, where the Petroleum Activities Area and identifies that there are The potential for unlocated appropriate. no credible impacts to the values of any underwater UCH to exist in the areas of heritage, including shipwrecks, as a result of planned seabed to be impacted by the Given the extensive surveys that have been carried out within permit activities (Section 4.9.1). Any underwater heritage sites, proposed activities. areas WA-61-L and WA-62-L, planned pre-installation surveys as including shipwrecks, within the EMBA would be located described in the EP and low likelihood of UCH presence in the Additional desktop and on the seabed; in the event of an unplanned hydrocarbon Operational Area(s), a dedicated UCH survey by a qualified maritime assessment survey work spill there would be no impacts to these sites. archaeologist is not required. required to support UCH Woodside considers the measures and controls in the EP Impact Assessment. The likelihood of encountering unlocated UCH in this area is considered are appropriate, and new controls added to address WAM Statutory reporting and claims have been communicated to WAM. UCH as it applies to the Scarborough Project has been determined to procedural requirements be most relevant to the nearshore activities, and as such is not relating to the discoveries of addressed with a performance standard or management actions in the UCH. Subsea EP. Consultation / EP The activities within the Subsea EP do not include trenching, borrow documentation updates to ground dredging or the use of spoil grounds, so these activities do not include potential impacts/risks, pose any risk to UCH. and corresponding mitigation and management measures, Woodside added three new controls which address WAM concerns and notified WAM of these changes. These included an Unexpected Finds

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on UCH from the proposed activities.

Procedure, vessel / ROV crew awareness of the procedure and obligations to stop work should any potential UCH be discovered, as well as the requirement to report UCH to relevant authorities, including to the WAM.

Woodside responded to the DPLH's recommendation to notify WAM in the event of a maritime archaeological incident.

No amendments have been made to the EP in relation to any of the feedback, objections or claims raised. Woodside has provided responses to feedback received as shown above.

Woodside engages in ongoing consultation throughout the life of an EP. Woodside notes that further feedback may be received as part of ongoing consultation. Should feedback be received after the EP has been accepted, it will be assessed and, where appropriate, Woodside will apply its Management of Change and Revision process (see **Section 7**).

Local government and community representative groups or organisations

Karratha Community Liaison Group (KCLG)

Woodside considers it has discharged its obligations for consultation under Regulation 11A(1). Sufficient time, information and opportunity has been provided as summarised below:

- Consultation Information Sheet publicly available on the Woodside website since September 2022.
- Woodside published advertisements in a national, state and relevant local newspapers on 19 October 2022 advising of the proposed activities and requesting feedback.
- Consultation Information provided to KCLG on 21 September 2022 based on their function, interest and activities.
- Woodside has sent follow up emails seeking feedback on the proposed activities.
- Woodside has provided the KCLG with the opportunity to provide feedback over an 11 month period.

Summary of information provided and record of consultation:

On 21 September 2022, Woodside presented to the KCLG (Appendix F, reference 1.26).

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- Woodside provided an overview of the proposed activity (including displaying a map of the Operational Area) and advised of activity timeframes and consultation feedback dates.
- On 21 September 2022, Woodside emailed the KCLG advising of the proposed activity (Appendix F, reference 1.27) and included copy of the presentation pack, a Consultation Information Sheet and Consultation FAQ.
- On 12 October 2022, Woodside sent a follow up email (Appendix F, reference 1.61).
- On 27 January 2023, Woodside emailed the KCLG advising of the proposed activity (Appendix F, reference 1.129) and provided an updated Consultation Information Sheet.
- On 22 February 2023, Woodside sent a follow up email (Appendix F, reference 1.176).
- On 24 February 2023, the Pilbara Port Authority responded and noted that as the activity occurs outside of the Port waters it has no comments.

Summary of Feedback, Objection or Claim	Woodside Energy's Assessment of Merits of Feedback, Objection or Claim and its Response	Environment Plan Controls
KCLG with the exception of the Pilbara Port Authority, which advised it had no comments on the proposed activity. Whilst feedback has been received, there were no objections or claims.	Woodside notes that no feedback was received from the KCLG with the exception of the Pilbara Port Authority, which advised it had no comments on the proposed activities. Woodside engages in ongoing consultation throughout the life of an EP. Woodside notes that further feedback may be received as part of ongoing consultation. Should feedback be received after the EP has been accepted, it will be assessed and, where appropriate, Woodside will apply its Management of Change and Revision process (see Section 7).	No additional measures or controls are required.

Exmouth Community Reference Group (ECRG)

Woodside considers it has discharged its obligations for consultation under Regulation 11A(1). Sufficient time, information and opportunity has been provided as summarised below:

- Consultation Information Sheet publicly available on the Woodside website since September 2022.
- Woodside published advertisements in a national, state and relevant local newspapers on 19 October 2022 advising of the proposed activities and requesting feedback.
- Consultation Information provided to ECRG on 7 April 2022 based on their function, interest and activities.
- Woodside has addressed and responded to the ECRG over a 17 month period.
- Summary of information provided and record of consultation:
- On 7 April 2022, Woodside presented to the ECRG (Appendix F, reference 1.211)

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- Woodside provided an overview and update on the Scarborough Project, which included reference to the proposed activities for this EP.
- On 17 November 2022, Woodside presented to the ECRG (Appendix F, reference 1.103)
- Woodside provided consultation information on related petroleum activities for the Scarborough Project, which included reference to the proposed activities for this EP.
- On 1 February 2023, Woodside emailed the ECRG advising of the proposed activity (Appendix F, reference 1.135) and provided a Consultation Information Sheet.
- On 22 February 2023, Woodside sent a follow up email (Appendix F, reference 1.178).

Summary of Feedback, Objection or Claim	Woodside Energy's Assessment of Merits of Feedback, Objection or Claim and its Response	Environment Plan Controls
received despite follow up.	Woodside engages in ongoing consultation throughout the life of an EP. Should feedback be received after the EP has been accepted, it will be assessed and, where appropriate, Woodside will apply its Management of Change and Revision process (see Section 7).	No additional measures or controls are required.

Other non-government groups or organisations

Conservation Council of WA (CCWA)

Woodside has discharged its obligations for consultation under Regulation 11A(1) and consultation with Conservation Council of WA (CCWA) for the purpose of 11A(1) is complete. Sufficient information and a reasonable period have been provided, as described in Section 5.5 of the EP. Specifically:

- Consultation Information Sheet publicly available on the Woodside website since September 2022.
- Woodside published advertisements in a national, state and relevant local newspapers on 19 October 2022 advising of the proposed activities and requesting feedback.
- Consultation Information provided to CCWA on 21 September 2022 based on their function, interest and activities.
- Woodside has sent follow up emails seeking feedback on the proposed activities.
- Woodside has provided the CCWA with the opportunity to provide feedback over an 11 month period.

Summary of information provided and record of consultation:

- On 21 September 2022 Woodside emailed CCWA advising of the proposed activity (Appendix F, reference 1.33) and provided a Consultation Information Sheet and Consultation FAQ.
- On 13 October 2022, Woodside sent a follow up email (Appendix F, reference 1.198).

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- On 6 February 2023, Woodside emailed CCWA with an update on the proposed activity (Appendix F, reference 1.157) and provided an updated Consultation Information Sheet.
- On 22 February 2023 Woodside sent a follow up email (Appendix F, reference 1.190).

1	Woodside Energy's Assessment of Merits of Feedback, Objection or Claim and its Response	Environment Plan Controls
received despite follow up.	Woodside engages in ongoing consultation throughout the life of an EP. Should feedback be received after the EP has been accepted, it will be assessed and, where appropriate, Woodside will apply its Management of Change and Revision process (see Section 7.6).	No additional measures or controls are required.

Greenpeace (GAP)

Woodside has discharged its obligations for consultation under Regulation 11A(1) and consultation with Greenpeace (GAP) for the purpose of 11A(1) is complete. Sufficient information and a reasonable period have been provided, as described in Section 5.5 of the EP. Specifically:

- Consultation Information Sheet publicly available on the Woodside website since September 2022.
- Woodside published advertisements in a national, state and relevant local newspapers on 19 October 2022 advising of the proposed activities and requesting feedback.
- Consultation Information provided to GAP on 21 September 2022 based on their function, interest and activities.
- Woodside has addressed and responded to GAP over an 11 month period.
- Summary of information provided and record of consultation:

Historical Engagement

On 1 June 2022, Woodside met with GAP representatives to discuss Woodside's broader business, including the Scarborough development.

Ensuring Sufficient Information and Sufficient Time

- On 21 September 2022, Woodside emailed GAP advising of the proposed activity (Appendix F, reference 1.41) and provided a Consultation Information Sheet and Consultation FAQ.
- On 13 October 2022 Woodside sent a follow-up email (Appendix F, reference 1.91).
- On 21 October 2022, GAP emailed Woodside requesting more time to finalise its feedback.

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- On 26 October 2022, GAP emailed Woodside and provided a letter containing feedback on the proposed activity. The letter contained feedback, claims and objections relating to the proposed activity.
- Relevant person status and consultation process
- Provision of documents supporting the OPP.
- Additional information required relating to description of the titleholder, EP process, description of activity, description of the existing environment, description of stakeholder consultation, environmental risk assessment, performance outcomes, standards and measurement criteria and implementation strategy.
- GAP requested a list of third-party documents that were referenced in the Scarborough Offshore Project Proposal but do not appear to be publicly available and that GAP believe may be relevant to the activities outlined in the Information Sheet.
- Indirect Impacts of GHG emissions
- No new information was received requiring additional specific mitigation measures or controls.
 - On 20 March 2023, Woodside emailed GAP and attached a detailed table of responses to address specific claims and objections in 26 October 2022 correspondence regarding the proposed activity, where appropriate:
- Woodside will comply with the requirements set out in Reg 11A of the Environment Regulations in relation to the consultation process for this EP.
- Woodside engages in ongoing consultation with stakeholders throughout the life of an EP. Feedback and comments received continue to be assessed and responded to, as required, through the life of an EP, including during EP assessment and throughout the duration of the accepted EP, in accordance with the intended outcome of consultation.
- The Offshore Project Proposal (OPP) is informed and supported by an extensive list of literature and studies, with many publicly available. The relevant information from the reports is presented within the OPP to support the relevant impact and risk evaluation.
- Woodside confirms concerns related to carbon and the impact on climate change from Scarborough gas are not relevant to the Scarborough Subsea EP. Woodside confirms the Subsea EP assesses both direct and indirect impacts and risks associated with the PAP, having regard to the nature and scale of the proposed PAP. The extraction of Scarborough gas for onshore processing is not within the scope of the activity described in the Subsea EP. Therefore, indirect impacts and risks arising from the onshore processing of Scarborough gas are not considered indirect impacts/risks of the PAP for the Subsea EP but may be evaluated in Scarborough EPs as appropriate. GHG emissions associated with the subsea activity (i.e., fuel combustion from project vessels) are considered in the EP which will be made publicly available once submitted and accepted by NOPSEMA.
- Woodside also attached the updated Consultation Information Sheet.
 - On 3 April 2023, GAP emailed Woodside:

GAP reiterated its feedback, objections and claims from 26 October 2022 relating to:

- Relevant person status and consultation process
- Adapting the consultation process to Greenpeace's needs
- Form of information and additional information requested
- GAP requested a copy of the EP once it has been drafted.

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- On 16 May 2023, Woodside emailed GAP to address specific claims and objections contained in its 3 April 2022 correspondence regarding the proposed activity, where appropriate:
- The purpose of the Consultation Information Sheet is to initiate feedback from persons or organisations who are interested in Woodside's activities. This initial feedback is then used to inform the drafting of Woodside's environment plans and relevant controls. The Consultation Information Sheet provides information in relation to the activity, planned and unplanned risks and relevant measures and controls.
- The process for preparing the Subsea EP and related consultation on Woodside's activities is an iterative one. Woodside acknowledges consultation with GAP on this proposed activity will be ongoing.
- Once the Subsea EP has been submitted to NOPSEMA and enters the assessment phase, it will be made publicly available on NOPSEMA's website. GAP will then have the opportunity to review the entire Subsea EP. Following publication of the Subsea EP, feedback is welcomed and received across the life of the EP, including while it is being prepared, while it is under assessment as well as after acceptance.
- Woodside continues to invite GAP to provide feedback to allow Woodside to consider the potential impacts and risks of the Subsea EP activities on its functions, interests and activities and what Woodside can do to mitigate those impacts.
 - On 13 June 2023, GAP emailed NOPSEMA and cc'd Woodside in relation to the four Scarborough EPs currently being assessed by NOPSEMA and urged NOPSEMA to not accept the EPs due to Woodside's unsatisfactory consultation approach (insufficient time and insufficient information provided for consultation).
- GAP confirmed its relevant person status and summarised recent communications with Woodside across the four Scarborough Project EPs. Regarding this EP, GAP acknowledged Woodside's response of 15 May 2023, GAP's auto reply on the same date and that Woodside submitted an updated version of this EP to NOPSEMA on or before 1 June 2023. Further claims made by GAP are summarised as follows:
- Submission of EPs without Notice Woodside did not seek confirmation that information provided to GAP regarding the EPs was sufficient, nor did Woodside invite any response to the information by a particular date before it intended to resubmit. Further, Woodside did not notify GAP as to the imminent submission of the EPs, nor that any of the EPs had been resubmitted. GAP has had to continue to rely on NOPSEMA's website for status updates.
- GAP stated Woodside cannot unilaterally determine what is a reasonable period or sufficient information for a 'relevant person' such as GAP without seeking and considering GAP's views. It was not clear to GAP why Woodside did not at least notify GAP of imminent resubmission of EPs as this would allow GAP to communicate to Woodside whether further time was required to respond to information. GAP stated it had previously indicated it required around a month to respond to information from Woodside. GAP stated this did not meet the Regulations nor NOPSEMA's consultation guideline.
- Failure to provide sufficient time for consultation GAP stated it had not yet had an opportunity to fully consider whether it had been provided with sufficient information in Woodside's recent responses to allow GAP to make an informed assessment of the possible consequences of the activities on GAP's functions, interests or activities (as required under reg 11A(2)). This was mainly because GAP believed Woodside had not provided GAP with sufficient time to consider its responses.
- GAP stated 'NOPSEMA's consultation guideline indicated that what constitutes a 'reasonable period' may be informed by the "nature, scale and complexity of an activity as well as the extent and severity of potential impacts and risks on a relevant persons['] functions, interests or activities" and that '[r]elevant persons may have also provided the titleholder with their views of what constitutes reasonable timeframes, their availability and or accessibility issues that should be taken into account."
- GAP considered a reasonable period to be around one month in most cases but sometimes more.
- Woodside had only allowed 4-7 business days for GAP to review and respond to additional information since the GAP representative's return from travel.
- GAP provided the timeframes it required to respond to Woodside's latest responses to each of the Scarborough EPs. For this EP it required 4 weeks from 11 July 2023.

- The timeframes were required because Woodside had sent responses on multiple EPs in short succession despite having had a significant amount of time to prepare some of its responses e.g. Woodside had had over 7 months to consider GAP's last submission on this EP and on another Scarborough EP (Drilling and Completions).
- GAP was experiencing a high volume of requests for consultation on other Woodside projects and those of other proponents due to the backlog of consultation requests following clarity on the Santos NA Barossa Pty Ltd v Tipakalippa [2022] FCAFC 193 appeal decision.
- Woodside had refused to provide GAP with additional information on the Scarborough Subsea EP despite repeated requests. The first time GAP saw detail on this EP was on 30 May 2023 when it was published by NOPSEMA. GAP required considerable time to consider and respond to this complex document.
- GAP referred to Woodside's statement in several of its recent correspondences: 'given the well-informed feedback received together with the length of time the [Environment Plan] has been open for comment, any further feedback GAP provides on the [Environment Plan] will be accepted and considered as part of ongoing consultation.' GAP stated that while this statement was not clear, GAP assumed Woodside was implying that the total period the EP had been open for comment was the primary determinant of 'reasonable period'. However, GAP pointed out that NOPSEMA's consultation guideline states clearly: Information may well need to be provided in an iterative manner, as finer detail and precision is developed through the consultation process."

 GAP has found this to be true.
- GAP further stated that NOPSEMA's guideline does not clarify whether the 'reasonable period' relates to the overall period of consultation or each piece of information provided. GAP stated it had discussed this issue in previous correspondence to Woodside and NOPSEMA. GAP stated given that the period must be sufficient to allow GAP to make an informed assessment, it must tie in with the time at which sufficient information was provided i.e. if insufficient information has been provided, time will not start to run. At a minimum, it would appear that the 'reasonable period' would commence from the provision of new or additional information.
- GAP stated it believed it is more relevant to consider when information was last provided when determining whether a 'reasonable period' had been provided.
- GAP concluded by stating it believed Woodside's consultation with GAP did not meet NOPSEMA's guidelines and Woodside had not met its consultation obligations under reg 11A of the Regulations nor demonstrated the criteria for acceptance of the Environment Plans in reg 10A.
 - On 23 June 2023, Woodside thanked GAP via email for GAP's letter dated 13 June 2023 sent to NOPSEMA and cc'd to Woodside. Woodside stated:
- Based on the long history of consultation with GAP, Woodside was comfortable with the consultation between Woodside and GAP which had allowed GAP many opportunities to provide Woodside with its claims and objections as they related to the proposed activities under the four Scarborugh EPs.
- Woodside stated it remained open to consulting with GAP and additional feedback GAP provided on the Scarborough EPs would be accepted and considered as part of ongoing consultation.
- Woodside further stated that as per Woodside's ongoing consultation approach, feedback and comments received would continue to be assessed and responded to, as appropriate, through the life of an EP, including during EP assessment and throughout the duration of the accepted EP, in accordance with the intended outcome of consultation.
 - On 11 July 2023, GAP sent a letter to Woodside and the regulator that contained an objection to the acceptance of the SITI EP.
 - On 27 July 2023, Woodside responded to GAP thanking them for their correspondence and responding to new claims. Woodside outlined its attempts to engage in genuine, two-way consultation with Greenpeace since December 2018 and that it continues to be open to consulting further. The responses to new claims included the following:
- Claims of failure to consult effectively were addressed with the methodology that Woodside apply to non government groups or organisations and outlining correspondence from Woodside which had been missed by GAP in their letter.

- GAP claims it has been dissatisfied with the way it has been consulted were addressed with evidence of ongoing direct consultation as well opportunities for GAP to attend a variety of community-based information sessions.
- Lack of sufficient information claims have been addressed by evidence of a meeting and four detailed responses to GAP correspondence on the SITI EP.
- Requests by GAP for a copy of EP were denied for a number of reasons.
- Claims of lack of sufficient time for consultation has been addressed as correspondence between Woodside and Greenpeace on this EP has been taking place since 8 April 2022.
- The methodology outlining how Woodside meets NOPSEMA consultation requirements was provided as requested to demonstrate sufficient time and information.

 On 27 July 2023, Woodside resent an email in response to an out of office reply.
 - On 3 August 2023, Woodside wrote to NOPSEMA sharing Greenpeace's stance on Woodside which it had posted on its website and shared with media on 2 August 2023 stating the following:
- A public statement by Greenpeace stating its objective to "use every means possible to stop Woodside".
- In its statement Greenpeace says: "Greenpeace will oppose Woodside's Burrup Hub at every step, and that means stopping its dangerous seismic blasting."
 - Woodside asked that NOPSEMA note the actions threatened by Greenpeace.

Summary of Feedback, Objection or Claim	Woodside Energy's Assessment of Merits of Feedback, Objection or Claim and its Response	Environment Plan Controls
GAP has responded and provided feedback, objections and claims relating to: Relevant person status and consultation process Indirect Impacts of GHG emissions GAP requested further information: Additional information required relating to description of the titleholder, EP process, description of activity, description of the existing environment, description of stakeholder consultation, environmental risk	Woodside assessed the feedback on merit as it applies to this EP and a summary of responses has been provided to address specific claims and objections raised on the proposed activity, where appropriate. Woodside considers information in the EP including summaries of modelling and studies relating to the PAP to be sufficient to address feedback, objection and claims received as well as requests for additional information. No amendments have been made to the EP in relation to any of the feedback, objections or claims raised. Woodside has provided responses to feedback received as shown above. Woodside engages in ongoing consultation throughout the life of an EP. Woodside notes that further feedback may be received as part of ongoing consultation. Should feedback be received after the EP has been accepted, it will be assessed and, where appropriate, Woodside will apply its Management of Change and Revision process (see Section 7).	Woodside has consulted GAP in the course of preparing this EP. Woodside has assessed the claims or objections raised by GAP. No additional measures or controls have been put in place. Woodside considers the measures and controls described within this EP address the potential impact from the proposed activities on GAP's functions, interests or activities.

assessment, performance outcomes, standards and measurement criteria and implementation strategy.

- GAP requested a list of thirdparty documents that were referenced in the Scarborough Offshore Project Proposal but do not appear to be publicly available and that GAP believe may be relevant to the activities outlined in the Information Sheet.
- GAP requested a copy of the EP once it has been drafted.

Australian Conservation Foundation (ACF)

Woodside has discharged its obligations for consultation under Regulation 11A(1) and consultation with Australian Conservation Foundation (ACF) for the purpose of 11A(1) is complete. Sufficient information and a reasonable period have been provided, as described in Section 5.5 of the EP. Specifically:

- Consultation Information Sheet publicly available on the Woodside website since September 2022.
- Woodside published advertisements in a national, state and relevant local newspapers on 19 October 2022 advising of the proposed activities and requesting feedback.
- Consultation Information provided to ACF on 21 September 2022 based on their function, interest and activities.
- Woodside has addressed and responded to the ACF over an 11 month period.

Summary of information provided and record of consultation:

- On 21 September 2022, Woodside emailed ACF advising of the proposed activity (Appendix F, reference 1.29) and provided a Consultation Information Sheet and Consultation FAQ.
- On 27 September 2022, ACF / EDO responded via email on a related proposed activity and advised it would like to meet with Woodside to discuss the proposed activity. The ACF / EDO requested most recently submitted version of the environment plan.
- On 29 September 2022 Woodside responded to ACF offering a meeting on 10 October 2022.

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- Woodside advised it would brief ACF on the Scarborough Project and associated activities.
- In the meeting Woodside will also confirm information already provided on topics raised by ACF in correspondence and during consultation (relating to other proposed activities). Woodside encouraged ACF to discuss issues ACF has in relation to the environment plans with regard to ACF's functions, interests and activities.
- In the email from EDO, copies of the most recently submitted EPs were requested. It was suggested those might assist ACF to prepare for the meeting and might assist ACF to assess possible consequences of the proposed activity on its functions, interests and activities. Given the amount of correspondence received from ACF, ACF's public campaign and current court proceedings regarding the Scarborough Project initiated by ACF, it appeared that that ACF is already adequately well prepared to outline its functions, interests and activities regarding Woodside's activities.
- Woodside confirmed ACF has already been provided with the Offshore Project Proposal (OPP) for the Scarborough Project (public comment period 5 July 30 August 2019) as well as full versions of each of the relevant EPs and summary information on each of the activities proposed under each of the relevant EPs. Woodside also confirmed the nature of each of the proposed activities (seismic, drilling and completions, seabed intervention and trunkline installation activities), as well as the location and description of these activities as set out in each of the EPs and summary information documents has not changed and remains the same in the recently submitted versions of the EPs.
- Woodside advised that additional information on various topics has also been provided to ACF in the course of consultation on the EPs and, where that has been incorporated in updated versions of the EPs, that has been made clear to ACF.
 - On 5 October 2022 ACF responded and provided its availability to meet via video conference.
 - On 6 October 2022, Woodside emailed ACF details pertaining to the meeting and confirming the meeting date of 11 October 2022.
- On 11 October 2022, Woodside provided a briefing to ACF via video conference on the proposed activity as well as other Scarborough Project activities and their associated EPs. The briefing covered:
- Scarborough project overview
- Description of specific proposed activities (including this proposed activity) along with a map of the OA.
 - On 11 October 2022, Woodside emailed ACF to thank them for the meeting. At ACF's request, Woodside resent the consultation information it provided to ACF on 21 September 2022 and followed up with the request for feedback.
 - On 20 March 2023, Woodside emailed ACF:
- Woodside thanked ACF for its discussion on 11 October 2022 on each of the activities proposed under its Scarborough Environment Plans (EPs).
- Woodside noted ACF's input provided us with an understanding of ACF's interest and concerns in relation to the relevant Scarborough EPs.
- Woodside attached an updated Consultation Information Sheet and advised that revisions of all Woodside's EPs (including the Subsea EP) will be available on the NOPSEMA website once submitted and accepted.
- On 7 June 2023, Woodside emailed ACF thanking ACF for the meeting held on 11 October 2022 which continued consultation on the Scarborough Project and each of
 the activities proposed under Woodside's Scarborough Project EPs. With regard to this EP, Woodside acknowledged ACF's well-informed questions about the proposed
 activities and ACF's input.
 - Woodside stated it provided a summary of the issues raised by ACF in the 11 October meeting together with Woodside's responses and some clarifying information (in addition to the information Woodside emailed to ACF on 12 September 2022 in response to previous correspondence from ACF to Woodside). Attachment A sent with this email contained a summary of the issues raised in the meeting and Woodside's responses including:

- In response to Woodside confirming with certainty that there is no risk of oil spills from Scarborough reservoir as there is no liquid component to the reservoir, Woodside confirmed there has been extensive sampling and the reservoir is well understood and that Risk and management responses are set out in this EP.
- 1. Regarding the proposed drilling activities having any acoustic impacts, Woodside stated it has undertaken a comprehensive assessment of acoustic emissions for NOPSEMA to assess in accordance with the regulations.
- Regarding the number of wells that will be drilled, Woodside the PAP for this EP, is proposed to consist of 8 wells with the potential for 2 additional contingency wells.
- 2. Regarding Woodside considering more recent studies in relation to whale shark data, Woodside confirmed all available data is included in this EP and that whale sharks were not expected to be present in the EMBA.
- Woodside stated that given the meeting, ACF's feedback received and responded to in the meeting, together with the length of time the EP has been open for comment, any further feedback ACF provides will be accepted and considered as part of ongoing consultation.

Summary of Feedback, Objection or Woodside Energy's Assessment of Merits of Feedback, Objection **Environment Plan Controls** Claim or Claim and its Response ACF has requested a full copy of At the time of meeting with ACF on 11 October 2022, Woodside had not Woodside considers the measures and controls described recently submitted EPs (relating to other yet submitted the draft EP for this proposed activity to NOPSEMA as it within this EP address the potential impact from the Scarborough activities) for its review in was in the process of developing the EP as well as consulting with ACF proposed activities on ACF's functions, interests or on a number of other Scarborough activities. Woodside has advised addition to the consultation information. activities. provided. that revisions of all Woodside's EPs (including the Subsea EP) will be No additional measures or controls are required. available on the NOPSEMA website once submitted and accepted. ACF has met with Woodside and provided additional consultation Additional information on various topics has been provided to ACF in the course of consultation on this EP. information on the broader Scarborough activities, including this proposed Woodside engages in ongoing consultation throughout the life of an EP. activity. Woodside notes that further feedback may be received as part of Whilst feedback has been received. ongoing consultation. Should feedback be received after the EP has there were no objections or claims. been accepted, it will be assessed and, where appropriate. Woodside will apply its Management of Change and Revision process (see Section 7).

The Wilderness Society (TWS)

Woodside has discharged its obligations for consultation under Regulation 11A(1) and consultation with The Wilderness Society (TWS) for the purpose of 11A(1) is complete. Sufficient information and a reasonable period have been provided, as described in Section 5.5 of the EP. Specifically:

Consultation Information Sheet publicly available on the Woodside website since September 2022.

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- Woodside published advertisements in a national, state and relevant local newspapers on 19 October 2022 advising of the proposed activities and requesting feedback.
- Consultation Information provided to TWS on 21 September 2022 based on their function, interest and activities.
- Woodside has addressed and responded to TWS over an 11 month period.

Summary of information provided and record of consultation:

- On 21 September 2022, Woodside emailed TWS advising of the proposed activity (Appendix F, reference 1.35) and provided a Consultation Information Sheet and Consultation FAQ.
- On 6 October 2022, Woodside provided a briefing to TWS on the proposed activities and the broader Scarborough Project. The briefing covered:
- Scarborough project overview
- Description of specific proposed activities (including this proposed activity) along with a map of the OA.
- On 13 October 2022, Woodside sent a follow-up email (Appendix F, reference 1.88).
- On 17 October 2022 Woodside emailed TWS:

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- Woodside attached a meeting summary which included responses to address specific claims and objections raised on the proposed activity, where appropriate. The
 following topics were covered relevant to the broader Scarborough activities, including this proposed activity:
- The decision to consult The Wilderness Society with regard to Woodside's proposed activities for the purpose of understanding how Woodside may mitigate any adverse impacts its activities may have on The Wilderness Society's functions, interests and activities;
- The work undertaken to understand marine fauna populations and their migration patterns in relation to Woodside's proposed activities and the controls in place to mitigate any potential impacts, including, but not limited to, acoustic surveillance and marine fauna observers;
- In response to questions raised by The Wilderness Society during the meeting regarding perceived environmental impacts, Woodside confirmed that:
 - A significant number of scientific studies and findings informed the Scarborough OPP and subsequent EPs, including Woodside-supported studies undertaken by the Australian Institute of Marine Science and The University of Western Australia;
 - Scientific studies and modelling were also used to inform the impact assessment in relevant EPs which demonstrate the activities (i.e., seismic acquisition)
 will be performed in a manner that prevents injury to whales, and minimises the potential for biologically significant behavioural disturbance;
 - o Continuous consideration of cumulative impacts for the proposed activities under each EP, as was previously considered for the OPP; and
 - The Scarborough pipeline and subsea infrastructure is designed to be removed from the seabed, which would be the subject of a future decommissioning EP and approval.
- Regarding The Wilderness Society's queries in relation to Woodside's engagement with Traditional Owners on the relevant EPs, Woodside confirmed it has undertaken
 extensive engagement with the relevant Traditional Owners and Traditional Owner representative groups with respect to the proposed activities. Woodside confirmed
 this engagement included archaeological and ethnographic surveys, which have informed the Scarborough EPs.
- In relation to The Wilderness Society's query regarding zooplankton and any potential impacts from the proposed activities on the broader food chain, Woodside confirmed scientific studies and modelling have been used to assess and ensure an ALARP and acceptable approach to activities.
- Woodside noted that no new concerns or queries have been raised by The Wilderness Society directly to Woodside that have not already been addressed by Woodside
 in each of the EPs discussed.
- On 6 February 2023, Woodside emailed TWS with an update on the proposed activity (Appendix F, reference 1.159) and provided an updated Consultation Information Sheet
- On 22 February 2023, Woodside sent a follow-up email (Appendix F, reference 1.192).

Summary of Feedback, Objection or Claim	Woodside Energy's Assessment of Merits of Feedback, Objection or Claim and its Response	Environment Plan Controls
Woodside has received feedback from TWS during the course of consultation on a range of Woodside EPs covering the broader Scarborough activities. Feedback was predominantly related to impacts from seismic activities, but broader feedback, objections or claims	and objections raised on the proposed activity, where appropriate. Woodside has outlined its existing processes relating to the topics raised by TWS during consultation.	Woodside has consulted TWS in the course of preparing this EP. Woodside has assessed the claims or objections raised by TWS. No additional measures or controls have been put in place. Woodside considers the measures and controls described within this EP address the potential impact from the

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relating to the proposed activity included:

Mitigation of adverse impacts Woodside's activities may have on TWS' functions, interests and activities Work undertaken to understand marine fauna populations and their migration patterns

- Positioning of infrastructure
- Supported scientific studies
- Cumulative impacts
- Decommissioning
- Engagement with Traditional Owners
- Impacts to Zooplankton

No amendments have been made to the EP in relation to any of the feedback, objections or claims raised. Woodside has provided responses to feedback received as shown above.

Woodside engages in ongoing consultation throughout the life of an EP. Woodside notes that further feedback may be received as part of ongoing consultation. Should feedback be received after the EP has been accepted, it will be assessed and, where appropriate, Woodside will apply its Management of Change and Revision process (see **Section 7**).

proposed activities on TWS's functions, interests or activities.

Say No to Scarborough Gas (SNTSG)

Woodside has discharged its obligations for consultation under Regulation 11A(1) and consultation with Say No to Scarborough Gas (SNTSG) for the purpose of 11A(1) is complete. Sufficient information and a reasonable period have been provided, as described in Section 5.5 of the EP. Specifically:

- Consultation Information Sheet publicly available on the Woodside website since September 2022.
- Woodside published advertisements in a national, state and relevant local newspapers on 19 October 2022 advising of the proposed activities and requesting feedback.
- Consultation Information provided to SNTG on 21 September 2022 based on their function, interest and activities.
- Woodside has addressed and responded to SNTG over an 11 month period.

Summary of information provided and record of consultation:

- On 21 September 2022, Woodside emailed SNTSG advising of the proposed activity (Appendix F, reference 1.36) and provided a Consultation Information Sheet and Consultation FAQ.
- On 4 October 2022, Woodside emailed SNTSG confirming its availability to meet on 10 October 2022 regarding a number of Scarborough activities.
- On 5 October 2022, SNTSG emailed Woodside advising it was unavailable to meet on 10 October 2022 and requested to meet on 13 October 2022.

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- On 6 October 2022 Woodside emailed SNTSG confirming its availability to meet on 13 October 2022.
- On 11 October 2022 SNTSG emailed Woodside in response to other Scarborough EP consultation and referenced that its main focus of the scheduled meeting on 13 October 2022 was to discuss a separate specific proposed Woodside activity.
- SNTSG noted that more information about all of the EPs will be valued but SNTSG will require more time after the meeting to give feedback and go through a thorough consultation process.
- On 11 October 2022 Woodside emailed SNTSG:
- Woodside confirmed the purpose of the meeting is to provide context and an overview on the upcoming activities for the Scarborough Project to allow for feedback and information to be provided as relevant.
- Woodside advised will discuss a number of Scarborough EPs.
- Woodside encouraged Say No to Scarborough Gas to share any interests, claims or concerns it has in relation to these EPs to inform Woodside of appropriate measures
 we may take to mitigate any adverse impacts Woodside's activities may have.
- On 12 October 2022, Woodside followed-up on the 21 September 2022 email (Appendix F, reference 1.63).
- On 12 October 2022 SNTSG emailed Woodside and advised it will endeavour to give as much feedback as possible on the day and as soon it can after the 13 October 2022 meeting.
- On 13 October 2022, Woodside provided a briefing to SNTSG on the proposed activities and the broader Scarborough Project. The briefing covered:

Scarborough project overview

- Description of specific proposed activities (including this proposed activity) along with a map of the OA.
- During the meeting SNTSG noted it will provide Woodside, early in the week commencing Monday, 17 October 2022, with a summary of concerns it has in relation to the relevant EPs.
- On 14 October 2022 Woodside emailed SNTSG:
- Woodside acknowledged the EPs discussed during the meeting and noted the date of week commencing 17 October 2022 for SNTSG to provide feedback.
- At the request of SNTSG, Woodside attached consultation information on a related Scarborough EP.
- Woodside encouraged SNTSG to visit the Consultation Activities page of the Woodside Energy website, where all Consultation Information Sheets can be located, and
 to sign up to the mailing list on the Consultation Activities page, enabling it to receive notifications when new Information Sheets are released
- On 16 November 2022, SNTSG emailed Woodside and included a letter: The letter contained a number of claims/objections relating to the proposed activity covering the following topics:

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- Community consultation
- EPs are not consistent with existing conservation plans or ecological principles
- Independence of participants in Environmental Risk and Impact Identification workshop
- Emissions
- Lighting
- Ecosystem impacts
- On 20 March 2023, Woodside emailed SNTSG and included responses to address specific claims and objections raised during the 13 October 2022 meeting, and the 16 November 2023 correspondence regarding the proposed activity, where appropriate:
- Woodside advised consultation requirements set out in Reg 11A of the Environment Regulations have been complied with in relation to the consultation process for the EPs Woodside detailed during its consultation meeting with SNTSG on 13 October 2022. Woodside's consultation process has continued to evolve based on ongoing Regulator feedback. Where feedback is received which informs Woodside of measures that it may take to mitigate the potential adverse environmental impacts from the Petroleum Activities Program (PAP), Woodside incorporates this feedback into its EP, and where appropriate, it will introduce additional controls to ensure risks are managed to ALARP and an acceptable level.
- Woodside advised EPs are published initially on NOPSEMA's website and may change whilst under assessment prior to the final EP being accepted. Following the initial
 public comment period, an additional round of stakeholder Consultation Information Sheets and advertisements in local publications were issued during the development
 of the EP.
- Woodside confirmed it has undertaken extensive engagement with the relevant Traditional Owners and Traditional Owner representative groups with respect to proposed
 activities. Woodside confirms this engagement included archaeological and ethnographic surveys, which have informed the Scarborough EPs.
- Woodside confirmed it has not undertaken any of the activities which are the subject of environment approvals which are currently under assessment.
- The PAP is carried out in a manner consistent with the principles of ecologically sustainable development (ESD) (as defined in Section 3A of the Commonwealth Environment Protection and Biodiversity Conservation Act 1999 (EPBC Act)).
- The Subsea EP provides an assessment of the relevant activities against the Blue Whale Conservation Management Plan, including relevant Environmental Performance Objectives (EPOs).
- The participants at the Environmental Risk and Impact Identification workshop were from a multi-disciplinary background, including external environmental consultants supporting the EP development, with extensive experience and understanding across all topics highlighted. The participants' breadth of knowledge, training and experience was sufficient to reasonably assure that the hazards that may arise in connection with the petroleum activity in this EP were identified.
- Woodside confirmed concerns related to carbon and the impact on climate change from Scarborough gas are not relevant to the Scarborough Subsea EP. Woodside confirmed the Subsea EP assesses both direct and indirect impacts and risks associated with the PAP, having regard to the nature and scale of the proposed PAP. The extraction of Scarborough gas for onshore processing is not within the scope of the activity described in the Subsea EP. Therefore, indirect impacts and risks arising from the onshore processing of Scarborough gas are not considered indirect impacts/risks of the PAP for the Subsea EP but may be evaluated in Scarborough EPs as appropriate. GHG emissions associated with the subsea activity (i.e., fuel combustion from project vessels) are considered in the EP.
- Woodside confirmed the Subsea EP (Recovery Plan and Threat Abatement Plan Assessment) sets out the assessment that Woodside has undertaken to demonstrate that the PAP is not inconsistent with any relevant recovery plans or threat abatement plans. This includes a list of the objectives and (where relevant) the action areas of these plans, and also describes whether these objectives / action areas are applicable to government, the Titleholder, and/or the PAP.

- Woodside confirmed Routine Light Emissions associated with external lighting on Project Vessels from the subsea activity have been considered in the Subsea EP. For the purpose of preparing the Subsea EP, receptors that have important habitat within a 20 km radius of the Operational Area were considered for the impact assessment, based on recommendations of the National Light Pollution Guidelines for Wildlife Including Marine Turtles, Seabirds and Migratory Shorebirds (NLPG). The impact assessment determined that light emissions from project vessels will not result in an impact greater than a localised and temporary disturbance to marine fauna in the vicinity of the Operational Area, with no lasting effect to any species.
- Woodside confirmed the Subsea EP will provide a risk/impact assessment to all relevant ecological parameters.

Summary of Feedback, Objection or Claim	Woodside Energy's Assessment of Merits of Feedback, Objection or Claim and its Response	Environment Plan Controls
Following a briefing with Woodside, SNTSG has provided feedback, objections and claims relating to: Community consultation EPs are not consistent with existing conservation plans or ecological principles Independence of participants in Environmental Risk and Impact Identification workshop Emissions Lighting Ecosystem impacts	Woodside assessed the feedback on merit as it applies to this EP and a summary of responses has been provided to address specific claims and objections raised on the proposed activity, where appropriate. Woodside has provided specific information from the EP to address feedback, objections and claims, as well as Woodside's consultation approach and methodology to identify relevant persons (see Section 5.7), noting the draft EP was not publicly available at the time of the meeting with SNTSG. No amendments have been made to the EP in relation to any of the feedback, objections or claims raised. Woodside has provided responses to feedback received as shown above. Woodside engages in ongoing consultation throughout the life of an EP. Woodside notes that further feedback may be received as part of ongoing consultation. Should feedback be received after the EP has been accepted, it will be assessed and, where appropriate, Woodside will apply its Management of Change and Revision process (see Section 7).	Woodside has consulted SNTSG in the course of preparing this EP. Woodside has assessed the claims or objections raised by SNTSG. No additional measures or controls have been put in place. Woodside considers the measures and controls described within this EP address the potential impact from the proposed activities on SNTSG's functions, interests or activities.

350 Australia (350A)

Woodside has discharged its obligations for consultation under Regulation 11A(1) and consultation with 350 Australia (350A) for the purpose of 11A(1) is complete. Sufficient information and a reasonable period have been provided, as described in Section 5.5 of the EP. Specifically:

- Consultation Information Sheet publicly available on the Woodside website since September 2022.
- Woodside published advertisements in a national, state and relevant local newspapers on 19 October 2022 advising of the proposed activities and requesting feedback.

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- Consultation Information provided to 350A on 21 September 2022 based on their function, interest and activities.
- Woodside has addressed and responded to 350A over an 11 month period.

- On 21 September 2022 Woodside emailed 350A advising of the proposed activity (Appendix F, reference 1.43) and provided a Consultation Information Sheet and Consultation FAQ.
- On 13 October 2022 Woodside followed-up via email (Appendix F, reference 1.90).
- On 24 October 2022, 350A emailed Woodside to advise it had not yet had an opportunity to review the information and asked for an extension on the feedback date.
- On 24 October 2022, Woodside emailed 350A to advise that the feedback period for 350A had been extended to COB 28 October 2022.
- On 29 November 2022, Woodside emailed 350A to acknowledge that Woodside did not receive feedback by the extended deadline to assist informing the preparation of its environment plan. However, Woodside confirmed that it remains open to receiving feedback during the life of the project.
- On 6 February 2023, Woodside emailed 350A with an update on the proposed activity (Appendix F, reference 1.155) and provided an updated Consultation Information Sheet
- On 22 February 2023, Woodside sent a follow up email (Appendix F, Reference 1.188).

Summary of Feedback, Objection or Claim	Woodside Energy's Assessment of Merits of Feedback, Objection or Claim and its Response	Environment Plan Controls
No feedback, objections or claims received despite follow up.	At 350A's request, Woodside provided additional time for feedback. No feedback has been received.	No additional measures or controls are required.
	Woodside engages in ongoing consultation throughout the life of an EP. Woodside notes that further feedback may be received as part of ongoing consultation. Should feedback be received after the EP has been accepted, it will be assessed and, where appropriate, Woodside will apply its Management of Change and Revision process (see Section 7).	

Australian Marine Conservation Society (AMCS)

Woodside has discharged its obligations for consultation under Regulation 11A(1) and consultation with Australian Marine Conservation Society (AMCS) for the purpose of 11A(1) is complete. Sufficient information and a reasonable period have been provided, as described in Section 5.5 of the EP. Specifically:

Consultation Information Sheet publicly available on the Woodside website since September 2022.

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- Woodside published advertisements in a national, state and relevant local newspapers on 19 October 2022 advising of the proposed activities and requesting feedback.
- Consultation Information provided to AMCS on 21 September 2022 based on their function, interest and activities.
- Woodside has sent a follow up emails seeking feedback on the proposed activities.
- Woodside has provided the AMCS with the opportunity to provide feedback over an 11 month period.

- On 21 September 2022, Woodside emailed AMCS advising of the proposed activity (Appendix F, reference 1.32) and provided a Consultation Information Sheet and Consultation FAQ.
- On 13 October 2022, Woodside followed-up via email (Appendix F, reference 1.92).
- On 6 February 2023, Woodside emailed AMCS with an update on the proposed activity (Appendix F, reference 1.156) and provided an updated Consultation Information Sheet.
- On 22 February 2023, Woodside followed-up via email (Appendix F, reference 1.189).

	Woodside Energy's Assessment of Merits of Feedback, Objection or Claim and its Response	Environment Plan Controls
received despite follow up.	Woodside engages in ongoing consultation throughout the life of an EP. Woodside notes that further feedback may be received as part of ongoing consultation. Should feedback be received after the EP has been accepted, it will be assessed and, where appropriate, Woodside will apply its Management of Change and Revision process (see Section 7).	No additional measures or controls are required.

Sea Shepherd Australia (SSA)

Woodside considers it has discharged its obligations for consultation under Regulation 11A(1). Sufficient time, information and opportunity has been provided as summarised below:

- Consultation Information Sheet publicly available on the Woodside website since September 2022.
- Woodside published advertisements in a national, state and relevant local newspapers on 19 October 2022 advising of the proposed activities and requesting feedback.
- Consultation Information provided to SSA on 21 September 2022 based on their function, interest and activities.

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- Woodside has sent a follow up emails seeking feedback on the proposed activities.
- Woodside has provided the SSA with the opportunity to provide feedback over an 11 month period.

- On 21 September 2022, Woodside emailed SSA advising of the proposed activity (Appendix F, reference 1.38) and provided a Consultation Information Sheet and Consultation FAQ.
- On 13 October 2022, Woodside followed-up via email (Appendix F, reference 1.94).
- On 6 February 2023, Woodside emailed SSA with an update on the proposed activity (Appendix F, reference 1.158) and provided an updated Consultation Information Sheet.
- On 22 February 2023, Woodside followed-up via email (Appendix F, reference 1.191).

Summary of Feedback, Objection or Claim	Woodside Energy's Assessment of Merits of Feedback, Objection or Claim and its Response	Environment Plan Controls
No feedback, objections or claims received despite follow up.	Woodside engages in ongoing consultation throughout the life of an EP. Woodside notes that further feedback may be received as part of ongoing consultation. Should feedback be received after the EP has been accepted, it will be assessed and, where appropriate, Woodside will apply its Management of Change and Revision process (see Section 7).	No additional measures or controls are required.

Other
and Save Our Songlines
Woodside has consulted in accordance with Regulation 11A with and a reasonable period of time and opportunity to make an informed assessment of the possible consequences of the activities on their functions, interests or activities in their individual Traditional Owner and eNGO capacities.
Woodside has addressed each objection or claim made by and SOS, and has implemented controls in response to topics raised by them during consultation as well as in response to objections and claims they have made. Woodside has consulted and SOS both individually and together, providing opportunities for any and all topics relating to their functions, interests and activities – and potential risks or impacts to their functions, interests and activities - to be discussed, including those relating to a fundamental objection to the Scarborough Project as well as those relating, in accordance with indigenous tradition, to spiritual and cultural heritage and values.

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For completeness, it is also noted that and and have also, from time to time, been members of Aboriginal Corporations who have been separately consulted as relevant persons by Woodside.
As demonstrated in the summary below and the consultation record that follows in Section 5.8, consultation with and sold sometimes and sold sometimes with Regulation 11A and is complete.
Summary
Sufficient information Woodside has, since at least 2022, provided information to and sold a
• Since at least 2022, and sold and SOS have been provided with and have been made aware of the Environment Plan, Fact Sheets and Information Sheets which set out details of the proposed activity, the location of the activity, the timing of the activity as well as the potential risks and impacts of the activity and on the basis of which and SOS could assess any potential impact on their cultural interests. The documents set out the information in various formats that provide many levels of detail – from the fulsome detail provided in the Environment Plan through to summary information and visual diagrams in the Fact Sheets and Information Sheets (written in plain English). Woodside also provided power point slides tailored to topics that and SOS have indicated are of interest to them. [Ref in particular: Woodside letter 23 September 2022; 13 October 2022 (see email from SOS dated 8 November 2022), EDO email 25 July 2023; EDO letter 4 October 2023; Meetings on 25 July 2023; 12 September 2023, 4 October 2023 and subsequent correspondence]]
• Information has been provided to an appropriate format for the information to be provided [Ref: 12 September 2023 meeting].
• The information in those documents as they relate to the activity description, the location of the activity and the potential risks and impacts of the activity have remained materially the same since the information was first provided in 2022. In some instances, activity scope has reduced and consequently, risks and impacts of the activity have been removed from scope. This has allowed and source and s
• In addition to the information provided, Woodside has had several meetings with and SOS since 2022 on Country and online in accordance with the meeting formats requested by and SOS. This EP or issues relevant to it, have been discussed at each of those meetings. [Ref: 13 March 2023; 25 July 2023; 12 September 2023; 4 October 2023].
 Woodside has on a number of occasions, confirmed to an an an and SOS the purpose of consultation and has provided NOPSEMA's Brochure "Consultation on offshore petroleum environment plans", Guideline "Guideline: Consultation in the course of preparing an environment plan" and Policy "Draft policy for managing gender-restricted information PL2098" [Ref for example: email 15 September 2023].
In meetings and correspondence:
o and SOS have confirmed that, since around 2022 they have received and read the Scarborough Project EP materials [most recently: see EDO email 4 October 2023]
o and SOS have raised specific issues and displayed an understanding of the activities under this Environment Plan as well as the broader Scarborough Project. [Ref Woodside 29 March 2023 email; 27 July 2023 email; meetings on 25 July 2023; 12 September 2023; 4 October 2023].

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	0	Since around 2022, and so
	0	scarborough EPs at once and confirmed they have information and "objections" to share on all Scarborough EPs as early as September 2022. From about June 2023, this position changed and and solvent and SOS expressly directed Woodside to consult on individual EPs. Woodside has been ready, willing and able to consult on all Scarborough EPs (including this EP) in correspondence and at meetings since consultation commenced and has attempted to do so [i.e. most recently 25 July 2023, 12 September 2023, 4 October 2023,] through the presentation and provision of information on all EPs as well as discussion on all EPs.
	0	Objections, claims and topics relevant to and sold and SOS and addressed by Woodside, were initially focused on Murujuga and included a focus on land-based impacts to Murujuga rock art, removal of Murujuga rock art, air emission impacts on Murujuga rock art, restriction to sites on the Burrup Peninsula and to plants and animals of Murujuga [Ref letter to Woodside 6 June 2022; letter to NOPSEMA 26 September 2022]. More recently, their focus has shifted to an interest in Sea Country and marine plants and animals [Ref for example Second Affidavit dated 7 September 2022]. As of mid-September 2023, they have identified Rosemary Island (near the Burrup Peninsula, and not near the EMBA or operations area) as being a place of particular cultural significance. Notably, the Second Affidavit dated 7 September 2023 stated that and SOS have information to share with Woodside and this information "needs to be shared at the appropriate place, namely on Country". However, the Second Affidavit did not identify Rosemary Island as being a culturally significant location or the only location at which that information could be shared with Woodside.
	0	Objections, claims and topics have been unclear or inconsistent in some instances – in one meeting indicated her concern was <i>not</i> pygmy blue whales (a focus of EP noise controls due to PBW distribution and behaviour) but humpback whales [Ref: meeting on 12 September 2023]. At the next meeting, Woodside was criticised for reflecting a position that humpback whales were a topic of specific interest to and SOS [Ref: meeting on 4 October 2023]. Generally speaking, has stated that whales carry important songlines, the whale Dreaming, and connection between land and sea [Second Affidavit dated 7 September 2023]. The EP contains several controls to manage potential risks and impacts to whales to ALARP and acceptable levels as well as controls that address risks relating to spiritual and cultural connections and values that Woodside understands are relevant to and SOS.
	0	Throughout consultation, it has been made clear to Woodside that and sold and sold a fundamental objection to the Scarborough Project and their preference is for the Scarborough Project to be stopped [Ref: 14 March 2023; 4 October 2023 meetings; SOS website].
	0	Throughout consultation, and so so have continued to state that they have further information they wish to tell Woodside and that they say Woodside requires for its Environment Plans. However, despite Woodside offering ample opportunities for consultation, including online and in person on Country, and so shave expressly refused to provide that information to Woodside [Ref 17 April 2023 letter and most recently 4 October 2023 meeting].
	0	On a number of occasions, and so shave declined to provide the information to Woodside but have been prepared to provide the information publicly [Affidavits of September 2023] or offered to provide the information to others [Ref: letter to NOPSEMA 26 September 2022; letter to NOPSEMA 4 October 2023; email to NOPSEMA 25 October 2023].
ļ	and proto to items	de has attended all meetings in listening mode ready to hear from and sold and SOS and also in presentation mode, ready, willing and able to present vide information on the activities proposed under the Environment Plan as well as on the broader Scarborough Project. In those meetings, Woodside has listened and topics raised by and SOS and has prepared and brought material in the form of presentations, tables, maps and video to share with and SOS. [Ref meetings on 14 March 2023; 25 July 2023; 12 September 2023; 4 October 2023 and presentations prepared for those meetings]
		neetings, Woodside has discussed with and sold and SOS, the controls Woodside has in place to manage topics relating to potential impacts and ating to spiritual and cultural connections and values that Woodside understands are relevant to and sold and sold. Woodside has also attended
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	ready, willing and able to answer questions and provide additional information as appropriate and when requested. In a number of instances, despite confirmation that Woodside would present on all of the activities under the Scarborough Project, and SOS expressly told Woodside that they did not want to hear from Woodside on the Scarborough project activities and instead directed Woodside to only discuss or present on specific aspects of each Environment Plan. Despite that direction, at some of those meetings, and SOS raised queries that related more broadly to other activities in the Scarborough Project. Woodside provided responses and information in relation to those questions [Ref: meetings and following correspondence on 14 March; 25 July; 12 September; 4 October 2023].
•	As part of consultation, Woodside has also taken time to show and SOS how the information and SOS have provided during consultation has been incorporated into the EPs and how Woodside has proposed control measures to manage potential impacts and risks to topics Woodside understands are relevant to them, including to request any input by and SOS into the proposed control measures or any other available measures. In some instances, in response to queries seeking their views, and SOS have explicitly stated that they do not have any views to share with Woodside on the control measures. [12 September; 4 October meetings]
•	In a number of instances, and SOS have indicated an impossibility to provide information to Woodside – in that they cannot yet, or that it is not possible to provide the information. For instance they have made statements to Woodside to the effect that there is information that they do not yet know and that they don't know when they will know (for example, information that the Murujuga rocks have not yet disclosed to them) [Ref 14 March 2023] or information that they will find out from animals who speak to them [Second affidavit September 2023 para 11] as well as information that comes to them from time-to-time in visions [12 September 2023 meeting].
•	During consultation, consistent with NOPSEMA's guidance and suggestions, Woodside has asked and SOS on a number of occasions whether there are other individuals who ought to be consulted. And SOS have made various references to MAC. In some instances, and sold and SOS did not provide an answer [Email to EDO 3 August 2023 and EDO response 9 August 2023]. Most recently, and sold stated words to the effect that "it is not [their] responsibility to identify relevant persons on Woodside's behalf and to distribute information to them". Consultation with and sold sharp and SOS has not otherwise identified any other groups or individuals who, in accordance with Indigenous tradition, may have spiritual and cultural connections to the environment that may be affected by the activity, or whom may have other communally held functions, activities or interests. [Ref example: Woodside email 15 Sept 2023 email; EDO email 19 September 2023].
•	In correspondence and meetings, Woodside has questioned what it has perceived to be a general refusal by and SOS to provide information to Woodside, including at meetings where and SOS had confirmed they would provide information [Ref meetings on 25 July 2023; 12 September 2023; 4 and 5 October 2023].
•	Throughout consultation, and so
•	Given those circumstances, and with a genuine concerted aim of attempting to manage potential impacts and risks to an and SOS and to more broadly understand their functions, interests and activities, as well as topics that might relate to a fundamental objection to the Scarborough Project and in accordance with Indigenous tradition, and SOS' potential spiritual cultural and connections and values, Woodside has reviewed publicly available information. This has included reviewing statement made to the Commonwealth Senate Standing Committee on Environment and Communications [Ref Opening Statement from Murujuga Aboriginal Corporation – Public Hearing, Perth – 20 April 2017], information provided by and soos on their SOS website, submissions made by and SOS to various Commonwealth government bodies [Ref: February 2022 and 19 October 2022 s10 ATSIHP Act applications] the United Nations [Ref: UN letter 22 September 2022], the Woodside Board [Ref June 2022], various government bodies [Ref NOPSEMA letters including 22 September 2022], at Annual General Meetings held by Woodside [Ref transcript Question time 19 May 2022], in proceedings against

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	NOPSEMA and Woodside in the Federal Court [Ref Affidavits dated August and September 2023] (WOPSEMA (No 2) [2023] FCA 1158] and in various Appeal Convenor processes. Topics, claims and objections in that information have been included in the EP where relevant and in brief, provide the following insights:
•	Information set out in the publicly available information shows that and solved in the Scarborough Project and the activities involved in the Scarborough Project.
•	Ms has expressed a view that MAC holds the key responsibility for the stewardship and management of the Land and Sea Country according to the Aboriginal Lore and Culture; MAC's work includes collecting environmental and heritage records to assist with compiling data [building a library] relevant to Law and Culture on sacred sites, including 42 islands of the Dampier Archipelago; MAC has been embraced by the community as the body for cultural knowledge and guidance which allows the community to speak with one spiritual and cultural voice and with strong cultural integrity. This means that some decisions or advice given by individuals previously, may not reflect the current and more valid cultural leadership that governs today [Ref: 20 April 2017 Opening Statement]. This position is at odds with the position being put forward by and SOS in consultation with Woodside.
•	and SOS hold a fundamental objection to the Scarborough Project [for example: SOS website; meetings on 14 March 2023 and 4 October 2023]
•	On a number of occasions, and and SOS have declined to provide the information to Woodside and have instead provided information publicly [Affidavits of September 2023] or offered to provide the information to others [Ref: letter to NOPSEMA 26 September 2022; letter to NOPSEMA 4 October 2023; EDO email to NOPSEMA 25 October 2023]
Rea	asonable period of time
•	is a former member of MAC. Woodside's engagement and correspondence with (as a MAC representative) date back an extended period to when discussions on the Scarborough Project commenced with MAC in around June 2018. Woodside has been consulting specifically with (as a MAC representative) date back an extended period to when discussions on the Scarborough Project commenced with MAC in around June 2018. Woodside has been consulting specifically with (as a MAC representative) date back an extended period to when discussions on the Scarborough Project commenced with MAC in around June 2018. Woodside has been consulting specifically with (as a MAC representative) date back an extended period to when discussions on the Scarborough Project commenced with MAC in around June 2018. Woodside has been consulting specifically with (as a MAC representative) date back an extended period to when discussions on the Scarborough Project commenced with MAC in around June 2018.
	that spans over 1 year which on an objective analysis fulfills Woodside's obligation to provide a reasonable period of time for consultation.
•	Woodside has accommodated and sold and sold and sold initial consultation requests for at least 4 weeks [Ref 8 November 2022 letter] and then, later in the consultation, requests for 6 weeks [Ref EDO letter 24 March 2023] between consultation meetings to enable them to provide information they wish to share.
•	and SOS have been made aware of the Scarborough Project and desire by Woodside to commence activities under each EP. Since at least August 2023, and SOS have been made aware that commencement of activities under the Scarborough Project is imminent and that, if they would like Woodside to consider their information prior to commencement of activities, they needed to provide any and all information to Woodside imminently [Ref: 15 Sept 2023; August 2023; Federal Court proceedings ([2023] FCA 1158); 4 October 2023 meeting]
•	Woodside notes the assertion by and SOS, through their legal representatives, that consultation is 'in its early stages' [Ref: EDO letter 10 August 2023]. This statement is contrary to the history of consultation, and to their recent confirmation that consultation indeed commenced in at least 2022 [EDO 4 October 2023 letter].
•	Having regard to the objective timeframe allowed by Woodside for consultation, the history of engagement between Woodside and the fact that Woodside has communicated timeframes for consultation, Woodside has met its obligation to provide and and SOS a reasonable period for consultation.
Rea	asonable opportunity
•	, and SOS have been provided a reasonable opportunity to consult in relation to this EP and all of the Scarborough EPs.

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•	There is a large body of correspondence, email and text messages which show Woodside's continual offers for consultation meetings for over a year. It is noteworthy that despite around 9 months of offers and attempts by Woodside to meet with and avoidance, a meeting only first took place at Hearson Cove in March 2023.
•	There have been at least six instances where Woodside has attended an agreed meeting venue on an agreed date, ready, willing and able to consult in person with and SOS. and and SOS have attended most agreed meetings, but have otherwise failed to attend or refused to attend [11 October 2022; 14 March 2023; 25 July 2023; 12 September 2023; 4 October 2023; 5 October 2023]
•	Since 2022, Woodside has expressed a willingness and openness to consult at any time and having regard to and SOS' preferred consultation methods [Ref: Allens letter 21 August 2023]. To further support the consultation process, Woodside also offered to engage in fortnightly meetings with and SOS. This offer was declined. [Ref 25 July 2023 meeting; emails from EDO 25 July, 27 July and 9 August 2023]
•	Woodside has respectfully accommodated delay to meetings or rescheduling of meetings where and SOS have requested that to occur.
•	Woodside has agreed with requests from and SOS in relation to meeting protocols. This has included significant efforts by Woodside to accommodate and and accommodate cultural requests by allocating female subject matter experts to prepare and attend meetings with and SOS where matters are otherwise managed by male subject matter experts for Woodside.
•	Upon request from, and SOS, Woodside has also nominated a specific woman at Woodside who is able to receive culturally sensitive information on behalf of Woodside (Ref 1 March 2023). Despite this, and SOS have declined to provide this information.
•	During the consultation, and so stated that they will provide information to Woodside by way of video and that they had just finished "one big dreaming story" [transcript 25 July 2023 meeting. Ref emails from EDO 15 July 2023, 9 August 2023]. Woodside waited for that information to be provided, only to be told at a later date that no video will be provided [Ref EDO emails post 25 July meeting; Woodside email 29 August 2023; EDO email 4 September 2023].
•	During the consultation, and SOS have informed Woodside, and made public statements that they have further information they want to provide to Woodside for its Scarborough Environment Plans [Second Affidavit dated 7 September 2023]. Notwithstanding numerous opportunities, and SOS have not provided any further information to Woodside. At the last meeting in October, and SOS did not present Woodside with any viable way to receive the information when Woodside informed and SOS that its employees were unable to attend consultation at Rosemary Island for cultural protection and safety reasons. (Ref: EDO email 25 October 2023]
•	Until around 12 September 2023, Woodside was told by and SOS that their preference was to meet at Murujuga [Ref 8 Nov 2023 letter]. It was previously suggested that Hearson Cove on the Burrup Peninsula in the Pilbara was and SOS' preferred on-Country location to share culturally sensitive information with Woodside [February 2023]. Woodside has confirmed on a number of occasions its willingness to attend on-Country to consult with and SOS at that location.
•	In the meeting on 12 September 2023, indicated that the preferred location was Rosemary Island and that Woodside would need to make arrangements (including chartering a boat) in order for and SOS to share information. This was the first time that had requested to consult at Rosemary Island. Woodside agreed to investigate arrangements to meet on Rosemary Island and proceeded to contract a vessel, at short notice, to take 6 people to Rosemary Island for the meeting and offering an opportunity to bring with her, 3 support people on the vessel. provided a list of 8 people (including 3 lawyers and men, after indicating the island was a women's island and the story to be shared there was women's business) and demanded that Woodside, at short notice, charter a larger vessel to accommodate that additional number of people. While investigating arrangements for the meeting, it was made clear to Woodside from other Traditional Owner groups that Woodside did not have cultural permission or spiritual protection to convene a meeting on Rosemary Island. When that information was communicated to and SOS, and expressed disappointment. A compromise was initially agreed involving Woodside
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	chartering a vessel to circumnavigate Rosemary Island so that and SOS could provide information to Woodside. When Woodside confirmed it could arrange this at short notice, withdrew the agreement and cancelled the meeting and declined to provide information to Woodside. (Ref 4 October 2023 transcript)
•	On 25 October 2023, EDO emailed NOPSEMA confirming that has not provided Woodside with information because, given the circumstances, there is no culturally safe manner in which can share her story with Woodside. EDO requested that NOPSEMA meet with can share her story with NOPSEMA [Ref EDO email dated 25 October 2023]
•	During the 4 October 2023 meeting, indicated there is broader community misalignment and difference on topics and information being presented by and SOS and expressed some emotion in relation to discussing those differences with the various members of the community. From the meeting and the way the message was delivered, Woodside staff apprehended that there is potential for physical and verbal exchanges between community members. Woodside considers it is not appropriate for Woodside to consult further on these issues in circumstances where Woodside will be brought into community cultural disagreements. It is also not appropriate for Woodside to expose its employees to behaviours and situations where psychosocial safety is not guaranteed, and that put the health and safety of those employees at risk, including mental and emotional health and wellbeing.
Со	nsultation capacities
•	and SOS have been consulted in their individual traditional owner and eNGO capacities. Notably:
	o pause or stop the Scarborough project or "Stop Scarborough Gas" [Ref for example SOS website; 14 March 2023 meeting; 4 October 2023 meeting].
•	has indicated she is a Kuruma Mardudhunera woman and has indicated she is a Mardudhunera woman. Woodside has consulted with the Kuruma and Mardudhunera people including through consultation with MAC, Wirrawandi Aboriginal Corporation (<i>WAC</i>), Ngarluma Aboriginal Corporation (<i>NAC</i>) and Robe River Aboriginal Corporations. Both have been consulted in their capacities as Traditional Custodians of Murujuga in so far as their interests relate, in accordance with indigenous tradition, to spiritual and cultural heritage and values. Further, the results from an ethnographic heritage assessment undertaken for the Scarborough Project development footprint identified no ethnographic sites, values or traditional interests relevant to this EP or the Scarborough Project [Ref MAC consultation]
•	As to individual interests,
•	Woodside has addressed in this EP, topics expressed to be of interest to and and an analysis. Controls that Woodside has either updated or implemented as a result of consultation with and and an analysis have been discussed with them and their views have been provided on them. The provided on them are the provided opportunity to consult. Despite this, she has not engaged in consultation in person since 25 July 2023 and, despite being invited, did not attend consultation meetings on 12 September or 4 and 5 October. Woodside has made enquiries directly to by email, phone calls and text messages and has sought confirmation from and the lawyers Woodside understood were acting for an analysis has declined to attend meetings.
•	During correspondence, in Court affidavits and at meetings with and and (in so far as attended those meetings), and have expressed a deep and emotional interest in topics they have covered. They have provided information to Woodside about "visions" that come to them individually [Ref for example 14 March and 12 September 2023 meeting], information that comes to them from ancestors from the grave [Ref for example 4 October meeting] messages that are communicated to them individually from Murujuga rocks [Ref for example 14 March 2023 meeting] and to their ability to listen and speak on behalf of all plants and animals [Affidavit 7 Sept 2023]. Stories about songlines have been communicated to Woodside as being "my stories" and songlines have been expressed as being personal [for example 4 October 2023]. Songlines have also been expressed to Woodside as having been recent and individually held, rather than ancient, group songlines, passed down in community [Ref 25 July 2023 meeting]. For example, and SOS expressed words to the effect that the whales is a "big dreaming story [they] just finished" [25 July 2023 meeting]. This may have been what was referenced as a being a first proposed response by video of storytelling

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generally and of storytelling on country [Ref EDO emails 25 July 2023 and 9 August 2023]
Conduct in consultation
 The process of consultation has limits. It is a statutory obligation that must be understood in a practical and reasonable way so that it is capable of performance. It can be one that is incapable of being complied with within a reasonable time. The consultation scheme must operate in a way that a Titleholder will be able to, with reasonable diligence, discharge its obligation to consult. The consultation obligation is an obligation that must be capable of practical and reasonable discharge by the person up whom it is imposed. Consultation does not require consent². In carrying out consultation, Titleholders are not required to wait indefinitely for a response. and SOS have made serious statements including that Woodside has caused delays in meetings, has misrepresented information is disrespectful, discriminatory and has breached protocols. In each instance, Woodside has expressed concern that the perceptions of consultation, and Woodside has taken time to address and clarify the issue in each instance. Despite challenging circumstances, Woodside personnel has maintained professionalism and integrity in genuine efforts to consult with an analysis of the instance. The provide and listen to information. In most instances, meetings have opened and closed amicably but, durit the progress of the meeting, Woodside employees have often been subjected to hostile, offensive language and behaviours, placing unacceptable strain on Woodsige personnel. This includes recent demands to meet on Rosemary Island, where cultural safety concerns were raised by the recognised traditional custodians. Woodsid does not consider these outcomes to be aligned with the consultation requirement. In circumstances where Woodside has fulfilled its obligations under reg 11A, Woodsidoes not consider it appropriate to continue to consult further with and SOS including because of these risks. Finally, Woodside has made clear to an and SOS that consultation is not to be used by parties as a mechanism to stall and delay
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- Consultation under Reg 11A is complete because sufficient information, a reasonable period of time and reasonable opportunity have been provided to and SOS in their individual Traditional Owner and eNGO capacities.
- The fact that relevant persons have requested further consultation does not mean that Woodside has not met its obligations under reg 11A. This is underscored in the current circumstances where further consultation is not reasonable and is not required in order to comply with reg 11A:
- persons being consulted have stated they have additional information they wish to share with Woodside for Woodside's EPs [Ref Federal Court proceedings] but then decline to share this information.
- persons being consulted have stated that information has not yet been revealed to them, is not yet known to them, it will be revealed 'in time', but also they do not know when it will be revealed to or known by them (for instance where the wisdom of Murujuga rocks have not yet spoken to them; when animals have not yet provided information to them or where they at various times, receive information in visions) [Ref meetings on 14 March 2023; Affidavits dated 17 August 2023; 12 September 2023]
- persons have affirmed that information about certain matters can only be disclosed to people "born as biological female and living as a female in accordance with their beliefs and customary practices" [Ref Affidavit 7 September 2023 para 12]
- further consultation exposes Woodside employees to unacceptable risk including psychosocial, health and safety risk.
- In all of the circumstances, consultation under Regulation 11A has been completed and Woodside has met its obligations under Regulation 11A.

- Woodside understands:
- is a Karuma Mardudhunera woman and a traditional custodian of Murujuga
- is a Mardudhunera woman and a traditional custodian of Murujuga
- Save Our Songlines is an organisation formed by and and and and are the same and and are the same are the same and are the same are the s

Historical Engagement

2017 - September 2022

Woodside has engaged with the Ngarluma and Mardudhunera communities on the Scarborough project since 2018 through their representative organisations including Murujuga Aboriginal Corporation, Yaburara and Coastal Mardudhunera Aboriginal Corporation (MAC), Wirrawandi Aboriginal Corporation and Ngarluma Aboriginal Corporation.

Woodside understands was a member of MAC since inception, was the formal of MAC between 2016 and 2017 and was a board member of MAC until 11 February 2022, and took part in discussions between Woodside and MAC on the Scarborough Project. During these two-way engagements, in the three years leading up

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¹ Santos NA Barossa Pty Ltd v Tipakalippa [2022] FCAFC 193 at [136], [138], [89], [95]

² F2023L00998ES Explanatory Statement issued by the authority of the Minister for Resources OPGGS (E) Regulations page 28

³ F2023L00998ES Explanatory Statement issued by the authority of the Minister for Resources OPGGS (E) Regulations page 30

	November 2021, Woodside was not made aware of any specific concerns of the state of
the Cul allo pre	ile a member of MAC, expressed a view that MAC holds the key responsibility for the stewardship and management of the Land and Sea Country according to Aboriginal Lore and Culture; MAC's work including collecting environmental and heritage records to assist with compiling data [building a library] relevant to Law and ture on sacred sites, including 42 islands of the Dampier Archipelago; MAC has been embraced by the community as the body for cultural knowledge and guidance which lows the community to speak with one spiritual and cultural voice and with strong cultural integrity. This means that some decisions or advice given by individuals viously, may not reflect the current and more valid cultural leadership that governs today [Ref Opening Statement from Murujuga Driginal Corporation – Public Hearing, Perth – 20 April 2017].
	e first time Woodside became aware of and social media (November 2021).
	er seeing the concerns, Woodside met or has attempted to meet with individuals involved in SOS to discuss the Scarborough project in other capacities and on numerous casions, including:
•	On 15 December 2021, Woodside held a meeting at the MAC office in Dampier with the MAC Board (including and Circle of Elders, to provide an overview of the Scarborough and Pluto Train 2 projects. (Evidence of this meeting supplied with the MAC correspondence in the Traditional Custodian part of this Table).
•	In February 2022, and and wrote to the (then) Federal Environment Minister requesting an assessment under s10 of the Aboriginal Torres Strait Islander Heritage Protection Act 1984 (Cth) regarding "threats to the Murujuga Aboriginal heritage posed by proposed Scarborough LNG" (2). This letter cited potential damage to Murujuga rock art due to industrial activity on the Burrup Peninsula and climate change. The letter also claimed that members of MAC had been subject to a "gag clause" (3).
•	On 21 March 2022, and and sent an email addressed to the Woodside sent an email addressed to the Woodside sent and sent an email addressed to the Woodside sent and sent an email addressed to the Woodside sent and sent an email addressed to the Woodside sent and sent an email addressed to the Woodside sent and sent addressed to the Woodside sent and sent and sent addressed to the Woodside sent addr
•	On 24 March 2022, there was an attempted virtual meeting over Microsoft Teams between Woodside, and and an and an attempted virtual meeting over Microsoft Teams between Woodside, and and an attempted virtual meeting over Microsoft Teams between Woodside, and an attempted virtual meeting over Microsoft Teams between Woodside, and an attempted virtual meeting over Microsoft Teams between Woodside, and an attempted virtual meeting over Microsoft Teams between Woodside, and an attempted virtual meeting over Microsoft Teams between Woodside, and an attempted virtual meeting over Microsoft Teams between Woodside, and an attempted virtual meeting over Microsoft Teams between Woodside, and an attempted virtual meeting over Microsoft Teams between Woodside, and an attempted virtual meeting over Microsoft Teams between Woodside, and an attempted virtual meeting over Microsoft Teams between Woodside, and an attempted virtual meeting over Microsoft Teams between Woodside, and an attempted virtual meeting over Microsoft Teams between Woodside, and attempted virtual meeting over Microsoft Teams between Woodside, and attempted virtual meeting over Microsoft Teams between Woodside, and attempted virtual meeting over Microsoft Teams between Woodside, and attempted virtual meeting over Microsoft Teams between Woodside, and attempted virtual meeting over Microsoft Teams between Woodside, and attempted virtual meeting over Microsoft Teams between Woodside, and attempted virtual meeting virtual meeting virtual meeting over Microsoft Teams between Woodside, and attempted virtual meeting virtua
•	Woodside noted that despite its representatives being online and waiting for 35 minutes, the meeting did not proceed due to technical issues. Woodside advised that it remained keen to understand Traditional Custodian concerns, including those matters that
•	On 24 March 2022, and SOS also emailed Woodside to advise that:
•	They were waiting to join the virtual meeting but there was no response. They were disappointed at this outcome and hoped to have a more formal meeting in times to come. Emails exchanged later that day extended Woodside's offer to hold further meetings. By this stage, there had been four attempts by Woodside to meet and discuss issues with and SOS. This was in addition to the previous three years of consultation with and and social with MAC.
•	On 6 June 2022, some seven months after SOS had launched its public campaign on social media, and social media, and social and social media, and social medi
•	Industrialisation of our globally significant Murujuga cultural landscape is causing impacts on rock art through pollution, physical displacement of rock art which is highly significant within our ongoing system of Aboriginal Law and culture, damage to other heritage sites, and restriction of access to sites of cultural and spiritual significance. These impacts on our cultural heritage will all be further exacerbated by the Scarborough gas developments and related activities. After being preserved and respected

for at least 50,000 years of continuous cultural and spiritual practice, Traditional Owners and Custodians are now seeing this degradation occur within our own lifetimes. As a result, industrial activity on the Burrup is already impacting our ability to practice cultural traditions and pass on our culture to future generations in accordance with our cultural obligations.

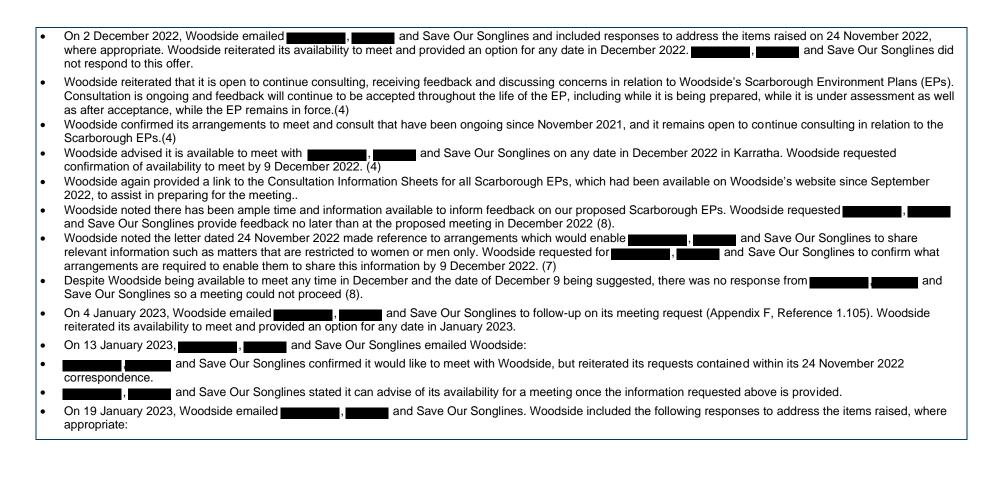
- We assert our rights to be consulted as 'relevant persons' in relation to cultural heritage impacts of the Scarborough gas development according to the OPGGS (E) regulations. [This relates to cultural values that are nationally protected as part of the *Dampier National Heritage Place* and values yet to be described as part of the proposed World Heritage Listing for the Burrup Peninsula and surrounds] (4)
- Given the lack of previous assessment of cultural heritage impacts and the significant uncertainties regarding these impacts a precautionary approach must be taken according to the ESD Principles in Section 3A of the EPBC Act. (5)
- Direct and indirect impacts on cultural heritage must be assessed now, and for all stages of the Scarborough development according to Section 527E of the Environmental Protection and Biodiversity Conservation (EPBC) Act and the EPBC Act Indirect Consequences Policy. (5)
- In order to comply with requirements to consult under the regulations, disclosure of certain information is required from Woodside.
- Woodside's own policy, the UNDRIP and other frameworks require that Traditional Owners are provided with the right of free, prior and informed consent regarding any cultural heritage impacts.
- Impacts to heritage values and other potential impacts associated with the Scarborough gas development must be understood and assessed with reference to the cultural practices, beliefs and customs and unique understanding of these issues held by Murujuga's traditional knowledge holders.
- The Murujuga Aboriginal Corporation does not represent the interests of Traditional Owners seeking to protect cultural heritage (6) and Woodside's limited consultation with MAC does not satisfy the requirement for free, prior and informed consent for cultural heritage impacts, or the requirements of 'relevant person' consultation according to the above regulations.
- Woodside notes that in the opening paragraph of this letter and and state that they are Murujuga Elders, Traditional Owners, Traditional Custodians and members of the Murujuga Aboriginal Corporation (MAC). MAC was established to preserve and protect the land, heritage and culture of the Burrup and Maitland Industrial Estate and is made up of a Circle of Elders who hold cultural authority and consist of representation form the 5 language groups.
- Included with the correspondence was an open letter signed by several Traditional Custodians requesting (among other things) that further investment on project on Murujuga be withheld and that any further investments decisions on the Scarborough Project be paused. The letter was titled 'Open letter from Traditional Owners and Custodians of Murujuga concerning the proposed Woodside Scarborough gas development'.
- On 22 July 2022, Woodside responded to the 6 June letter sent by and and a stated to the Seismic Survey EP, but also stated that Woodside is open to receiving feedback and to discussing issues raised in relation to each of its Scarborough Environment Plans'.
- On 2 August 2022, Woodside wrote to NYFL accepting NYFL's offer to facilitate SOS meetings.
- On 23 September 2022 Woodside emailed and Save Our Songlines advising of the proposed activity (Appendix F, reference 1.54) and provided a Consultation Information Sheet and Consultation FAQ.
- On 26 September 2022, and and Save Our Songlines emailed a letter to NOPSEMA regarding a number of Scarborough EPs, regarding other related Scarborough EPs:
- and Save Our Songlines raised several issues relating to Woodside's consultation requirements under the Regulations.

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•	and Save Our Songlines stated that they have functions interests and activities within the EMBAs of the Scarborough EPs which might be directly affected by the proposed activity.
•	and Save Our Songlines requested that NOPSEMA refrain from accepting the Scarborough EPs (not this EP) until Woodside had properly complied with Reg 11A in relation to their functions, interests and activities and in relation to the time provided for consultation.
•	and Save Our Songlines offered to provide to NOPSEMA, further information about their functions, interests and activities that may be affected by activities under the Scarborough EPs.
•	Information to be shared by Save Our Songlines is to be treated with high sensitivity and confidentially (7). The letter stated that Woodside had not complied with Reg 11A. (8)
•	and offered to share information about their functions, interests and activities regarding these EPs to NOPSEMA (9). This is an indication that as early as September 2022, and and had information and "objections" to share about all Scarborough EPs which despite Woodside providing ample opportunity, they had not shared with Woodside.
•	On 29 September 2022, Woodside emailed and save Our Songlines:
•	Woodside requested a meeting to share information in relation to the Scarborough Gas Project. Woodside requested to hold this meeting prior to 10 October 2022. Woodside advised it welcomed the opportunity to meet to discuss the matters raised in the letters of 6 June 2022 and 29 September 2022, to share information in relation to the Scarborough Gas Project and demonstrate how items raised in the correspondence have been addressed in the relevant environment plans. Woodside proposed that the meeting would be attended by subject matter experts and project personnel as required to answer any questions.
•	On 6 October 2022, Woodside followed up with and save Our Songlines via email and phone / voicemail.
•	On 7 October 2022, and Save Our Songlines responded to Woodside via phone to arrange a suitable date and time.
•	On 7 October 2022, Woodside and and Save Our Songlines discussed arrangements via phone to meet on 11 October 2022.
•	On 7 October 2022, and Save Our Songlines contacted Woodside via phone to advise that would be in touch to set up the meeting. and Save Our Songlines could not confirm if the 11 October 2022 meeting was proceeding as planned.
•	On 10 October 2022, Woodside emailed and Save Our Songlines noting it had not received any further contact or confirmation of the 11 October 2022 consultation meeting. Woodside advised it was still ready and available to proceed with a meeting.
•	On 11 October 2022, Woodside flew personnel to Karratha to attend the meeting with and SOS and followed up with an and SoS and followed up with an analysis and soS
•	On 11 October 2022, and Save Our Songlines advised Woodside via SMS that it was awaiting confirmation from its lawyers regarding the proposed meeting.
•	Woodside did not receive further contact and, despite Woodside being ready in Karratha for the meeting as agreed, and so side and so side and the meeting did not proceed.
•	None of provided an explanation to Woodside as to their non-attendance at this meeting.
•	On 13 October 2022, Woodside followed up via email with and and Save Our Songlines regarding any feedback on the information provided on 23 September 2022 relating specifically to the proposed activity (Appendix F, reference 1.100).
•	On 8 November 2022, and Save Our Songlines sent a letter to Woodside in relation to the Scarborough gas project EP meetings request including this EP.
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and Save Dur Songlines acknowledged Woodside's correspondence of 29 September 2022 in respect of Woodside's consultation with relevant persons for activities related to the Scarborough Project and associated EPs. Acknowledging their understanding that Woodside's correspondence encompassed all activities with the Scarborough Gas Project including Seismic, D&C, SITI and State EPs and this EP. and Save Our Songlines reiterated that they were relevant persons for activities relating to these EPs and acknowledged the invitation to meeting to discuss the EPs and the answer any questions they may have, (4) and Save Our Songlines stated that it was unfortunate that they had been unavailable to meet as requested, however they welcomed the opportunity to discuss their letters dated 6 June 2022 and 26 September 2022 and their concerns on the impacts and risks of the above activities. They acknowledged that Woodside may have an internal target date but that it was generally not practicable to arrange meetings with less than 4 weeks' notice and requested that Woodside provide sufficient notice for any meeting opportunities. and Save Our Songlines offered several dates on which they were available to meet and shared their preference to meet on Murujuga. and Save Our Songlines offered several dates on which they were available to meet and shared their preference to meet on Murujuga. and Save Our Songlines offered several dates on which they were available to meet and shared their preference to meet on Murujuga. The several provides a manufacture of the several dates on the several dates		
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•	Woodside reiterated it is open to continue consulting with and Save Our Songlines, receiving feedback and discussing their concerns in relation to Woodside's Scarborough Environment Plans (EPs) in Commonwealth and State waters (collectively referred to as the Scarborough EPs). (4)
•	That consultation on the Scarborough EPs began when Woodside provided and Save Our Songlines with consultation information on the Scarborough EPs.(8)
•	That Woodside has made every effort to meet with and and Save Our Songlines to understand their claim of relevance and to develop a comprehensive understanding of potential impacts to their functions, interests or activities. (8)
•	That it has been trying to arrange a meeting with and Save Our Songlines since November 2021 to discuss the Scarborough EPs, including a representative travelling to Karratha for a planned meeting on 11 October 2022 and making representatives available for a meeting on 29 November 2022. (8) Woodside reiterated its availability to meet and provided an option for any date in January or early February 2023 (8).
•	On 8 February 2023, Woodside was copied into correspondence sent from the Environmental Defender's Office (EDO) to the WA State Minister for Mines and Petroleum regarding a separate Environment Plan under State Regulations. Copies of previous correspondence between Woodside and and Save Our Songlines were attached to the email. This included a detailed response from Woodside dated 5 January 2023 which responded to claims and objections made in relation to spiritual and cultural values.
•	On 8 February 2023, the EDO (acting on behalf of SOS) emailed Woodside and stated that the earliest its clients would be able to meet would be the weeks commencing 13 and 20 March 2023.
•	On 15 February 2023, Woodside emailed and Save Our Songlines. Woodside reiterated its availability to meet and, based on dates suggested within the 8 February correspondence, provided and Save Our Songlines with confirmation it was available to meet on the suggested dates in March 2023. (1)
•	On 24 February 2023 Woodside sent and Save Our Songlines a follow up email. Woodside reiterated its availability to meet.
•	On 24 February 2023 the EDO (acting on behalf of and Save Our Songlines) emailed Woodside and advised its client was available to meet on 13 and 14 March 2023. EDO requested that Woodside nominate a female staff member who could receive "highly sensitive" cultural information at the meeting, which Woodside took to mean that and Save our Songlines intended to share cultural information at the meeting.
•	On 28 February 2023 the EDO (acting on behalf of and and Save Our Songlines) emailed Woodside to follow up on the request to secure a meeting.
•	On 1 March 2023 Woodside emailed and save Our Songlines (and CC to EDO) to propose the meeting time and location for 14 March 2023 Woodside also nominated a female staff member to receive cultural information (7).
•	On 7 March 2023 the EDO (acting on behalf of and save Our Songlines) emailed Woodside to confirm the meeting time and location for 14 March 2023.
•	On 8 March 2023 Woodside emailed the EDO, and and Save Our Songlines with a proposed agenda for the 14 March 2023 meeting and requested they advise if there were any particular issues they wished to discuss during the meeting. (8)
•	On 10 March 2023, Woodside emailed EDO, and and Save Our Songlines with further logistic and meeting protocol details for the proposed meeting on 14 March 2023. The agreed meeting protocol, based on a discussion between Woodside and included the agreed meeting protocol, based on a discussion between Woodside and included that attendees would be all female, would attend with open hearts, deep listening and seeking a respectful conversation and open to sharing knowledge about the environment that may be affected, including the heritage of places. It was also agreed that there would be no audio or video recording of the meeting to respect privacy, safety and cultural values (7).

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•	On 13 March 2023, the female nominated by Woodside to receive sensitive information called and SOS to check in and confirm the meeting would go ahead.
•	MEETING: On 14 March 2023 (summarised in 16 March 2023 email), Woodside met with EDO, and and Save Our Songlines on-country and discussed the proposed activity including providing a description of the pipeline route and risks and impacts associated with the activity. Maps and pictures of the pipeline and Scarborough Project footprint were shown. Despite Woodside's continued efforts and offers to meet since at least September 2022, delay and refusal to meet meant that this meeting represented the first time Woodside and and Save Our Songlines had met in person since the establishment of Save Our Songlines in November 2021. (4, 8)
	Woodside provided an overview of the Scarborough activities (Seismic EP, D&C EP, SITI EP (Cth and State) and this EP).
	Feedback from and Save Our Songlines (at the on-Country meeting):
•	When asked for their views on how the activities could be managed by Woodside to reduce risks and impacts to their interests, and and Save Our Songlines told Woodside that the proposed activities gave them a sick feeling and the activities should be stopped (10). The stopped (10) and Save Our Songlines also informed Woodside that, in their view, there is nothing that could be done by Woodside to progress with the proposed Scarborough activities in a way that could minimise impact to and Save Our Songlines' functions, activities and interests or that would be respectful to its culture and country (10). Woodside Response (at the on-Country meeting):
•	Woodside agreed not to share cultural details which were shared at the 14 March 2023 meeting unless they were shared with women (7).
•	and noted there is information that is not yet known to them as the rocks have not yet told them (for instance, wisdom that Murujuga rocks have for the past and future) and they are no sure when it will be known (9).
•	On 16 March 2023, Woodside emailed EDO, and and Save Our Songlines to advise that:
•	It appreciated the request for Woodside to attend the meeting with open hearts, deep listening and respectful conversation and that it would intend to continue this approach to engagement. Woodside's consultation process is ongoing through the environmental approval process and when an activity is being performed and that Woodside looks forward to
	continuing its discussions with an and Save Our Songlines in the future (8).
•	Woodside is open to consulting further with and and Save Our Songlines on the proposed Scarborough activities and are open to the continuing engagements regarding the Scarborough activities (8). Woodside noted this was notwithstanding comments made at the meeting by and should be stopped.
•	Woodside provided responses to specific actions taken during the meeting, including:
•	A request for Woodside to provide background information on the "why" behind the Scarborough activities. Woodside responded that the Scarborough Gas Project helps play a role in the global energy transition, including helping neighbouring Asian countries take action on emissions reduction and advised there is further information on Woodside's website.
•	A request for Woodside to check with MAC whether MAC's ethnographic survey can be shared with and Save Our Songlines. Woodside advised that the ethnographic survey is held by MAC and Woodside does not have permission to share it (3).
•	A request for Woodside to confirm whether fracking would occur in relation to the Scarborough activities. Woodside confirmed that no fracking would be undertaken as part of the proposed Scarborough activities (1).
•	On 17 March 2023, Woodside emailed and Save Our Songlines and included responses to relevant objections, claims and additional information raised on 6 June 2022, 26 September 2022 and 24 November 2022:

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- Woodside confirmed it has conducted an ethnographic survey to support the development of EPs for the Scarborough Project (McDonald and Phillips 2021). These works have not identified any heritage places, objects or values which will be impacted by the activities covered by the Subsea EP. An ethnographic survey determines the cultural values which are associated with a particular area, feature or object. Representatives from the Mardudhunera, Ngarluma, Yaburara, Yindjibarndi and Wong-Goo-Tt-Oo Peoples—all five Indigenous groups represented by MAC—participated in this survey (McDonald and Phillips 2021). Participants were not restricted in the types of heritage or other values they were encouraged to identify, but typical results from surveys of this nature might include songlines, ceremonial places such as 'thalu' sites for managing environmental resources, or places where activities such as birthing, initiation or other significant activities are performed.
- Woodside confirmed none of Woodside's agreements with Traditional Custodians include "gag clauses" or restrictions on voicing opinions on its projects. Woodside has supported Traditional Custodian representative institutions to access relevant information and independent expert advice so that they are enabled to provide informed and considered feedback on the Scarborough project.
- Woodside advised that the principles of Free, Prior and Informed Consent (FPIC) are based in the United Nations Declaration on the Rights of Indigenous Peoples
 (UNDRIP) where it is envisaged as a communal right of Indigenous communities and secured through consultation with representative institutions utilising traditional
 decision-making mechanisms such as deferring to MAC's Circle of Elders. Woodside is guided by UNDRIP under its Indigenous Communities Policy and has consulted
 representative institutions including MAC for a number of years.
- Woodside confirmed it has made several attempts since November 2021 to engage with Save Our Songlines, and and and with a meeting held on Tuesday 14 March 2023. Woodside confirmed that Woodside is open to receiving feedback on the Subsea EP.
- Woodside advised that as per Woodside's ongoing consultation approach, feedback and comments received continue to be assessed and responded to, as required, through the life of an EP, including during EP assessment and throughout the duration of the accepted EP, in accordance with the intended outcome of consultation.
- Woodside confirmed that concerns related to carbon and the impact on climate change from Scarborough gas are not relevant to the Subsea EP. The Subsea EP assess both direct and indirect impacts and risks associated with the proposed Petroleum Activities Program (PAP), having regard to the nature and scale of the proposed PAP.
- Woodside advised the proposed PAP is outside of the National Heritage Place and the anticipated boundary of the Murujuga Cultural Landscape World Heritage Property.
- Woodside confirmed the extraction of Scarborough gas for onshore processing is not within the scope of the activity described in the Subsea EP. Therefore, indirect impacts and risks arising from the onshore processing of Scarborough gas are not considered indirect impacts/risks of the PAP for the Subsea EP but may be evaluated in other Scarborough EPs as appropriate.
- Woodside confirmed emissions from the activities covered by the Subsea EP are of a scale and physical remoteness from Murujuga's rock art that no credible impact pathway is foreseen. The activities covered by the Subsea EP are located ~374 km away from Murujuga. Woodside advised that no rock art will be displaced as a result of the Scarborough Project.
- Woodside advised it has resourced Traditional Custodian representative institutions to access relevant information and independent expert advice so that they are
 enabled to provide informed and considered feedback on the broader Scarborough activities. A number of documents containing cultural heritage information, including
 heritage assessments, contain the intellectual property of Traditional Custodians or sensitive information that may be culturally restricted. For these reasons, Woodside
 does not disclose this information. This information is held by representative institutions and may be disclosed by them where they consider in appropriate to do so.
- Woodside provided a link to the Scarborough Project Cultural Heritage Management Plan which is a publicly available document and can be found at: https://www.woodside.com/docs/default-source/our-business---documents-and-files/burrup-hub---documents-and-files/scarborough---doc
- Woodside advised it continues to consult with MAC on all relevant aspects of this EP prior to and during the execution of activities.
- Woodside advised it considers the adequate time and information it has provided, including the meeting on Tuesday 14 March 2023, to be more than suitable to inform feedback on Woodside's proposed Scarborough EPs.

- Woodside confirmed that as per Woodside's ongoing consultation approach, feedback and comments received continue to be assessed and responded to, as required, through the life of an EP, including during EP assessment and throughout the duration of the accepted EP, in accordance with the intended outcome of consultation. The first revision of the full EP will be made publicly available once accepted by the regulator.
- Woodside included an updated Consultation Information Sheet and confirmed that Woodside is open to continuing engagements regarding the Scarborough activities.
- On 24 March 2023, the EDO (acting on behalf of and save Our Songlines) provided a letter to Woodside which copied NOPSEMA, DMIRS and the WA Minister for Mines and Petroleum:
- The letter acknowledged that Woodside had provided information on all relevant Scarborough EPs (Seismic, Drilling, SITI and this EP), and confirmed that and raised "particular concerns about the impacts that underwater activities that form part of the EP activities might have on their functions, interests an activities". This confirmed that the parties were consulting on all EPs at this stage.
- The letter detailed a response to the 14 March 2023 meeting and Woodside's 16 March 2023 email, and covered the range of Scarborough EPs (Seismic, D&C, SITI, Subsea and State EP), including this proposed activity. The EDO noted its client's concerns relating to:
- The summary of the meeting, stating the functions, interests and activities of their client were distinct from those of Murujuga Aboriginal Corporation and that their stories were not told as a part of any consultation with MAC (6). They raised concerns about impact of underwater activities, impacts related to greenhouse gas and Murujuga industrialisation.
- Clarification of their client's position, stating that Woodside had mischaracterised their clients position. Their view is that Woodside should not undertake the Scarborough Gas Project because of the harm it will cause and that is different to the conclusion that there is 'nothing that can be done' to minimise impacts or be respectful to their clients, their culture and their country (10) Their clients regard genuine consultation on the proposed EP activities an important demonstration of their respect for their functions, interests and activities. The letters assert that they consider that the consultation process has just commenced (11).
- Communication of relevant person status the EDO stated that their clients should be recognised as relevant persons individually and not only Save Our Songlines, the organisation their clients founded.(4)
- Acknowledgement of response to questions arising at the meeting of 14 March 2023 (1), that Woodside had followed up their requests and provided a link to Woodside's publicly available website and advised that the ethnographic survey was held by MAC and Woodside did not have permission to share it.(12)
- The letter noted that the EDO's clients would review the consultation information provided, and that it anticipated its clients would require approximately six weeks to do this (8).
- The letter requested Woodside not submit the draft environment plan until consultation was complete.
- On 29 March 2023, Woodside emailed the EDO, and and Save Our Songlines (CC to NOPSEMA) in response to the 24 March 2023 letter. Woodside reiterated its responses to topics raised during the meeting and in previous correspondence, relevant to the proposed activity. The response included the following responses which are summarised as follows:
 - In regards to additional or new information:
- Woodside advised it has a process in place for the life of an EP that allows the EP to be updated to include additional or new information or feedback that is received after an EP is submitted. This is done through a "Management of Knowledge" process. This means that feedback or information provide in future meetings can still be taken into account and, where appropriate, can be incorporated in the EP during the life of the activity.
- Woodside advised that following the meeting, based on the information provided, no updates were required to the EP via the Management of Knowledge process. In regards to functions, interests and activities
- Woodside acknowledged that it had been advised that and Save our Songlines' functions interests and activities are distinct from those of MAC and that it was interested to learn about this further (6).

•	In response to a request for the ethnographic survey undertaken by MAC, Woodside reiterated that it has no authority to provide this information. Given previous role with MAC at the time the ethnographic survey was being undertaken, Woodside suggested that may have contacts at MAC to request a copy of the contact of the
•	that survey (12). Woodside advised that as to and side of the ED activities on these functions, interests and activities, it continues to invite these to be shared with Woodside so
•	it can consider the likely impacts and risks of the EP activities on these functions, interests and activities and what Woodside can do to lessen or avoid those impacts (8 Woodside confirmed that as and save Our Songlines' were not prepared to share some information with Woodside, it remains open to hearing from them when this is known, and it is ready to be shared (8, 9).
•	In regards to minimising impacts to functions, interests and activities, Woodside reshared its interpretation of the take-aways from the meeting in relation to underwater activities, Greenhouse gas emissions and industrialisation of Murujuga (2)
•	In the meeting, Woodside provided an overview of the Scarborough Project and potential impacts of activities on whales (13).
•	Emissions from the activities covered by the Commonwealth EPs are of a scale that no credible impact pathway to their onshore cultural interests is foreseen. This has been the subject of separate correspondence (2).
•	In relation to the detail of the EPs and information accessed and provided, the meeting provided an overview of the Scarborough Project and followed volumes of previous correspondence on the Scarborough Project. Previous correspondence indicated that a large volume of information on the Scarborough Project had been accessed, read and considered. The correspondence showed an informed and thorough understanding of the various Scarborough activities and the Scarborough Project. (8, 9)
•	In relation to Consultation in general (8), Woodside advised it has continued to consult with and save Our Songlines' and continues to invite further consultation.
•	In relation to Relevant persons. (4), Woodside advised that the Commonwealth approval process requires Woodside to consult with "relevant persons".
•	Woodside has previously explained the approval process relating to the concept of "relevant persons" and noted that, at the relevant time consultations are included under a category of "relevant persons" in EPs. Woodside generally applies this category at a stage when they are trying to understand more about a person's functions, interests and activities and also the impacts of Woodside's activities on them.
•	Woodside reiterated that there is no need for it to categorise persons as relevant in order to consult with them.
•	In relation to Ongoing consultation (4), Woodside advised that once an EP is accepted, Woodside continues ongoing consultations with relevant persons. Is open to continuing consultation to understand how the proposed Commonwealth EP activities relevantly affect and Save Our Songlines.
•	In relation to Further consultation (8, 9), Woodside noted that and save Our Songlines' correspondence, it would like to organise another meeting and will require approximately six weeks to read into materials and prepare for a meeting.
•	Woodside requested for and save Our Songlines' to advise its preferred times for the next meeting, noting the time taken to arrange the previous meeting.
•	Woodside advised it is available to meet in the week commencing 8 May 2023 or earlier.
•	The agreed meeting protocol was shared again, including there being no audio or visual recording of meetings.
•	On 29 March 2023, the EDO responded acknowledging receipt of Woodside's email, noted the invitation for further consultation and advised it was seeking instructions and would respond in due course.
•	On 17 April 2023, Woodside responded by email to a letter from the EDO dated 6 April 2023 addressed to NOPSEMA and copied to Woodside about a different Scarborough EP.
•	Woodside reiterated the process for consultation remains open post EP approval and that it has consistently offered an open invitation to and and SOS to provide feedback to allow Woodside to consider the potential impacts and risks of the activities on functions, interests and activities and to provide input on thing Woodside can do to mitigate those potential impacts and risks on all Scarborough EPs. (8)
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• An attachment of 5 pages sent with this response to NOPSEMA sets out the history of Woodside's extensive engagements with and and SOS. states that since June 2018, Woodside has undertaken 82 substantial engagements relating to the Scarborough Project including 32 meetings with Traditional Custodians and their representatives (8).	It
• The letter went on to provide further context and highlighted relevant engagements with and SOS, and SOS, and Stated Woodside's position i.e. having regard to all of the circumstances of the consultation undertaken with and soos, and in light of the concepts of "reasonable time", "reasonated diligence", a consultation obligation that "must be capable of practical and reasonable discharge that must be capable of performance", NOPSEMA can be reasonable that an appropriate level of consultation has taken place with an analysis and SOS (8).	able
Woodside also outlined details about correspondence and the opportunities and invitations Woodside has attempted to provide for consultation to occur and why the have not occurred (8).	ese
Woodside closed the letter by stating Woodside would be pleased to discuss the notes contained in this letter and the issues raised in the Letter from EDO with NOPSEMA.	
On 8 May 2023, the EDO emailed Woodside to advise they had not had any response to date, and were writing again to enquire whether Woodside wished to proportion dates that can put to their clients for consultation regarding another Scarborough EP (Seismic).	ose
• On 9 May 2023, Woodside emailed,, and Save Our Songlines via the EDO reiterating Woodside's willingness to engage in ongoing consultation another EP (Seismic) and all other Scarborough EPs including this EP; On proposed meeting dates in May noting that Woodside was awaiting response on and Save our Songlines availability and that Woodside was open to meeting either on country or remotely, noted draft guidance from NOPSEMA regarding Managing gender-restricted information, and included a draft agenda (8).	,
• On 9 May 2023, Woodside emailed and and Save Our Songlines, with respect to another EP (SITI) and included responses to relevant objections (of which are broadly applicable to the entire Scarborough project including activities under the other Scarborough EPs), claims and additional information raised in relation to Scarborough EPs, including this EP, on 6 June 2022, 26 September 2022 and 24 November 2022:	(some
• Woodside confirmed it has conducted an ethnographic survey to support the development of EPs for the Scarborough Project (Mott 2019, UWA 2021, McDonald an Phillips 2021, Nutley 2022a and 2022b). These works have not identified any heritage places, objects or values which will be impacted by the activities covered by the SITI EP. An ethnographic survey determines the cultural values which are associated with a particular area, feature or object. Representatives from the Mardudhun Ngarluma, Yaburara, Yindjibarndi and Wong-Goo-Tt-Oo Peoples—all five Indigenous groups represented by MAC—participated in these surveys (Mott 2019, McDo and Phillips 2021). Participants were not restricted in the types of heritage or other values they were encouraged to identify, but typical results from surveys of this might include songlines, ceremonial places such as 'thalu' sites for managing environmental resources, or places where activities such as birthing, initiation or other significant activities are performed. (5, 6)	the nera, onald nature
Woodside advised Archaeological assessments have been made over the ancient landscape, being the extent of the continental shelf which was previously expose during human occupation. This includes an Australian-first assessment of the archaeological perspectivity along the trunkline route conducted with the support and	

- source/sustainability-documents/indigenous-peoples/cultural-heritage/scarborough-pipeline-cultural-heritage-assessment-exec-summary.pdf (5).
 Woodside advised it has had all of its submerged heritage work assessed by an expert underwater archaeologist for gaps in our processes (Nutley 2022a), as well as a review of Side Scan Sonar data to confirm whether archaeological sites could be identified on the seabed (Nutley 2022b). (5)
- Woodside advised that Section 4.9.1 of the SITI EP includes a summary of these assessments. The assessments include the relevant areas sufficient to assess the cultural values of the Operational Area for this EP. (5)

consultation of Traditional Custodians (UWA 2021). An executive summary is available on Woodside's website at https://www.woodside.com/docs/default-

Woodside confirmed that none of Woodside's agreements with Traditional Custodians include "gag clauses" or restrictions on voicing opinions on its projects. Woodside
has supported Traditional Custodian representative institutions to access relevant information and independent expert advice so that they are enabled to provide
informed and considered feedback on the Scarborough project. (3)

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- Woodside advised that the principles of Free, Prior and Informed Consent (FPIC) are based in the United Nations Declaration on the Rights of Indigenous Peoples
 (UNDRIP) where it is envisaged as a communal right of Indigenous communities and secured through consultation with representative institutions utilising traditional
 decision-making mechanism such as deferring to MAC's Circle of Elders. Woodside is guided by UNDRIP under its First Nations Communities Policy and has consulted
 representative institutions including MAC for a number of years (6).
- Woodside confirmed it has made several attempts since November 2021 to engage with Save Our Songlines, and and and with a meeting held on Tuesday 14 March 2023. Woodside confirmed that Woodside is open to receiving feedback on the SITI EP (8).
- Woodside confirmed that concerns related to carbon and the impact on climate change from Scarborough gas are not relevant to the SITI EP (2). This EP assesses both direct and indirect impacts and risks associated with the proposed Petroleum Activities Program, having regard to the nature and scale of the proposed Petroleum Activities Program (2, 5).
- Woodside advised the proposed Petroleum Activities Program is outside of the National Heritage Place and the anticipated boundary of the Murujuga Cultural Landscape World Heritage Property (2).
- Woodside confirmed the extraction of Scarborough gas for onshore processing is not within the scope of the activity described in this EP. Therefore, indirect impacts and risks arising from the onshore processing of Scarborough gas are not considered indirect impacts/risks of the Petroleum Activities Program for this EP but may be evaluated in other Scarborough EPs as appropriate (2).
- Woodside confirmed emissions from the activities covered by this EP are of a scale and physical remoteness from Murujuga's rock art that no credible impact pathway is foreseen. Woodside advised that no rock art will be displaced as a result of the Scarborough Project (2).
- The activities covered by this EP are located in Commonwealth waters and will have no impact on access to sites of cultural and spiritual significance (2).
- Woodside advised it has resourced Traditional Custodian representative institutions to access relevant information and independent expert advice so that they are enabled to provide informed and considered feedback on the broader Scarborough activities. A number of documents containing cultural heritage information, including heritage assessments, contain the intellectual property of Traditional Custodians or sensitive information that may be culturally restricted. For these reasons, Woodside does not disclose this information. This information is held by representative institutions and may be disclosed by them where they consider in appropriate to do so. (5)
- Woodside provided a link to the Scarborough Project Cultural Heritage Management Plan which is a publicly available document and can be found at: https://www.woodside.com/docs/default-source/our-business---documents-and-files/burrup-hub---documents-and-files/scarborough---doc
- Woodside advised it continues to consult with MAC on all relevant aspects of this EP prior to and during the execution of activities. (1)
- Woodside advised it considers the adequate time and information it has provided, including the meeting on Tuesday 14 March 2023, to be more than suitable to inform feedback on Woodside's proposed Scarborough EPs (8, 9).
- Woodside confirmed that as per Woodside's ongoing consultation approach, feedback and comments received continue to be assessed and responded to, as required, through the life of an EP, including during EP assessment and throughout the duration of the accepted EP, in accordance with the intended outcome of consultation (8, 9).
- Woodside reiterated the consultation information sheet has been available on Woodside's website since August 2021 and invited feedback on the proposed activities to be provided before 30 September 2021. Revision 1 of the SITI EP has been available on the NOPSEMA website since 13 January 2022. Woodside re-provided links to both documents (8, 9).
- On 10 May 2023, the EDO (acting on behalf of previous correspondence, and Save Our Songlines) emailed Woodside to query the date of previous correspondence.
- On 15 May 2023, Woodside emailed the EDO confirming that the May 2023 correspondence refers to emails dated 9 May 2023 with the subject line "RE: Scarborough Environment Plans Consultation.
- On 15 May 2023, EDO emailed Woodside and said they were confirming instructions with their clients and will revert as soon as possible.

- On 1 June 2023, the EDO emailed Woodside confirming , and Save Our Songlines were available to meet in Karratha on Tuesday, 13 June 2023 (8).
- On 6 June 2023, Woodside emailed , and Save Our Songlines in response to questions pertaining to the D&C activity however some responses are relevant to the Subsea PAP and have been included here for completeness. Acknowledging and in response to the Save our Songlines correspondence of 6 June 2022, 26 September 2022, 24 November 2022, correspondence via EDO of 6 April 2023, 18 April 2023 and during meeting on 14 March 2023, Woodside confirmed:
- Ethnographic surveys have been carried out to support EP development (and the EP updated to reflect this), with surveys not identifying any heritage places, objects or values which will be impacted by any of the activities covered by the D&C EP (5)
- None of Woodside's agreements with Traditional Custodians include "gag clauses" or restrictions on voicing opinions on our projects. Woodside has supported Traditional Custodian representative institutions to access relevant information and independent expert advice so that they are enabled to provide informed and considered feedback on the Scarborough project (3).
- The principles of Free, Prior and Informed Consent (FPIC) are based in the United Nations Declaration on the Rights of Indigenous Peoples (UNDRIP) where it is envisaged as a communal right of Indigenous communities and secured through consultation with representative institutions utilising traditional decision-making mechanisms such as deferring to MAC's Circle of Elders. Woodside is guided by UNDRIP under our Indigenous Communities Policy and has consulted representative institutions including MAC for a number of years (6).
- Woodside has made several attempts since November 2021 to engage with Save Our Songlines, with a meeting held on Tuesday 14 March 2023. We confirm that Woodside is open to receiving feedback and to discussing issues raised in relation to the D&C EP. As per Woodside's ongoing consultation approach, feedback and comments received continue to be assessed and responded to, as required, through the life of an EP, including during EP assessment and throughout the duration of the accepted EP, in accordance with the intended outcome of consultation. (8)
- The D&C EP assesses both direct and indirect impacts and risks associated with the PAP and is outside the National Heritage Place and anticipated boundary of the Murujuga Cultural Landscape World Heritage Property (5).
- Emissions from the activities covered by the D&C EP are of a scale and physical remoteness from Murujuga's rock art that no credible impact pathway is foreseen. No rock art will be displaced as a result of the Scarborough Project and damage to heritage sites is not anticipated as a result of the PAP (2, 5)
- The activities covered by the D&C EP are located ~430km away from Murujuga and will have no impact on access to sites of cultural and spiritual significance.(2, 5)
- Woodside has resourced Traditional Custodian representative institutions to access relevant information and independent expert advice so that they are enabled to provide informed and considered feedback on the broader Scarborough activities. A number of documents containing cultural heritage information, including heritage assessments, contain the intellectual property of Traditional Custodians or sensitive information that may be culturally restricted. For these reasons, Woodside does not disclose this information. This information is held by representative institutions and may be disclosed by them where they consider in appropriate to do so (12)
- Woodside shared a link to the publicly available Scarborough Project Cultural Heritage Management Plan (12)
- In response to the Save our Songlines letter dated 26 September 2022, Woodside referred to responses provided to address claims in the 6 June 2022 Save our Songlines letter and also confirmed Woodside has undertaken an ethnographic survey to identify cultural heritage that may be impacted by Scarborough activities. This work has not identified any heritage places, objects or values which will be impacted by the activities covered by the D&C EP (5).
- In response to the Save our Songlines letter dated 24 November 2022, Woodside confirmed it considers the time and information it has provided, including the meeting on Tuesday 14 March 2023, to be more than suitable to inform Save our Songlines feedback on proposed Scarborough EPs. As per the ongoing consultation approach, feedback and comments received continue to be assessed and responded to, as required, through the life of an EP, including during EP assessment and throughout the duration of the accepted EP, in accordance with the intended outcome of consultation (8, 9).
- On 7 June 2023, Woodside emailed the EDO requesting the email be forwarded to provide to meet in Karratha on 13 June 2023 to continue consultation on the Scarborough EPs; proposed an agenda; confirmed meeting protocols and advised Woodside attendees. Woodside requested to know who would be attending on behalf of SOS and confirmation of other meeting details. The agenda included the sharing of

	interests, the functions of and Save Our Song lines, a walk through of Scarborough EPs, and a description of the Scarborough Project and activities to be undertaken under each EP. The same meeting protocol agreed prior to the March meeting was shared, including female only meeting, attend with open hearts and prepared for deep listening and respectful conversation and to share knowledge about the environment including the heritage of places. In addition, it was agreed there would be no audio or visual recording. Because it had not received confirmation of the meeting and because of past history of Woodside turning up for meetings without or SOS attending, or meetings that did not proceed, on 9 June 2023, Woodside emailed the EDO, and some proceed of the meeting confirmation of the meeting scheduled for Tuesday 13 June 2023 and its time and location. Confirmation was sought by 5pm on 9 June 2023 as there were a number of flight and other logistics that needed to be confirmed by 5pm in order for that meeting to progress on Tuesday. If the meeting could not proceed then requested the provision of alternative meeting dates (8).
•	On 9 June 2023 after 5pm the EDO emailed Woodside confirming availability for a morning meeting on 13 June 2023 (8).
•	On 9 June 2023, Woodside emailed the EDO advising reasons why it was not available to meet on 13 June 2023 ie. flights and other logistics had timed out (8).
•	On 10 June 2023, the EDO emailed Woodside to advise and Save Our Songlines were available to meet on 13 June 2023 on country with the EDO and provided a phone number to discuss logistics. EDO did not object to the agenda or the meeting protocol (including no recording being taken) (7, 8, 9).
•	On 12 June 2023, the EDO on behalf of its clients and Save Our Songlines emailed Woodside advising availability to meet on 13 June 2023 at Hearson Cove. Despite its previous position committing to consulting on all Scarborough EPs, and confirmation that and SOS had information to share on all Scarborough EPs and the Scarborough Project generally (see correspondence dated 26 September 2022, 8 November 2022 and 24 November 2022) the EDO for the first time stated it did not think it was appropriate to deal with all 4 EPs in one meeting (15). EDO did not raise any concern with the meeting protocol, including no recording being taken.
•	On 12 June 2023, Woodside emailed and Save Our Songlines and the EDO regarding meeting arrangements and a draft agenda. Woodside requested next available dates for a meeting with and save Our Songlines and the EDO.
•	On 12 June 2023, the EDO emailed Woodside to advise the advise the and Save Our Songlines wanted to keep the existing arrangement for a consultation meeting on 13 June 2023 in Karratha.
•	On 14 June 2023, the EDO emailed Woodside to advise that their clients, and Save Our Songlines were still willing to meet at the times specified in the previous email while EDO solicitors will be available in Karratha and that Woodside could join by phone or videoconference if needed.
•	On 14 June 2023, Woodside emailed the EDO and and and an and Save Our Songlines to advise Woodside was not available to meet the week of 13 June 2023 but proposed 5 alternative dates in June 2023 for a meeting to be held in Karratha or via Teams (remotely). These dates allow for Woodside to follow the agreed protocols (including having a female only team) (7, 8).
•	On 14 June 2023, the EDO emailed Woodside to advise it would revert back once instructions had been received from their clients.
•	On 14 June 2023, the EDO emailed Woodside, confirming dates to meet in Karratha in June, and noted the agreed meeting protocols.
•	On 20 June 2023, the EDO emailed Woodside to advise the EDO will not be in a position to arrange any in-person consultation meeting for the week of 20 June and the EDO is awaiting instructions as to preferred dates and next steps for consultation. In the meantime Woodside could let the EDO know if Woodside had any questions (8).
•	On 21 June 2023, Woodside emailed the EDO, and advising that Woodside was looking forward to hearing from them when ready. Woodside offered for comments / queries / requests to be emailed in the meantime if more efficient (8, 9).
•	On 28 June 2023, the EDO on behalf of its clients, and sold and SOS, emailed a letter to NOPSEMA and copied Woodside urging NOPSEMA to not accept the 4 Scarborough EPs Woodside had submitted as Woodside had failed to comply with its consultation obligations under reg 11A (8, 9). The EDO stated:

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	Woodside had not notified the SOS that the EPs had been submitted nor the dates of submission.
	A meeting scheduled for 13 June 2023 did not proceed; plans to reschedule are ongoing.
	Woodside had not explained the activities of the Scarborough EPs and the associated impacts and risks in a way the SOS can understand and how this will impact their functions, interests and activities. Also, and SOS had not been provided with sufficient information and a reasonable period for consultation (8, 9).
•	On 3 July 2023, Woodside emailed the EDO and copied NOPSEMA in response to the EDO's letter to NOPSEMA dated 28 June 2023 (copied to Woodside). Woodside clarified:
•	Woodside had consulted and solven
•	Consultation between Woodside and consultation had included 5 meetings, 2 attempted meetings, 19 emails, 7 phone calls and 10 letters [Ref letter to NOPSEMA, copied to EDO dated 17 April 2023] (8, 9).
•	At a meeting on 14 March 2023, Woodside provided an overview of the Scarborough Project to an activities to be carried out under the Scarborough EPs. Woodside agreed to keep the full details of the meeting confidential at the request of the EDO's clients on the basis that some matters included secret women's business (7, 8, 9).
•	Following this meeting, a suite of correspondence was exchanged where Woodside further explained the activities to enable and SOS to make an informed assessment of the possible consequences of the activities on their functions, interests or activities. This was in addition to consultation material previously provided since August 2022 and the publicly accessible Scarborough EPs published on NOPSEMA's website. (8, 9)
•	During the meeting, without expressing to Woodside what their functions, activities and interests were (which remained (at the date of this letter) unexpressed by the EDO or its clients), which is an and SOS informed Woodside that nothing could be done by it to progress with the activities to be carried out under the Scarborough EPs in a way that could minimise the effects of those activities on their undisclosed functions, interests or activities (10). Nonetheless, Woodside had continued to consult with and any matters they wished to communicate to Woodside that could be relevant to the Scarborough EPs (8, 9).
•	Woodside had been prepared to meet and had continued to correspond with the EDO's clients and the EDO.
•	Woodside considered it had met reg 11A of the Regulations.
•	Woodside remained open and available to meet and proposed a meeting date from 3 July 2023.
•	On 17 July 2023, the EDO emailed Woodside with 4 potential video conference meeting dates in July. The EDO also acknowledged receipt of Woodside's letter of 3 July 2023 and advised it would revert in due course.
•	On 17 July 2023, Woodside emailed the EDO advising it would revert with meeting details.
•	On 18 July 2023, Woodside emailed the EDO confirming it was available for a meeting on Tuesday 25 July at 9am by Webex and asked for confirmation. A draft agenda was proposed and the agreed protocols were included that were previously agreed. This included female only attendees, an agreement to attend with open hearts and ready for deep listening and respectful conversation and an agreement to share knowledge of the environment including the heritage of places. It also included an agreement that there would be no audio or video recordings.
•	On 19 July 2023, Woodside provided the EDO with NOPSEMA consultation documents (brochure, guideline and policy) and asked they be provided to and Save Our Songlines ahead of the meeting.
•	On 19 July 2023, the EDO advised and and an advised of EDO have taken over carriage of the matter and they will respond to the latest emails from Woodside.
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- On 19 July 2023, the EDO responded to Woodside confirming the meeting on 25 July 2023 and provided a revised agenda which was the agenda that was agreed ahead of the 13 June Karratha meeting that did not proceed. The EDO made no objection to the agreed meeting protocol, including no audio or video recordings (7).
 On 20 July 2023, Woodside responded to EDO agreeing to the meeting time and date, stating that the proposed agenda would be reviewed internally, and requesting confirmation on specific protocols to be adhered to in the meeting would be aligned with those previously set by SOS (7).
- On 21 July 2023, Woodside emailed EDO notifying that arrangements had been made for the planned meeting on 25 July, that Woodside was comfortable with the proposed agenda and that Woodside would provide information on the broader Scarborough project and EPs currently being assessed rather than a single EP. This would give and SOS an opportunity to discuss and ask questions on the other Scarborough EPs currently being assessed. Woodside also sought confirmation that previously mentioned protocols would be followed (7).
- On 24 July 2023, EDO emailed Woodside to inform that presentation of broader information on the Scarborough Project and EPs was acceptable (15), and requested that the meeting be recorded but paused for discussion of culturally sensitive matters (7). This was raised a day before the meeting, despite Woodside circulating the agreed protocol for comment several times since the March 2023 meeting. EDO had also confirmed that the existing protocols would be appropriate (7).
- On 25 July 2023, Woodside emailed EDO to state that Woodside intends to adhere to the protocols already agreed, including that attendees are welcome to take written notes however there will be no other recording of meetings. Woodside stated that it does not consent to the meeting being recorded (7).
- On 25 July 2023, _____ and SOS' lawyers confirmed they were running late to the meeting. [Ref 25 July 2023 email 9:01am]
- MEETING: On 25 July 2023, Woodside met with EDO and SOS, and and via web meeting:
- After introductions, EDO stated that for the meeting to proceed the meeting had to be recorded. It was stated that if the meeting was not recorded, and SOS would not participate in the meeting.
- As this had not been agreed between the parties, at around 9.40am, the meeting paused while arrangements were discussed. As noted above, EDO only raised this as an issue on 24 July, the day before the meeting. EDO, SOS, and an account of the agreed meeting protocol at any time between the March and July meetings, including when Woodside circulated the agreed protocol on several occasions (7).
- During the meeting on 25 July, following a pause in the meeting to consider recording, Woodside emailed EDO to inform that following an internal discussion, Woodside agreed to rejoin the meeting and the meeting being recorded under certain conditions (7). The issue around recording delayed the meeting by approximately 1 hour.
- When the meeting recommenced, Woodside provided the meeting with a power-point presentation covering all 4 Scarborough EPs and presented on regulatory context and provided an overview of the Scarborough Project. In accordance with emails exchanged before the meeting Woodside came to the meeting ready, willing and able to address all 4 Scarborough EPs including the activities under this EP and to hear from and SOS on their knowledge and concerns. Detailed information on each EP was provided in the slide pack (8, 15).
- Woodside opened the presentation by describing the Scarborough Project and the 430km trunkline route and the use of the trunkline including that gas will be pumped through it and exported back to the Pluto Gas Plant. On behalf of and SOS, EDO intervened on a number of occasions during the meeting and told Woodside words to the effect that and SOS did not want the opportunity to hear the presentation on any other EP, stating that their client was only there to consult on one EP (Seismic EP). This was despite EDO confirming in its email on 24 July 2023 that Woodside had said it would provide information on the Scarborough Project and other EPs. Woodside presented on the Seismic EP including by describing the activity in detail and talking through potential risks and impacts of the proposed activity and controls in place to manage them. Woodside also attempted to provide information on the rest of the Scarborough EPs (SITI, D&C and

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	Subsea) and gave an opportunity to hear and SOS in relation to the activities under these EPs (as agreed in the meeting agenda), but was refused (8, 15).
•	Woodside provided an overview of the Scarborough project and the offshore infrastructure. Despite a direction to only discuss the Seismic EP, asked a question relating to the other Scarborough EPs(1). And SOS also asked questions relating more broadly to the other Scarborough EPs. Woodside provided an overview of the Scarborough Seismic survey activity. Asked about the spatial extent of the Operational Area and the larger environment that may be affected. Woodside provided an overview of the spatial extent of the environment that may be affected for the Scarborough project and how it is driven by the highly unlikely event of a hydrocarbon spill from a vessel collision. Asked about the spatial extent of the environment that may be affected for the Scarborough project and how it is driven by the highly unlikely event of a hydrocarbon spill from a vessel collision. Asked about the spatial extent of the Operational Area and the larger environment that may be affected for the Scarborough project and how it is driven by the highly unlikely event of a hydrocarbon spill from a vessel collision. Asked about the spatial extent of the Operational Area and the larger environment that may be affected for the Scarborough project and how it is driven by the highly unlikely event of a hydrocarbon spill from a vessel collision. Asked about the spatial extent of the Operational Area and the larger environment that may be affected for the Scarborough project and how it is driven by the highly unlikely event of a hydrocarbon spill from a vessel collision. Asked about the spatial extent of the Operational Area and the larger environment that may be affected for the Scarborough EPs. Woodside provided an overview of the Scarborough EPs. Woodside provided an overview of the spatial extent of the environment that may be affected for the Scarborough EPs. Woodside provided an overview of the Scarborough EPs. Woodside provided an overview of the spatial extent of the environment that may be affected for the Scarborough EPs. Woodside
•	again suggested the meeting was to only discuss the seismic EP (15). and SOS provided feedback and asked questions relevant to a different Scarborough EP (Seismic EP). No new cultural information was provided relevant to any of the Scarborough activities. and SOS declined to provide further detail about the nature of their cultural values at the meeting (8, 9).
•	and SOS raised queries relating to the oil spill modelling Woodside undertakes to determine the EMBA (1). Woodside gave an overview of oil spill modelling and the stochastic nature of the model (1). EDO requested Woodside to provide the underlying information for the oil spill modelling about how the risk is determined i.e. worst case hydrocarbon spill scenario. Woodside provided a response to this request as part of their correspondence on 27 July 2023. and SOS stated that they are broadly concerned about impact on the whales (13) and other animals (16), the songlines (unspecified) and the
•	energy lines (unspecified) (18). and SOS stated that only they know the songlines and other Traditional Custodians did not, including MAC (6) The meeting agreed outstanding questions for Woodside to revert on (1). While these questions were not necessarily asked in relation to this activity, some of them are relevant to this activity. Woodside also pointed Save Our Songlines, and and to the summary consultation information sheets which are designed to explain highly complex content in a more readily understood manner (8).
•	Woodside asked whether Save Our Songlines, and and could share information about themselves and Save Our Songlines, in particular the communal and/or iindividual interests held (9). declined to do so and suggested that this meeting was not the time for that. stated the focus of herself, and Save Our Songlines at that time was to understand the activities, and that this information could be shared at a later time when they are ready (9). Woodside pointed out that source of the same and SoS had told Woodside that they would provide information at the meeting and had not done so. Woodside asked
•	for honesty going forward so that information would be provided to Woodside where and SOS had told Woodside they would provide it. Woodside offered to establish fortnightly meetings to provide and SOS opportunities to provide the information to Woodside. and SOS stated they would be unavailable for the next 6 weeks. (8)
•	SOS stated that they did not regard consultation had commenced until today. Woodside did not agree and this contradicts previous correspondence from and SOS, where letter 24 March 2023 consultation had just commenced (11). At this meeting, further meeting opportunities were also discussed by Woodside. Woodside suggested there be fortnightly meetings.
•	The parties agreed to share the recording of the meeting.
•	On 25 July 2023, EDO emailed Woodside:
•	Requesting a copy of the recording,

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- Requesting a response to seven follow up questions from and SOS, six of which are relevant to this EP relating to freshwater, migratory patterns of whales, dugongs and turtles, seagrass distribution, the worst case spill scenario and modelling, acoustic emissions (specifically decibels) associated with the seismic survey (1).
- Informing Woodside of and Sos' desired approach for response to the meeting on 25 July and further engagements, including that and Sos would provide a preliminary response to the meeting in video format on country, which may need to be supplemented (14). This has never been provided to Woodside.
- Proposing a sequence of meetings and responses be adopted on a per-EP basis (15)
- Requesting confirmation that the consultation meeting on 25 July formed part of the consultation requirements required by Reg 11A of the OPGGS (Environment) Regulations 2009 for a different EP (Seismic EP) (8).
- On 25 July 2023, Woodside emailed EDO notifying that Woodside will discuss the points raised and respond accordingly, and agreeing to provide the recording of the meeting.
- On 25 July 2023, EDO emailed Woodside requesting the meeting recording be provided via SharePoint, confirming that it would be passed on.
- On 26 July 2023, Woodside provided a recording of the meeting held on 25 July to EDO via a secure file transfer system and requested that it be passed on to SOS.
- On 27 July 2023, Woodside responded to EDO's email on 25 July:
- Confirming that a copy of the meeting recording from 25 July had been sent to EDO
- Providing responses to the seven follow up questions from and SOS (1)
- Noting that despite agreement prior to the meeting that cultural interests and feedback would be discussed at the meeting, this was not shared (9)
- Describing previous offers of meetings, noting that these were declined and confirming Woodside availability to meet on country (8, 14)
- Describing why it is it Woodside's preference to consult on the Scarborough project as a whole rather than on a per-EP basis, and noting that during the meeting and SOS asked questions about various Scarborough Project EPs (15).
- Describing how requirements of Reg 11A have been met, however Woodside remains open to continued consultation with SOS in good faith (8).
- Noting that an offer to meet fortnightly to support consultation had been made, which was declined.
- On 3 August, Woodside emailed EDO requesting that a message be passed on to SOS:
- Following up on Woodside's offer to meet on-country and whether SOS would be available (15).
- Informing that a separate Scarborough EP had been accepted by NOPSEMA with conditions requiring Woodside to seek further input, and requesting that SOS inform Woodside if it has input or information to provide (8, 9).
- Providing links to information about EP consultation and describing the purpose of EP consultation (8).
- Informing SOS that gender-restricted or culturally sensitive information is managed carefully, and attaching NOPSEMA's Policy for Managing Gender-Restricted Information" (7).
- On 9 August 2023, EDO emailed Woodside:
- Confirming that the recording of the meeting from 25 July had been received and passed on to SOS
- Noting that its clients expect Woodside to comply with EP acceptance conditions related to a recently accepted Scarborough EP
- Reiterating its "clients explained they were not ready to provide Woodside with information following the presentation". This was contrary to previous correspondence where and and confirmed they had information to share on all Scarborough EPs and the Scarborough Project generally (see correspondence dated 26 September 2022, 8 November 2022 and 24 November 2022) (8, 9).

- Stating that approaching consultation in good faith requires flexibility, that a fortnightly meeting arrangement is not appropriate and that a proposed date for another meeting will be part of a separate email (8). Reiterating that SOS. and ■ intend to consult on EPs individually and consecutively, rather than concurrently, despite the previous position that consultation was occurring across all Scarborough EPs and the Scarborough Project generally (15). Stating that SOS do not consider that requirements of Regulations have been met, and that a response following the meeting on 25 July is in preparation (8). On 9 August 2023, Woodside emailed EDO, requesting that a message be passed on to SOS:
- Confirming that Woodside had previously consulted with SOS regarding the separate, accepted Scarborough EP with the same EMBA (8)
- Informing that the activity described in the separate Scarborough EP is planned to commence on a specified date, and requesting that SOS inform Woodside whether it is aware of any other people that have not been afforded the ability to provide information, or of any information SOS wishes to provide on cultural or heritage features/values prior to the activity commencing (8, 9).
- On 10 August 2023, the EDO emailed Woodside (and copied NOPSEMA) regarding a Foreshadowed breach of conditions related to the separate, accepted Scarborough EP and advised its clients were alarmed that Woodside intended to commence activities on 12 August 2023 before it had complied with certain conditions in the Approval. The EDO further stated Woodside had not met the conditions and that its clients did not consider they had been sufficiently consulted on the separate Scarborough EP. The EDO requested an undertaking from Woodside that it would not commence an activity until it had fully consulted with its clients and that that undertaking was provided by 12 noon AEST on 11 August 2023. If this did not occur the EDO was instructed to seek injunctive relief in the Federal Court of Australia.
- The EDO also stated it considered the Approval invalid and without a valid approval Woodside could not commence the activities under the separate accepted Scarborough EP.

Correspondence 11 August – 12 September 2023

An amount of correspondence was exchanged in relation to the Federal Court proceedings. A relevant summary is below:

- and SOS commenced Federal Court proceedings seeking a judicial review of NOPSEMA's decision to accept the Seismic EP with On 17 August 2023, conditions. An affidavit of was filed on that date which referenced and sos, and sos
- On 21 August 2023, Woodside emailed the EDO seeking consultation regarding another EP. In the email, Woodside also reiterated previously agreed upon consultation conditions and reaffirmed its readiness and willingness to meet and consult with and sos, and requested available date to meet.
- On 21 August 2023, Allens on behalf of Woodside sent a letter to the EDO to inform that Woodside's position is that it had complied with Regulations, and that Woodside is prepared to meet with second and Save Our Songlines at any time or place suitable to them so that they could provide any information they consider relevant. That letter attached a table confirming consultation undertaken with second and SOS, relevant to all Scarborough EPs.
- On 22 August 2023, the EDO emailed Woodside informing that they would obtain further instructions from their clients regarding available dates for consultation and would email soon. The EDO also reiterated that SOS remains willing to consult.
- On 25 August 2023, the EDO emailed Woodside with two dates and location options available for consultation with their clients.
- On 25 August 2023, Woodside emailed the EDO seeking clarification on the two dates and information regarding payment for airfare to and from the consultation location.
- On 25 August 2023, the EDO emailed Woodside confirming both date options.
- On 25 August 2023, Woodside emailed the EDO confirming receipt of the email and responding that they would revert with availability.

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- On 29 August 2023, Woodside emailed the EDO with a preferred consultation date of 12-13 September 2023. Woodside also reaffirmed that these consultations would take place on a no-admission basis in relation to whether Woodside has satisfied Reg 11A of the OPGGS (E) Regulations given that EDO's clients hold a different view. It was also stated in the email that Woodside is proceeding on the basis that previously agreed protocols apply (7, 8). Woodside also enquired about receipt of a video taken on Murujuga that was expected to be forwarded from and SOS (8, 9, 14).
- On 30 August 2023, the EDO emailed Woodside confirming receipt of email and said they would respond soon.
- On 1 September 2023, Woodside emailed the EDO following up a confirmation for consultation on the 12 and 13 September 2023, for a 2-day on-Country workshop with SOS.
- On 4 September 2023, the EDO emailed Woodside responding to the email sent on the 29 August 2023:
- The EDO agreed that consultations are to take place on a no-admission basis and provided instructions on how the 2-day consultation meeting is to proceed including separating the two days over time (7, 8).
- The EDO asked that the first meeting focus on one specific EP (not this EP) and the second meeting, sometime after the 29 September 2023, will take place on Country with the intention of visiting the island off Murujuga (14). As noted above, this was contrary to the initial position taken by and SOS that they would consult on all Scarborough EPs and had information to share on each Scarborough EP (15).
- The EDO expressed their client's interest in meeting a third time to discuss appropriate measures put in place for the EP previously discussed (not this EP).
- The EDO asked Woodside to confirm that audio recordings at the meeting are permissible, as agreed on 25 July 2023, and that the consultation is to take place with only women (7).
- The EDO responded to Woodsides query about the on-Country Murujuga video and stated that, their clients no longer intend to provide that video (14).
- On 7 September 2023, the EDO emailed Woodside asking to confirm the consultation date of 12 September 2023 for planning purposes (flights and accommodation).
- On 7 September 2023, Woodside emailed the EDO confirming the consultation date of 12 September 2023 along with a proposed location in Karratha. Woodside restated the previously agreed upon protocols and listed the female Woodside employees that would be attending the meeting. Woodside confirmed the consultation would be conducted on a non-admission basis given the different view of the parties as to whether consultation occurred in accordance with Environment Regulations (7, 8).
- On 7 September 2023, the EDO emailed Woodside agreeing to the location, outlining dietary requirements and listing the attendees on their side.
- On 7 September 2023, as part of the Federal Court proceedings, a second affidavit of was filed. This affidavit sets out information relating to and SOS. It contains information that was and SOS have declined to previously provide to Woodside in the course of consultation, communications and meetings that have taken place since around 2022.
- The affidavit contains information about and sold and sold interests, including in relation to "whale dreaming" and songlines. This information is publicly accessible in an online court file. This information was not provided to Woodside in previous consultation, and was asserted it could not be provided due to cultural sensitivity and as a result of a lack of information about the Scarborough EPs and their impacts on interests (9). Woodside was therefore surprised to see the information for the first time being provided in a public forum when Woodside has been asking for and consulting with and sold in a public forum when Woodside has been asking for and consulting with and sold in a public forum when Woodside has been asking for and consulting with and sold in a public forum when Woodside has been asking for and consulting with and sold in a public forum when Woodside has been asking for and consulting with and sold in a public forum when Woodside has been asking for and consulting with a sold in a public forum when Woodside has been asking for and consulting with a sold in a public forum when Woodside has been asking for and consulting with a sold in a public forum when Woodside has been asking for and consulting with a sold in a public forum when Woodside has been asking for and consulting with a sold in a public forum when Woodside has been asking for and consulting with a sold in a public forum when Woodside has been asking for and consulting with a sold in a public forum when Woodside has been asking for any consulting with a sold in a public forum when Woodside has been asking for any consulting with a sold in a public forum when Woodside has been asking for any consulting with a sold in a public forum when Woodside has been asking for any consulting with a sold in a public forum when Woodside has been asking for any consulting with a sold in a public forum when Woodside has been asking for any consulting with a sold in a public forum when when we will be a sold in a sold in a public forum when when whe
- On 11 September 2023, the EDO emailed Woodside confirming the 12 September 2023 meeting and asked Woodside to confirm that the purpose for the meeting is to discuss a specific EP (seismic) to better understand the nature of the activities and ask questions to Woodside (15).

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	•	information from her own history and her own knowledge and information that she could share, including the kinds of issues that Woodside should be looking at that are

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	has had completed. Woodside said they would share the publicly available content from the report, and repeated that and SOS would need to speak to MAC if they wanted access to the full report (12).
•	and SOS indicated her desire to take Woodside employees out to Rosemary Island for an on-Country meeting. Woodside enquired as to the logistics including whether they would need to travel by boat and how long the boat ride would take (14).
•	Woodside shared that there are consultation meetings happening in Karratha, Port Headland and Roebourne the following week, and that and so so were welcome to attend and ask any questions or share anything then (8, 9).
•	Woodside concluded the meeting noting the information that Woodside had committed to providing and SOS and checking whether there were any other documents to be provided.
•	On 13 September 2023, the EDO emailed Woodside thanking them for the meeting on the 12 September 2023. The EDO also stated that they were looking forward to receiving requested information and listed the specific requests in the email. They also reiterated that they expected that certain cultural information divulged in the meeting to remain confidential and gender-restricted, referring to the agreed upon consultation protocols (7). This was not expected by Woodside because at all times, and SOS have control to stop a recording and point out that culturally sensitive information is being shared. It was not apparent during the meeting that the information was culturally sensitive and at no time asked for the recording to be stopped. In any event, Woodside acknowledged the position and undertook to manage the information sensitively.
•	On 13 September 2023, as part of the Federal Court proceedings, a third affidavit was filed. This affidavit confirmed that the subject of these proceedings" (8).
	Woodside provided the information to an and SOS by email on 17 September.
Sui	mmary: - correspondence leading to 4 and 5 October meeting
1 a	ignificant amount of correspondence was exchanged between Woodside and and solven and so
٩s	ummary of the correspondence is as follows:
17	September – 2 October 2023
•	On 17 September 2023, Woodside emailed and sold and sold to agree a way forward to finalise consultation on all Scarborough EPs with the utmost expedition and in a culturally appropriate way.
•	Woodside confirmed the urgency around consultation and offered an opportunity to attend a meeting on country every day (including weekends) during the next week. Woodside also confirmed it is open to discussing and receiving any and all information on all Scarborough EPs. This was acknowledged by EDO (Ref email 19 September 2023 and 20 September) (7,8,9)
•	Given the urgency and given there was no response, the email was followed by phone calls, voice mail and text messages to and and an and an and an analysis on 18 September.
•	In this email Woodside confirmed that information provided at and SOS' request relating to the DSDMP, CHMP, UWA study and OPP is already publicly available.
•	The information has been previously provided to and a reason to delay consultation on the Scarborough Commonwealth EPs
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•	On 19 September, the EDO sent an email to Woodside and noted that was unable to meet because of personal circumstances, because her lawyers were heavily occupied with the Federal Court proceedings and because of the large amount of information provided following the 12 September meeting.
•	On 20 September 2023, Woodside sent an email to the EDO and reiterated has stated that she already knows the information that she wishes to provide to Woodside, has received information on each Scarborough EP since at least 2022, through questions and information has shown an understanding of each of the EPs and has been provided the opportunity to discuss each of the EPs at each meeting this year. Woodside requested a meeting by 6 October 2023 at the latest.
•	On 20 September, EDO confirmed and SOS were available for a meeting on 4 and 5 October and that they would like to visit the islands off Murujuga during this part of consultation and asked Woodside to coordinate logistics. A concern was expressed regarding the amount of information that would need to be reviewed prior to the meeting.
•	On 21 September, Woodside agreed to a meeting on 4 and 5 October and agreed to investigate logistics regarding a trip to Rosemary Island. Woodside appreciated the confirmation that consultation would occur on all Scarborough EPs on those 2 meeting dates. Woodside also confirmed that there was no reason for concern regarding information that would need to be reviewed prior to the meeting because has stated that the information she and SOS want to share with Woodside is currently known to them given she and SOS have stated that they have information they want and are ready to share with Woodside. Woodside also reiterated that and SOS have had that information since at least 2022 and have shown an understanding of the content. Woodside asked SOS to confirm items so that Woodside could investigate logistics associated with arranging the meeting, including hiring a boat and venue for the meetings.
•	On 25 September, the EDO confirmed that wishes to visit Rosemary Island as part of the consultation meeting, that attendance was not yet confirmed, and that further logistics would be confirmed the next day.
•	On 27 September, Woodside sent a follow up email because it still had no confirmation from, and SOS regarding the items that Woodside needed to be confirmed in order for the meetings and vessel hire to progress. Woodside set out a proposed agenda for the 4 and 5 October meetings and some logistical issues. One issue was that the vessel Woodside is investigating has space for and 3 other attendees selects. Woodside respectfully also notified and SOS that the crew of the vessel was likely to be male and that there were potentially ways to manage the culturally sensitive information out of ear shot of the male crew.
•	On 28 September, EDO provided some information regarding travel to Rosemary Island including that will potentially bring 8 other attendees with her on the boat to Rosemary Island and requiring Woodside to arrange a larger vessel. noted that Rosemary Island is a culturally significant place and she had included 2 males to attend for the purposes of cultural safety. She also suggested that a third party Appeals Convenor (states) should be included in the trip. She also noted that she did not anticipate there would be any need for the Appeals Convenor or Woodside to share confidential or culturally sensitive information during or on the trip to Rosemary Island.
•	On 29 September 2023, Woodside emailed the EDO advising that the recording of 12 September 2023 would be shared with NOPSEMA and confirming that culturally sensitive and gender restricted information would be managed appropriately, in accordance with NOPSEMA <i>Draft Policy for Managing Gender Restricted Information.</i>
•	On 29 September, Woodside arranged a meeting with the external boat provided to undertake a risk assessment (including for health and safety) for the proposed trave by boat to Rosemary Island.
•	On 29 September, during the course making preparations for the trip to Rosemary Island, Woodside received strong advice from cultural authorities that because of Rosemary Island's high cultural significance, the cultural authority did not support Woodside convening a meeting at Rosemary Island.

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•	On 29 September Woodside sent an email to the EDO. Woodside said that it had received broader cultural advice that Rosemary Island has high cultural significance and that Woodside has been strongly cautioned against convening a meeting at that location because of cultural sensitivity and safety concerns. Woodside suggested Hearson Cove as an alternative meeting location for and all remaining information on the Scarborough EPs. Woodside also stated that it did not think it would be appropriate for the Appeals Convenor to attend, given the purpose of the meeting and questioned why three EDO lawyers needed to be in attendance.	
•	On 2 October, EDO emailed Woodside, expressing disappointment at Woodside's decision regarding Rosemary Island and confirming arrangements for the meeting on 4 and 5 October.	
•	On 2 October, Woodside emailed the EDO regarding the meeting on 4 and 5 October explaining the decision to not progress with the meeting on Rosemary Island. The email also conveyed that Woodside's priority was to understand the cultural values that and Save Our Songlines assert that Woodside needed to know for Scarborough EPs.	
•	Woodside replied on 3 and 4 October confirming that it takes cultural safety very seriously and confirmed that Ngaarda Ngarli community leaders have strongly discouraged Woodside from attending Rosemary Island. Other meeting items and logistics were confirmed.	
Ме	Meeting on 4 and 5 October 2023	
•	MEETING: On 04 October 2023 Woodside met with and SOS in Karratha (8, 9)	
•	Prior to meeting on 4 October 2023, Woodside arranged a meeting room at the Karratha Red Earth Arts Precinct and arranged catering. As a gesture of goodwill, Woodside communicated before the meeting and arranged coffees for attendees.	
•	Woodside arrived at the Red Earth Art Precinct ahead of the meeting to prepare the room for the meeting and was ready, willing and able to commence at the agreed start time of 10am. Woodside remained at all times, at the meeting room and available to consult on the Environment Plans. A Woodside employee left the meeting for around 15 minutes at a later stage in the meeting in order, at short notice, to re-book a vessel to facilitate a visit to Rosemary Island so that a trip could be made that circumnavigated the island.	
•	, SOS and EDO arrived at around 10.20am. They exited the meeting a number of times during the allocated meeting time for private conversations, time out and to manage energies that were being felt. In total, spent around two hours outside the meeting.	
•	Opening remarks	
•	and EDO confirmed that would not attend the meeting and that was not feeling the best as she was managing some family and other circumstances.	
•	Rosemary Island Trip	

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Rosemary Island trip. Woodside confirmed they were following meeting protocols and showing respect to the Traditional Custodian groups for the area (7, 14). Woodside suggested alternative meeting locations and other options, at a previous meeting and SOS had indicated that they would tell their story at Hearson Cove. The offer to meet at another place or meet at an alternative location on-Country of cultural significance where Woodside could receive the information were rejected by and SOS - all options suggested by Woodside were rejected including (14): A suggestion was made by Woodside that they use the boat Woodside had secured to circumnavigate Rosemary Island (but not disembark onto Rosemary Island), allowing and SOS to share her information. As a SOS agreed that this could be a compromise. Woodside contacted during the meeting to see if they had a boat available for 5th Oct that could circumnavigate Rosemary Island to allow for consultation on sea country to proceed, without landing on the Island. It is rejected the offer and declined to meet. Another option suggested was that and SOS visit Rosemary Island and produce an audio recording of their story; and A meeting at Hearson Cove, as Hearson Cove had previously been identified as culturally safe by and SOS and a place where they had (in March 2023) shared information with Woodside. Presentation and Discussion on Scarborough EPs During the meeting, Woodside presented on each of the Scarborough EPs (D&C, SITI, Subsea and Seismic) and controls suggested to demonstrate how Woodside had addressed each of the topics and cultural values previously raised by and SOS (13, 17, 19) and the relevant controls in place for each of the SCA EPs activities. Woodside displayed a table on-screen during the meeting which contained the previously expressed areas of interest to applicate the controls in place for each of the SCA and controls pertaining to each of these compressions of the SCA and controls woodside was stopped by EDO and questioned why controls were bein		
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	context. said she had an understanding of mining equipment and had worked on the Pluto project, she said that she had the 'gist' of what Woodside was telling her, however she wanted to see the equipment. While the video played, identified a number of relevant technical issues relating to drilling. After the video was played, asked:
•	What the environmental impacts and risks from the activity are (1). Woodside responded to this by outlining key environmental impacts and risks from drilling, including a detailed explanation of noise impacts from DP MODUs, light emissions, atmospheric emissions and marine discharges arising from the activity (1).
•	Woodside then provided an overview of the Scarborough Subsea Infrastructure Installation activity. and SOS had various questions, relating to both the drilling, subsea installation and SITI EPs specifically, including (1);
•	How equipment withstands earthquakes and tectonic movements. Woodside explained the basic requirements of a Well Operations Management Plan, and the safety factors that are considered in the well design process (1) as well as considerations for well location.
•	stated she had watched a lot of spills and was concerned that they don't get contained. Woodside responded that gas released at 900m (Scarborough well depths) would dissolve in the water column and not result in a typical oil spill scenario, but that the greater risk from a spill perspective is diesel spill from vessels caused by vessel collisions for example. Woodside provided an overview of a credible spill scenario from a vessel collision and discussed the Environment that Might be Affected (EMBA) (1).
•	Whether NOPSEMA approves the oil spill preparedness and response plans; Woodside confirmed that these plans are assessed and approved as part of the Environment Plan assessment process (1).
•	Woodside described the subsea installation activity and showed a Scarborough field lay out figure for context. and SOS expressed concern about the nature of the activity. Woodside asked whether and SOS could expand on her concern and queried whether she was concerned about the laydown of flowlines and equipment on the seabed, or more concerned about the presence of vessels in the field. The seable and SOS expressed it was the 'whole lot' she was concerned about and SOS expressed her desire to seek external experts to provide her with their perspective on the subsea activities (1).
•	Woodside moved on to the last Scarborough EP in the suite (SITI EP) and provided an overview of the proposed Trunkline and explained the process for selecting the Trunkline route and Trunkline construction methodology. and SOS spent some time looking at the figures showing where the Trunkline passed through the Montebello MUZ and the various marine park classifications around the Montebello Islands, and sought to understand that further Woodside provided an overview of the dredging activity for the offshore borrow ground area, and explained the logic behind the focus on environmental impacts from dredging in that EP. Meeting conclusion
•	Woodside again emphasized a willingness to listen to and SOS story and keenness to ensure her cultural values are protected.
•	Towards the end of the meeting, Woodside confirmed that a boat was available to circumnavigate Rosemary island on 5 October as was the agreed compromise position. said words to the effect that this was not good enough, and after a brief discussion on the logistics of the boat trip to Rosemary Island, including raised voices and a significant aggressive and emotional diatribe by the meeting ended (8, 9, 14).
•	After the close of the meeting, Woodside informed EDO lawyers that another option available for some states, SOS and to share her story was to share it directly with NOPSEMA (9).
•	5 October meeting
•	Woodside attended the Read Earth Arts Precinct ready, willing and able to engage in consultation on 5 October 2023. Despite Woodside confirming it was ready for the meeting, and EDO declined to attend.
Со	rrespondence following the 4 October meeting
A s	summary of the correspondence is as follows:
•	Woodside and EDO exchanged emails following the meeting, noting that accounts and take-aways from the meeting differed.

•	On 4 October 2023, EDO emailed Woodside stating that each of the Scarborough EPs, including this EP, were not discussed "substantively" with meeting today (4 October 2023), other than the Seismic EP discussed on 25 July 2023 meeting, and that it was the first time Woodside has provided a "substantive" presentation describing the activities described in the D&C EP, SITI EP and Subsea EP.
•	EDO stated that did not agree to meet again on the 5th October in Karratha and controls relating to animals affected by the activities (1). EDO stated that did not agree to meet again on the 5th October in Karratha and could not proceed with the proposed agenda, as she could not share the story she wanted to share with Woodside anywhere other than on Rosemary Island. wished to engage in consultation and share information about her story and how her functions, interests and activities may be affected, she did not wish to meet in those circumstances (7, 8, 9, 14). EDO re-emphasised the importance of attending Rosemary Island for purposes of sharing information (7).
•	On 5 October 2023 Woodside emailed EDO acknowledging the email sent on 4 th Oct 2023 and stating that Woodside's understanding of the meeting differs. Woodside enquired if there were alternative approaches for to share her story from Rosemary Island, such as recording her story or inviting the Regulator to attend and that they remain open to understanding how the issue could be progressed (7, 8, 9, 14). Woodside also confirmed the meeting taking place at 10am on 5 October as another opportunity for and SOS to share and continue the discussion including on how and SOS' functions, interests and activities may be affected.
•	On 5 October 2023 EDO emailed Woodside stating that and EDO would not be attending the meeting that day.
•	considered Woodside had seriously damaged the relationship of trust and confidence required for consultation. EDO were instructed to say that was open to the prospect of future meetings if the relationship was able to be repaired (7, 8, 9, 14).
•	On 5 October 2023 Woodside emailed EDO sharing their disappointment that and SOS would not be attending the meeting that day. Woodside confirmed employees were at the Red Earth Arts Precinct centre, as agreed, and was ready, willing and able to participate in the meeting, and that this was another opportunity for to share her information on the Scarborough EPs. Woodside re-iterated that there was no disrespect intended towards to share her information requests put forward by making themselves available and demonstrating they were ready to listen. Woodside stated that there was a clear limit where consultation in the method proposed was not possible, including instances where there were unacceptable health and safety risk, as was the case in the instance of Woodside employees going onshore for a meeting with and SOS at Rosemary Island when it was advised not to, due to cultural sensitivity and cultural safety risks. Woodside reiterated that Woodside employees had received strong advice on cultural safety and did not have cultural permission to convene a meeting with or SOS on Rosemary Island and asked again if there were alternatives available for to share her information. A link to the NOPSEMA draft policy for managing gender restricted information (PL2098) was provided (7, 8, 9, 14).
•	On 5 October 2023, EDO sent a letter on behalf of to NOPSEMA, cc'd Woodside, which:

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from the vessels.

Where Woodside sources information

relating to species, migration patterns and

view, consultation with Woodside began in October or November 2022, (3); Acknowledged that, in ■ alleged that Woodside had "shared information regarding consultation with individuals outside of those involved in consultation" and that this "may be a breach of the cultural protocol agreed between Woodside and to enable consultation to occur in a culturally safe manner." Alleged that Woodside presented on matters outside of the agreed agenda, being control measures Woodside had adopted in each of its environment plans following the 12 September 2023 meeting; could not share information directly with Woodside in a culturally safe manner and that the trust and respect necessary for genuine consultation had been breached (8, 9, 14), (11), Sought to arrange a meeting with female representatives of NOPSEMA at Rosemary Island or "another place of equivalent cultural significance, where she is able to share her information in a culturally safe manner". On 9 October 2023 Woodside emailed NOPSEMA stating that Woodside disagreed with a number of statements contained within the EDO letter sent to NOPSEMA and, accordingly, wished to correct the record and provide context. Woodside had consistently provided opportunities for second and SOS to share information. and engage in two-way dialogue and had attempted to accommodate the varied consultation requests made by and SOS (7, 8, 9, 14). On 25 October 2023, EDO emailed NOPSEMA confirming that has not provided Woodside with information because, given the circumstances, there is no culturally safe manner in which Ms Cooper can share her story with Woodside. EDO requested again that NOPSEMA meet with process on Rosemary Island so that can share her story with NOPSEMA [Ref EDO email dated 25 October 2023] Summary of Feedback, Objection or Claim Woodside Energy's Assessment of Merits of **Environment Plan Controls** Feedback, Objection or Claim and its Response (1) Questions raised and addressed in meetings or in (1) Woodside has addressed the questions raised (1) Not required. Existing controls considered by SOS. and in meetings sufficient, as described in Section 6. Woodside subsequent emails: Whether the Scarborough activity included and in subsequent email responses [Ref for engages in ongoing consultation throughout the fracking example meetings on 14 March 2023; 25 July life of an EP. Should feedback be received after 2023; 12 September 2023; 4 October 2023 and How credible spill scenarios are the EP has been accepted (including any determined and who determines these. correspondence for example 17 September relevant new information on cultural features or 2023 email from Woodside to EDO1. heritage values), it will be assessed and, where Oil spill modelling Woodside undertakes. appropriate, Woodside will apply its Freshwater environments in the EMBA (2) Woodside confirmed the extraction of Whale migration patterns Management of Change and Revision process Scarborough gas for onshore processing is not (see Section 7.8.1). Seagrass distribution within the scope of the activity described in this Acoustic emissions, particularly from EP. Therefore, indirect impacts and risks (2) Not required seismic acquisition. arising from the onshore processing of (3) Not required How MFOs observe whales in the distance Scarborough gas are not considered indirect (4) Not required

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impacts/risks of the Petroleum Activities

other Scarborough EPs as appropriate.

Program for this EP but may be evaluated in

Woodside confirmed that emissions from the

(5) Not required

(6) Not required.

(7) Not required.

(8) Not required.

- Biologically Important Areas, particularly those relating to whales.
- Credibility of the science underpinning Woodside's assessment of noise impacts on species (particularly in reference to the Scarborough seismic EP).
- How equipment installed as part of the Scarborough project withstands earthquakes.
- The nature of the credible spill scenario associated with the various Scarborough activities (including this EP), and underlying information on how oil spill modelling is undertaken.
- Whether NOPSEMA approves OSPRMAs for EPs.
- Whether could seek her own external experts to provide opinion on the
- Additional information on the Jupiter field
- Environmental controls included in the EPs, including how these have changed overtime, and what controls have been considered and not implemented.
- Environmental impacts from Scarborough activities and how Woodside determines that environmental impacts are at an ALARP and acceptable level.
- (2) Threat posed to Murujuga rock art by Scarborough LNG and industrialization on the Burrup, and values associated with:
 - Murujuga
 - Murujuga rock art
- (3) Murujuga Aboriginal Corporation (MAC) are subject to gag clauses
- (4) Save Our Songlines, and desire to be consulted as a relevant person
- Need for EPs to consider cultural heritage impacts, both direct and indirect.

- activities covered by this EP are of a scale and physical remoteness from Murujuga's rock art that no credible impact pathway is foreseen. Woodside advised that no rock art will be displaced as a result of the Scarborough project. [For example email from Woodside 5 Jan 2023 and letter dated 17 April 2023]
- Woodside confirmed that none of Woodside's agreements with Traditional Custodians include 'gag clauses' or restrictions on voicing opinions on its projects. Woodside confirmed it has supported Traditional Custodian representative institutions to access relevant information and independent expert advice so that they are enabled to provide informed and considered feedback on the Scarborough project. [For example email from Woodside 5 Jan 2023 and letter dated 17 April 2023] In any event, Woodside notes that to the extent that this assertion is considered an objection or claim by or SOS, the objection or claim relates to consultation, and not to an adverse impact of an activity to which the EP relates.
- (4) Woodside has consulted extensively with and Save Our Songlines on both the proposed activity and the broader Scarborough project. Woodside has confirmed and Save Our Songlines are relevant for this EP and have responded to all requests for further information.[For example, see consultation record in this EP: letter dated 3 July 2023] In any event, as above at (3). Woodside notes that to the extent that this assertion is considered an objection or claim by , or SOS, the objection or claim relates to consultation, and not to an adverse impact of an activity to which the EP relates

- (9) Not required.
- (10) Not required (existing controls are sufficient)
- (11) Not required.
- (12) Not required.
- (13) Woodside has considered and SOS's feedback and updated **Section**4.9.1.5 to record topics of interest and cultural value, including those relating to whales. As a result of consultation with and SOS, Woodside has updated the noise adaptive management control relating to pygmy blue whales to also include humpback whales (C 3.6).
- (14) Not required.
- (15) Not required.
- (16) Woodside has considered topics raised by and SOS's as to interests and updated **Section 4.9.1.5** to record these. At this stage, no additional control measures have been implemented. Woodside engages in ongoing consultation throughout the life of an EP. Should feedback be received after the EP has been accepted (including any relevant new information on cultural features or heritage values), it will be assessed and, where appropriate, Woodside will apply its Management of Change and Revision process (see **Section 7.8.1**).
- (17) Not required.
- (18) Woodside has considered and SOS's feedback and updated **Section**4.9.1.5 to record topics of interest and cultural values, including songlines and energy lines. At this stage, Woodside has not been provided with specific information on these potential values so as to enable a more fulsome assessment. In lieu of additional information on these values, Woodside has implemented a control that inductions for all relevant marine

- (6) MAC does not represent the interests of Save Our Songlines. and . Save Our Songlines, and have interests that are separate and distinct from those of MAC. (7) Sensitive information shared by Save Our and was to be Songlines, treated with high sensitivity and confidentiality. Meeting protocols agreed by both parties should be met. (8) Save Our Songlines, ■ and not been afforded reasonable opportunity or sufficient information for consultation. (9) Save Our Songlines, ■ and ■ have interests they wish to share with Woodside, for consideration in Woodside's Scarborough Environment Plans. (10) Objection to the Scarborough gas project, including the view that no controls could be implemented to minimise potential impacts to cultural values. (11) Consultation with Save Our Songlines, and is still in its early stages [Ref: EDO letter 10 August 2023]. (12) Request for MAC ethnographic survey results to be shared with Save Our Songlines, . Requests to know who from MAC participated in the ethnographic surveys. (13) Cultural features associated with whales. (14) Need for Save Our Songlines. to share their cultural knowledge and story on Country. (15) That it is not appropriate for Woodside to consult on the Scarborough project as a whole (suite of 4 EPs) in each meeting. (16) Demonstrated an interest in:
- Woodside confirmed that EPs assess cultural heritage impacts, including both direct and indirect impacts and risks associated with the PAP. Woodside confirmed that the PAP is outside the National Heritage Place and anticipated boundary of the Murujuga Cultural Landscape World Heritage Property. As above (2), Woodside has confirmed that the extraction of Scarborough gas for onshore processing is not within the scope of the activity described in this EP and therefore that indirect impacts and risks arising from the onshore processing of Scarborough gas are not considered indirect impacts/risks of the Petroleum Activities Program for this EP but may be evaluated in other Scarborough EPs as appropriate. [For example, see email from Woodside 26 August 2022 and 5 Jan 2023 and letter dated 17 April 20231
- (6) Woodside has consulted with _____, ____ and SOS separately from MAC and other relevant representative bodies. [See consultation record] In any event, as above at (3), Woodside notes that to the extent that this assertion is considered an objection or claim by ______, ____ or SOS, the objection or claim relates to consultation, and not to an adverse impact of an activity to which the EP relates.
- (7) Sensitive information has been appropriately handed by Woodside in accordance with agreed protocols. Woodside has agreed with requests from _______, _____ and SOS in relation to meeting protocols. This has included significant efforts by Woodside to allocate women subject matter experts to prepare and attend meetings with ______, _____ and SOS where matters are otherwise managed by male subject matter experts for Woodside [For

crew will include information on cultural values, including tangible and intangible cultural heritage (**C 14.4**). This control was updated further during the October 4th 2023 meeting based on feedback received during the meeting that the control should be timebound.

Woodside has considered , and SOS's feedback and updated Section 4.9.1.5 to record indicated topics of interest and cultural values, including those relating to areas where freshwater and saltwater meet. In lieu of additional information on these values, Woodside has implemented a control that inductions for all relevant marine crew will include information on cultural values, including tangible and intangible cultural heritage (C 14.4). This control was updated further during the October 4th 2023 meeting based on feedback received during the meeting that the control should be timebound

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- Marine animals
- Seagrass and dugongs
- Pygmy blue whales
- Whales
- Turtles
- Underwater heritage
- Where saltwater and freshwater meet
- Potential impacts of the Scarborough project activities on whales (particularly the seismic activity).
- Sharks
- Water quality
- Seabirds
- Plankton
- Pelagic fish
- (17) The need for Woodside to consider all animals in EP impact assessments.
- (18) Cultural features associated with songlines, dreaming and energy lines.
- (19) Cultural values publicly available in the Affidavits of (September 2023) and Concise Statement (Ref. Section 4.9.1):
 - Murujuga
 - Rock art
 - Caring for Country
 - Bungarra
 - Eagle
 - Kangaroo

- example, see emails setting up meetings on 14 March 2023; 25 July 2023; 12 September 2023 and 4 October 2023. See emails on 3, 4 and 5 October 2023] In any event, as above at (3), Woodside notes that to the extent that this assertion is considered an objection or claim by or SOS, the objection or claim relates to consultation, and not to an adverse impact of an activity to which the EP relates
- (8) Woodside has, since at least 2022, provided information to and SOS to allow an informed assessment of the possible consequences of the activity on their functions, interests or activities in their Traditional Owner and eNGO capacities. The information provided by Woodside meets the requirements of Regulation 11A for the reasons set out above. and SOS have been provided a reasonable time and opportunity to consult in relation to this EP and all of the Scarborough EPs. [Please see consultation record]. In any event, as above at (3), Woodside notes that to the extent that this assertion is considered an objection or claim by or SOS, the objection or claim relates to consultation, and not to an adverse impact of an activity to which the EP relates.
- (9) Woodside has provided a reasonable period of time and ample opportunity for and SOS to provide the information that they say Woodside requires for its EPs. Despite providing that reasonable period of time and opportunity, and and SOS have not provided the information. Woodside has consistently sought to provide a culturally safe space for and SOS to share the information they wish to share with

 Woodside. Throughout consultation, and SOS have continued to state that they have additional information they wish to tell Woodside and that they say Woodside requires for its Environment Plans, and, despite Woodside offering ample opportunity, have expressly refused to provide information to Woodside.

a. [Ref for example 17 April 2023 letter, letters setting up each meeting on 14 March, 25 July, 12 September and 4 October and most recently 3, 4 and 5October 2023 correspondence]. There is a limit to consultation – Woodside is not required to wait indefinitely to receive this information. On a number of occasions,

declined to provide the information to Woodside and have instead provided information publicly [Affidavits of

September 2023] or offered to provide the information to others [Ref: letter to NOPSEMA 26 September 2022; letter to NOPSEMA 4 October 2023]. In any event, as above at (3), Woodside notes that to the extent that this assertion is considered an objection or claim by

or SOS, the objection or claim relates to consultation, and not to an adverse impact of an activity to which the EP relates

(10) Woodside considers that _____, and SOS have expressed a fundamental objection to the Scarborough project, including this EP. Despite this, Woodside has continued to engage in good faith to understand what

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- could be done to minimise any potential impacts to cultural interests and values held by and SOS. [See for example, consultation record and discussions with and SOS on their views regarding controls in place to manage topics of concern to them Ref for example 12 September and 4 October meetings].
- (11) This is refuted in the letter from EDO dated 4 October 2023 which confirms consultation commenced in at least 2022 [EDO 4 October 2023 letterl. Woodside considers that Consultation under Reg 11A is complete in circumstances because sufficient information, a reasonable period of time and opportunity have been provided to and SOS in their individual Traditional Owner and eNGO capacities. In any event, as above at (3), Woodside notes that to the extent that this assertion is considered an objection or claim by or SOS, the objection or claim relates to consultation, and not to an adverse impact of an activity to which the EP relates
- (12) Woodside has resourced Traditional Custodian representative institutions to access relevant information and independent expert advice so that they are enabled to provide informed and considered feedback on the broader Scarborough activities. A number of documents containing cultural heritage information, including heritage assessments, contain the intellectual property of Traditional Custodians or sensitive information that may be culturally restricted. For these reasons, Woodside does not disclose this information. This information is held by representative institutions and may be disclosed by them where they consider it appropriate to do so. Woodside has provided

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with the outcomes of these surveys to the extent that these can be shared publicly, consistent with the information in the public domain (i.e. where culturally appropriate). [Ref for example, 14 March 2023 and following correspondence]. In any event, as above at (3), Woodside notes that to the extent that this assertion is considered an objection or claim by or SOS, the objection or claim relates to consultation, and not to an adverse impact of an activity to which the EP relates

- (13) Woodside understands that whales hold spiritual and cultural importance to and SOS. Woodside has implemented controls to reduce potential risks and impact to whales to ALARP and to an acceptable level, and has discussed with and SOS, controls that Woodside has put in place to manage topics relating to the spiritual and cultural connection to whales that Woodside understands and SOS hold. [Ref for example, 25 July 2023 meeting and following correspondence, 12 September 2023 meeting and following correspondence as well as 4 October meeting]
- (14) Woodside has consistently sought to make arrangements for ______, ____ and SOS to be able to share their cultural knowledge and stories in a culturally appropriate manner, including offering and attending several on Country meetings [ref: 14 March, 25 July, 12 September and 4 October 2023 meetings]. Woodside also sought to meet the requests of _____ and SOS to attend an on-Country meeting at Rosemary Island, but was cautioned by the relevant cultural authority that Woodside did not have cultural

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permissions or spiritual protection to do so. Woodside and reached a compromise relating to circumnavigating Rosemary Island rather than going on shore. later refused this compromise and refused to share information [Ref meeting on 4 October 2023]. In any event, as above at (3), Woodside notes that to the extent that this assertion is considered an objection or claim by or SOS, the objection or claim relates to consultation, and not to an adverse impact of an activity to which the EP relates and SOS originally sought to consult on all Scarborough EPs at once and confirmed they have information and "objections" to share on all Scarborough EPs as early as September 2022. [Ref correspondence and information in the public domain from around February 2022, July 2022, 26 August 2022 and 4 January 2023] From about June 2023, this position changed and and SOS expressly directed Woodside to consult on individual EPs. Woodside has been ready, willing and able to consult on all Scarborough EPs (including this EP) since consultation commenced, and prepared materials to consult on all EPs – and attempted to present these materials – however was directed by EDO to only talk about Seismic, or to describe activities and not cover controls [Ref. 12 September 2023 meeting and 4 October 2023 meeting]. In any event, as above at (3). Woodside notes that to the extent that this assertion is considered an objection or claim by or SOS, the objection or claim relates to consultation, and not to an adverse impact of an activity to which the EP relates

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- and SOS have not expressly confirmed their interests and rather, have raised topics of interest to them.

 Woodside has considered , and SOS's topics of interest and shared relevant information with and SOS relating to these interests, including controls put in place to manage risks and impacts to them, during meetings and subsequent emails. [Ref for example, 25 July 2023 meeting and following correspondence, 12 September 2023 meeting and following correspondence; 4 October 2023 meeting]
- (17) Woodside has confirmed that consideration is given to all marine animals in the Environment Plan preparation process. Marine fauna that may credibly be impacted by both direct or indirect activities are considered in the impact assessment (s. 6). Woodside has also stepped through these issues during consultation meetings [Ref for example 12 September 2023 meeting and 4 October 2023 meeting]
- (18) Woodside understands that songlines and energy lines to hold spiritual and cultural value to and SOS. Woodside has consistently sought to understand the nature of these values to ensure impacts to these values can be minimised.

 and SOS have declined to provide further information on these values. In any event, Woodside has sought to include controls that seek to reduce risks and impacts to ALARP and acceptable levels and has sought and sought and sought sought and sought sou
- (19) Through the publicly available Affidavits of September 2023) and Concise

meeting and following correspondence; 4

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October 2023 meeting]

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Statement, Woodside has been made aware that and SOS may hold cultural and spiritual values associated with caring for Country, bungarra, eagle and kangaroo. Bungarra, eagles and kangaroos have not been identified as species credibly impacted by either direct or indirect activities associated with this proposed activity. Woodside has not been provided with any additional detail regarding values associated with Caring for Country. However, Woodside engages in ongoing consultation throughout the life of an EP. Should feedback be received after the EP has been accepted (including any relevant new information on cultural values), it will be assessed and, where appropriate, Woodside will apply its Management of Change and Revision process (see Section 7.8.1). and SOS have Woodside and engaged in extensive two-way dialogue on both the proposed activity and the broader Scarborough project. and SOS have sought clarification on specific aspects of the activity, as outlined above (1). These queries were responded to in respective meetings and/ or in subsequent email correspondence. ■ and SOS have been afforded sufficient information, a reasonable period of time and opportunity in their individual Traditional Owner and eNGO capacities

Table 2: Engagement Report with Persons or Organisations Assessed as Not Relevant

Commonwealth Commercial fisheries and representative bodies

Australian Southern Bluefin Tuna Industry Association (ASBTIA)

Summary of information provided and record of consultation:

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- On 21 September 2022, Woodside emailed ASBTIA advising of the proposed activity (Appendix F, reference 1.23) and provided a Consultation Information Sheet, Consultation FAQ and fisheries map
- On 13 October 2022, Woodside sent a follow up email (Appendix F, reference 1.78).
- On 3 February 2023, Woodside emailed ASBTIA on the proposed activity (Appendix F, reference 1.139) and provided a Consultation Information Sheet and fisheries
 map.
- On 22 February 2023 Woodside sent a follow up email (Appendix F, reference 1.171).
- On 17 May 2023, Tuna Australia sent an email to NOPSEMA, and copied in Woodside, regarding Woodside's position on engagement with Tuna Australia. The email stated:

When energy companies execute a service agreement with Tuna Australia, this ensures that all Western Tuna and Billfish Fishery (WTBF) and Eastern Tuna and Billfish Fishery concession holders are consulted on environmental plans and responses are provided in a report.

Woodside do not have an appreciation of the nature fishing and are more content to receive information to support their environmental plans and proposals free of charge.

This is not consistent with their company values.

Woodside has failed to recognise the WTBF is a relevant person.

WTBF concession holders are very concerned with developments in their fishing zone and have many comments and questions on environmental plans and proposals.

Tuna Australia requested that to meet sound consultation principles NOPSEMA stipulate that all environmental plan submissions receive formal advice from Tuna Australia.

Summary of Feedback, Objection or Claim	Woodside Energy's Assessment of Merits of Feedback, Objection or Claim and its Response	Environment Plan Controls
No feedback, objections or claims received despite follow up.	Woodside has provided consultation information to AFMA, DAFF – Fisheries, CFA, ASBTIA, Tuna Australia, WAFIC and individual relevant licence holders. Woodside engages in ongoing consultation throughout the life of an EP. Should feedback be received after the EP has been accepted, it will be assessed and, where appropriate, Woodside will apply its Management of Change and Revision process (see Section 7).	Woodside has assessed the relevancy of Commonwealth fisheries issues in Section 4.9.2 of this EP. Woodside will provide notifications to AFMA, DAFF – Fisheries, DPIRD, WAFIC, CFA, and relevant Fishery Licence Holders that have the potential to be directly impacted by planned activities in the Operational Area prior to the commencement and at the end of the activity, as referenced as PS 2.4.1 in this EP. No additional measures or controls are required.

Pearl Producers Australia

Summary of information provided and record of consultation:

• On 21 September 2022, Woodside emailed Pearl Producers Australia advising of the proposed activity (Appendix F, reference 1.21) and provided a Consultation Information Sheet, Consultation FAQ and fisheries map.

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 On 13 October 2022, Woodside sent a follow up email (Appendix F, reference 1.80). 		
Summary of Feedback, Objection or Claim	Woodside Energy's Assessment of Merits of Feedback, Objection or Claim and its Response	Environment Plan Controls
No feedback, objections or claims received despite follow up.	Woodside has provided consultation information to AFMA, DAFF – Fisheries, CFA, ASBTIA, Tuna Australia, WAFIC and individual relevant licence holders. Woodside engages in ongoing consultation throughout the life of an EP. Should feedback be received after the EP has been accepted, it will be assessed and, where appropriate, Woodside will apply its Management of Change and Revision process (see Section 7).	Woodside has assessed the relevancy of Commonwealth fisheries issues in Section 4.9.2 of this EP. Woodside will provide notifications to AFMA, DAFF – Fisheries, DPIRD, WAFIC, CFA, and relevant Fishery Licence Holders that have the potential to be directly impacted by planned activities in the Operational Area prior to the commencement and at the end of the activity, as referenced as PS 2.4.1 in this EP. No additional measures or controls are required.

Other non-government groups or organisations

Australasian Centre for Corporate Responsibility (ACCR)

Summary of information provided and record of consultation:

- On 21 September 2022, Woodside emailed ACCR advising of the proposed activity (Appendix F, reference 1.34) and provided a Consultation Information Sheet and Consultation FAQ.
- On 13 October 2022, Woodside followed-up via email (Appendix F, reference 1.96).

Summary of Feedback, Objection or Claim	Woodside Energy's Assessment of Merits of Feedback, Objection or Claim and its Response	Environment Plan Controls
No feedback, objections or claims received despite follow up.	Woodside engages in ongoing consultation throughout the life of an EP. Should feedback be received after the EP has been accepted, it will be assessed and, where appropriate, Woodside will apply its Management of Change and Revision process (see Section 7).	No additional measures or controls are required.

The Climate Council (TCC)

Summary of information provided and record of consultation:

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- On 21 September 2022, Woodside emailed TCC advising of the proposed activity (Appendix F, reference 1.40) and provided a Consultation Information Sheet and Consultation FAQ.
- On 13 October 2022, Woodside followed-up via email (Appendix F, reference 1.95).

Summary of Feedback, Objection or Claim	Woodside Energy's Assessment of Merits of Feedback, Objection or Claim and its Response	Environment Plan Controls
No feedback, objections or claims received despite follow up.	Woodside engages in ongoing consultation throughout the life of an EP. Should feedback be received after the EP has been accepted, it will be assessed and, where appropriate, Woodside will apply its Management of Change and Revision process (see Section 7).	No additional measures or controls are required.

Doctors for the Environment Australia (DEA)

Summary of information provided and record of consultation:

- On 21 September 2022 Woodside emailed DEA advising of the proposed activity (Appendix F, reference 1.44) and provided a Consultation Information Sheet and Consultation FAQ.
- On 13 October 2022 Woodside followed-up via email (Appendix F, reference 1.84).

Summary of Feedback, Objection or Claim	Woodside Energy's Assessment of Merits of Feedback, Objection or Claim and its Response	Environment Plan Controls
No feedback, objections or claims received despite follow up.	Woodside engages in ongoing consultation throughout the life of an EP. Should feedback be received after the EP has been accepted, it will be assessed and, where appropriate, Woodside will apply its Management of Change and Revision process (see Section 7).	No additional measures or controls are required.

Extinction Rebellion WA (XRWA)

Summary of information provided and record of consultation:

- On 21 September 2022, Woodside emailed XRWA advising of the proposed activity (Appendix F, reference 1.37) and provided a Consultation Information Sheet and Consultation FAQ.
- On 13 October 2022, Woodside followed-up via email (Appendix F, reference 1.93).
- On 14 October 2022 XRWA emailed Woodside:

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- XRWA advised it is 'entirely opposed to all of Woodside's new offshore gas extraction projects'.
- XRWA stated: 'Attempting to distract from the disastrous damage to the global environment that will ensue from Woodside's new projects by seeking responses to their small component parts can only be viewed as cynical and desperate'.
- XRWA advised that when Woodside is ready to respond in a considered and responsible manner to the overwhelming weight of scientific opinion that demands that there
 must be no new gas projects Extinction Rebellion WA will be only too happy to meet with Woodside.
 - On 1 November 2022, Woodside responded to XRWA's previous email reiterating the purpose of the previous email was to seek to consult on the proposed activities in relation to the specific issue of carbon emissions raised in XRWA's email. Woodside confirmed that extraction of gas is not within the scope of the activity in the Subsea EP. Woodside also acknowledged that XRWA does not wish to engage further on the Subsea EP which Woodside respectfully acknowledged.

Summary of Feedback, Objection or Claim	Woodside Energy's Assessment of Merits of Feedback, Objection or Claim and its Response	Environment Plan Controls
XRWA has provided feedback that it is opposed to all of Woodside's new offshore gas extraction projects, and it does not wish to be consulted by Woodside on the proposed activity. Whilst feedback has been received, there were no objections or claims.	Woodside engages in ongoing consultation throughout the life of an EP. Woodside notes that further feedback may be received as part of ongoing consultation. Should feedback be received after the EP has been accepted, it will be assessed and, where appropriate, Woodside will apply its Management of Change and Revision process (see Section 7).	No additional measures or controls are required.

Friends of Australian Rock Art. Inc (FARA)

Summary of information provided and record of consultation:

- On 21 September 2022, Woodside emailed FARA advising of the proposed activity (Appendix F, reference 1.45) and provided a Consultation Information Sheet and Consultation FAQ.
- On 13 October 2022, Woodside followed-up via email (Appendix F, reference 1.85).

Summary of Feedback, Objection or Claim	Woodside Energy's Assessment of Merits of Feedback, Objection or Claim and its Response	Environment Plan Controls
No feedback, objections or claims received despite follow up.	Woodside engages in ongoing consultation throughout the life of an EP. Should feedback be received after the EP has been accepted, it will be assessed and, where appropriate, Woodside will apply its Management of Change and Revision process (see Section 7).	No additional measures or controls are required.

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International Fund for Animal Welfare (IFAW)

Summary of information provided and record of consultation:

- On 21 September 2022, Woodside emailed IFAW advising of the proposed activity (Appendix F, reference 1.28) and provided a Consultation Information Sheet and Consultation FAQ.
- On 13 October 2022, Woodside followed-up via email (Appendix F, reference 1.87).

Summary of Feedback, Objection or Claim	Woodside Energy's Assessment of Merits of Feedback, Objection or Claim and its Response	Environment Plan Controls
No feedback, objections or claims received despite follow up.	Woodside engages in ongoing consultation throughout the life of an EP. Should feedback be received after the EP has been accepted, it will be assessed and, where appropriate, Woodside will apply its Management of Change and Revision process (see Section 7).	No additional measures or controls are required.

Lock The Gate Alliance (LTGA)

Summary of information provided and record of consultation:

- On 21 September 2022 Woodside emailed LTGA advising of the proposed activity (Appendix F, reference 1.42) and provided a Consultation Information Sheet and Consultation FAQ.
- On 13 October 2022 Woodside followed-up via email (Appendix F, reference 1.86).

Summary of Feedback, Objection or Claim	Woodside Energy's Assessment of Merits of Feedback, Objection or Claim and its Response	Environment Plan Controls
No feedback, objections or claims received despite follow up.	Woodside engages in ongoing consultation throughout the life of an EP. Should feedback be received after the EP has been accepted, it will be assessed and, where appropriate, Woodside will apply its Management of Change and Revision process (see Section 7).	No additional measures or controls are required.

Market Forces

Summary of information provided and record of consultation:

• On 21 September 2022, Woodside emailed Market Forces advising of the proposed activity (Appendix F, reference 1.39) and provided a Consultation Information Sheet and Consultation FAQ.

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On 13 October 2022, Woodside followed-up via email (Appendix F, reference 1.97).		
Summary of Feedback, Objection or Claim	Woodside Energy's Assessment of Merits of Feedback, Objection or Claim and its Response	Environment Plan Controls
No feedback, objections or claims received despite follow up.	Woodside engages in ongoing consultation throughout the life of an EP. Should feedback be received after the EP has been accepted, it will be assessed and, where appropriate, Woodside will apply its Management of Change and Revision process (see Section 7).	No additional measures or controls are required.

World Wildlife Fund (WWF) Australia

Summary of information provided and record of consultation:

- On 21 September 2022, Woodside emailed WWF advising of the proposed activity (Appendix F, reference 1.49) and provided a Consultation Information Sheet and Consultation FAQ.
- On 13 October 2022, Woodside followed-up via email (Appendix F, reference 1.89).

Summary of Feedback, Objection or Claim	Woodside Energy's Assessment of Merits of Feedback, Objection or Claim and its Response	Environment Plan Controls
No feedback, objections or claims received despite follow up.	Woodside engages in ongoing consultation throughout the life of an EP. Should feedback be received after the EP has been accepted, it will be assessed and, where appropriate, Woodside will apply its Management of Change and Revision process (see Section 7).	No additional measures or controls are required.

Research institutes and local conservation groups or organisations

University of Western Australia (UWA)

Summary of information provided and record of consultation:

- On 11 November 2022, Woodside emailed UWA advising of the other proposed Scarborough activities Woodside asked for details of any research activities UWA is undertaking that may overlap with the proposed activities (Appendix F, reference 1.101)
- On 17 November 2022, UWA emailed Woodside:

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- UWA undertook a Multibeam Survey of the Madeline Shoals and although it captured most of the area, the geology appears to continue north into the Dampier Marine Park.
- The northern tip of UWA's MBES survey mapped outcropping igneous rock on the seabed is 1.3 km south of the Borrow Grounds SW boundary.
- UWA has heard from Oceanic Offshore that they know of other hardgrounds north of the Madeline Shoals, but they did not have the time to follow up on their lead.
- UWA also noted it has a Parks Australia Grant to undertake habitat mapping of the Dampier Marine Park (early 2023) and it is to investigate the extent of the hard rocky terrains within this zone.
- On 18 November 2022, UWA emailed Woodside:
- UWA also shared that the Madeleine Shoals have been added to the cultural landscape boundaries of the World heritage nomination dossier.
 - On 14 December 2022, Woodside emailed UWA and arranged a time to meet.
- On 15 December 2022, Woodside met with representatives from UWA via video conference to provide a briefing on the broader Scarborough Project activities and related EPs. During its meeting UWA confirmed:
- In general, Woodside's offshore activities are out of the scope of interest for UWA; however, it has a particular interest in the Madeleine Shoals and the adjacent borrow ground in Commonwealth waters.
- There is a lack of data on terrain outside of the current mapping on Madeleine Shoals that, while unlikely, may extend north (towards the borrow ground area).
- The full extent of the terrain was not captured given time and cost constrains.
- The current mapping has the Shoals mapped ~100 m from the marine park boundary and ~1.3 km from the borrow ground boundary.
- UWA also acknowledged Woodside may already have mapping of the borrow ground that indicates no exposed rock or hard material.
- Woodside confirmed extensive studies of the borrow ground and adjacent marine park found no hard material and a substantial depth of sand.
- UWA concluded it has submitted for additional funding for further exploration of Madeleine Shoals.
 - On 6 February 2023, Woodside emailed UWA (Appendix F, reference 1.152) and:
- Noted Woodside appreciated the opportunity to meet with UWA in December to discuss the Scarborough development and related EPs, including the activities proposed under this EP.
- Noted Woodside understood from the meeting that the proposed Scarborough activities are predominantly outside the scope of interest for UWA but wanted to bring to the UWA's attention that it had updated its Consultation Information Sheets for the Scarborough EPs.
- Noted Woodside would soon be submitting the proposed EPs and requested any additional feedback from UWA.

Summary of Feedback, Objection or Claim	Woodside Energy's Assessment of Merits of Feedback, Objection or Claim and its Response	Environment Plan Controls
UWA and Woodside have met to discuss the broader Scarborough activities and UWA has advised that the proposed activities are predominantly outside the scope of interest for UWA.	Woodside has provided additional information to UWA during the meeting on 15 December 2022 relating to UWA's areas of interest. UWA has advised that the proposed activities are predominantly outside the scope of their interest. Woodside engages in ongoing consultation throughout the life of an EP. Woodside notes that further feedback may be received as part of ongoing	No additional measures or controls are required.

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there were no objections or claims. be asses	Should feedback be received after the EP has been accepted, it will and, where appropriate, Woodside will apply its Management of Revision process (see Section 7).
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Western Australian Marine Science Institution (WAMSI)

Summary of information provided and record of consultation:

- On 3 February 2023, Woodside emailed WAMSI advising of the proposed activity (Appendix F, reference 1.147) and provided an updated Consultation Information Sheet. Woodside also asked for details of any research activities WAMSI is undertaking that may overlap with the proposed activity.
- On 22 February 2023, Woodside sent a follow up email (Appendix F, reference 1.169).

Summary of Feedback, Objection or Claim	Woodside Energy's Assessment of Merits of Feedback, Objection or Claim and its Response	Environment Plan Controls
No feedback, objections or claims received despite follow up.	Woodside engages in ongoing consultation throughout the life of an EP. Should feedback be received after the EP has been accepted, it will be assessed and, where appropriate, Woodside will apply its Management of Change and Revision process (see Section 7).	No additional measures or controls are required.

Commonwealth Scientific and Industrial Research Organisation (CSIRO)

Summary of information provided and record of engagement:

- On 6 February 2023, Woodside emailed CSIRO advising of the proposed activity (Appendix F, reference 1.163) and provided an updated Consultation Information Sheet. Woodside also asked for details of any research activities CSIRO is undertaking that may overlap with the proposed activity.
- On 22 February 2023, Woodside sent a follow up email (reference 1.173).

Summary of Feedback, Objection or Claim	Woodside Energy's Assessment of Merits of Feedback, Objection or Claim and its Response	Environment Plan Controls
No feedback, objections or claims received despite follow up.	Woodside engages in ongoing consultation throughout the life of an EP. Should feedback be received after the EP has been accepted, it will be assessed and, where appropriate, Woodside will apply its Management of Change and Revision process (see Section 7).	No additional measure or controls are required.

Australian Institute of Marine Science (AIMS)

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Summary of information provided and record of engagement:

- On 21 September 2022, Woodside emailed AIMS (Appendix F, reference 1.8) advising of the proposed activity and provided a Consultation Information Sheet and Consultation FAQ.
- On 13 October 2022, Woodside sent a follow up email (Appendix F, reference 1.78).
- On 6 February 2023, Woodside emailed AIMS advising of the proposed activity (Appendix F, reference 1.156) and provided an updated Consultation Information Sheet. Woodside also asked for details of any research activities AIMS is undertaking that may overlap with the proposed activity.
- On 9 February 2023, AIMS emailed Woodside thanking it for the opportunity to consider the proposed activity.
- AIMS confirmed there are no overlaps with planned AIMS science activities in the area.

Summary of Feedback, Objection or Claim	Woodside Energy's Assessment of Merits of Feedback, Objection or Claim and its Response	Environment Plan Controls
AIMS has responded and confirmed there are no overlaps with planned AIMS science activities in the area. Whilst feedback has been received, there were no objections or claims.	AIMS confirmed there are no overlaps with planned AIMS science activities in the area. Woodside engages in ongoing consultation throughout the life of an EP. Woodside notes that further feedback may be received as part of ongoing consultation. Should feedback be received after the EP has been accepted, it will be assessed and, where appropriate, Woodside will apply its Management of Change and Revision process (see Section 7).	No additional measures or controls are required.

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1. CONSULTATION

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1.1 Woodside Consultation Information Sheet & FAQ (September 2022) (sent to all relevant stakeholders)



WA-61-L AND WA-62-L SUBSEA INFRASTRUCTURE INSTALLATION ENVIRONMENT PLAN

CARNARVON BASIN, NORTH-WEST AUSTRALIA

Proposed Activity

Woodside (as Operator of the Scarborough Project) is planning to undertake seabed site surveys and installation of subsea production infrastructure within Permit Areas WA-61-L and WA-62-L, around 374 km west-northwest of Dampier, Western Australia.

Proposed activities will include visual pre- and post-installation surveys, and installation of flowlines, umbilicals and risers, which will be required for the flow and control of hydrocarbons and produced water to the Scarborough Floating Production Unit (FPU). Mooring legs and suction piles will also be installed in preparation for the arrival of the FPU.

A gravimentry survey is also planned to be undertaken in Permit Areas WA-61-L and WA-62-L to support Woodside's knowledge of the Scarborough reservoir. Subsea gravimetric surveys have been used for more than 20 years, mainly in the North Sea, to deliver a field wide measurement of gravity. This information will provide direct measurement of water movement and saturation, as well as reservoir compaction and subsidence. Data from the baseline and future surveys will complement data acquired over time by Woodside from marine seismic surveys at the Scarborough location to support reservoir management and performance.

Proposed activities are planned to commence in the second half of 2023. Activities are planned to be undertaken in multiple campaigns, with an expected total duration of 18 months. When underway, activities will be 24 hours per day, seven days per week.

Project vessels

Proposed survey and installation activities will be performed by up to four dedicated and specialised dynamically positioned activity and support vessels. Details on vessels are included in **Table 1**

Communication with Mariners

The Operational Area for activities includes a radius of:

- 1000 m around location of the outermost concrete pads.
- 1500 m around location of subsea infrastructure.
- · 2000 m around future location of FPU.

A temporary 500 m exclusion zone will be in place around vessels to manage vessel movements. Other marine users are permitted to use but should take care when entering the Operational Area and remain clear of the exclusion zone.

Assessment

Woodside has undertaken an assessment of the potential risks to the marine environment as well as the potential impacts to relevant persons arising from the planned activities. This assessment considers timing, duration and location of the planned activities.

A number of mitigation and management measures will be implemented and are summarised in **Table 3**. Further details will be provided in the EP, which is being developed to manage proposed activities.

In preparing the EP, our intent is to minimise environmental and social impacts associated with the proposed activities, and we are seeking any interest or comments you may have to inform our decision making.

Joint Venture

Following completion of the merger with BHP Petroleum on 1 June 2022, Woodside (Operator) owns 100% of the Scarborough (WA 61-L), North Scarborough (WA-62-L), Thebe (WA-63-R) and Jupiter (WA-61-R) as fields.

We welcome your feedback by 21 October 2022.



Figure 1. Petroleum Activity Program Operational Area. Details on the location of the proposed infrastructure are included in Table 2.

1 WA-61-L and WA-62-L Subsea Infrastructure Installation Environment Plan

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WA-61-L and WA-62-L Subsea Infrastructure In	stallation Environment Plan
Permit Area	WA-61-L and WA-62-L
Approximate water depth	• -900 -1000 m
Commencement date	 Activities are planned to commence in H2 2023, with activities estimated to be completed in 18 months with activities occurring in multiple campaigns
	The individual campaigns comprise:
	 Installation of temporary concrete pads and conduct of the gravimetry
	 baseline survey First campaign for installation of subsea umbilicals, risers, and flowlines
	FPU mooring pre-lay surveys and suction pile installation
	Second campaign for installation of subsea umbilicals, risers, and flowlines
Approximate estimated duration	Approximately 18 months (cumulative) for the survey and installation activities
Infrastructure	Pre-installation of the following infrastructure:
	• 3×flowlines
	 1 x riser base manifold and foundation
	 13 - 25 x mud mats
	 7 x in-line structures & 6 x flowline end terminations
	 9 x umbilical termination assemblies
	 3 x subsea distribution units/assemblies
	16 x umbilicals and jumpers, additional flying leads
	1 x trunkline spool and support
	 20 x mooring legs and 20 x suction piles for FPU Up to 265 concrete pads for future gravimetry surveys
	Temporary installation of the following infrastructure and related activities:
	1 x suction pile and leader wire for flowline lay initiation
	 Installation aids (i.e. transponder arrays, frames) Wet-storing of dynamic umbilicals and risers
	Pre-progress and post-installation surveys
	Baseline gravimetry survey
	Pressure and leak testing
	 Contingent activities including debris removal as required, transportation of equipment to field with tug and barge spread
Vessels	Light construction vessels
	Heavy construction vessels
	Heavy lift vessels
	Derrick lay vessel
	Reel-lay vessels
	Survey vessels
	Support vessels
Operational Areas and Exclusion zones	 The Operational Area for activities includes a radius of:
	 1000 m around location of the outermost concrete pads
	 1500 m around location of subsea infrastructure
	2000 m around future location of FPU
	Temporary 500 m exclusion zone around vessels to manage vessel movements
	 An interactive map showing the location of the proposed activities will be available on the Woodside website and will be updated throughout the proposed activities
Distance to nearest town	- 244 km north-northwest of Exmouth, - 374 km west-northwest of Dampier
Distance to nearest marine park/nature reserve	* 77 km north of the Gascoyne Marine Park (Cwlth)
	- 201 km north-west of Montebello Marine Park (Cwlth)
	- 180 km north-northwest of Ningaloo Marine Park (Cwlth)
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Table 2. Summary of proposed installation locations

Structure	Approx. Water Depth (m)	Latitude	Longitude	Permit Area
For installation				
Start of Flowline A and associated infrastructure	~ 944	19° 55' 08.55"S	113° 13′ 47.80″E	WA-61-L
End of Flowline A and associated infrastructure	- 914	19° 46′ 16.45″S	113° 11′ 39.00″E	WA-61-L
Start of Flowline B and associated infrastructure	- 945	19° 55′ 12.11"S	113° 13′ 45.17″E	WA-61-L
End of Flowline B and associated infrastructure	- 919	19° 52' 30.84"S	113° 06′ 39.90″E.	WA-61-L
Start of Flowline C and associated infrastructure	× 945	19° 55′ 14.51"S	113° 13′ 43.94″E	WA-61-L
End of Flowline C and associated infrastructure	~ 912	19° 53' 47.55"S	113° 06′ 54.73″E	WA-61-L
Northern end of mooring array	- 915	19° 54′ 40.48″S	113° 14′ 31.38″E	WA-61-L
Southern end of mooring array	× 958	19° 56′ 26.98″S	113° 14' 28.11"E	WA-61-L
Eastern end of mooring array	~ 955	19° 55' 34.48"S	113° 15′ 26.04″E	WA-61-L
Western end of mooring array	- 948	19° 55' 32.77"S	113° 13′ 33,29″E	WA-61-L

Table 3. Summary of key risks and/or impacts and management measures

Potential Risk and/or impact	Mitigation and/or Management Measure	
Planned		
Physical presence of infrastructure on seafloor causing interference or displacement	Consultation with relevant persons. For example, commercial fishers and their representative organisations, petroleum titleholders and government departments and agencies to inform decision making for the proposed activity and developmen of the EP.	
	Relevant notifications prior to the commencement of activities.	
	Infrastructure will be marked on marine charts.	
Chemical use	Chemical use will be managed in accordance with Woodside and contractor chemical selection and approval procedures.	
Marine discharges	Routine marine discharges will be managed according to legislative and regulatory requirements.	
Seabed disturbance	No anchoring of project vessels.	
	Attempted retrieval of dropped objects.	
	Removal of temporary installation aids post-use, with verification of removal via ROV survey.	
	Infrastructure to be installed within the design footprint using positioning technology.	
Vessel interaction	Navigation aids and practices will be used as required by Maritime Regulations to minimise potential impact on other marine users.	
	Commercial fishers and other marine users are permitted to use but should take care when entering the Operational Area.	
	Stakeholder engagement activities will be conducted as part of the EP.	

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Potential Risk and/or impact	Mitigation and/or Management Measure
Waste generation	Waste generated on the vessels will be managed in accordance with legislative requirements and a Waste Management Plan.
	Wastes will be managed and disposed of in a safe and environmentally responsible manner to prevent accidental loss to the environment.
	Wastes transported onshore will be sent to appropriate recycling or disposal facilities by a licensed waste contractor.
Emissions to atmosphere	Energy efficiency opportunities to be identified, implemented and tracked by contractors.
	Reporting of Greenhouse Gas emissions as required by regulatory requirements.
Underwater noise	Due to the low acoustic source levels associated with vessel operations and temporary nature of the activities, there will not be any significant impacts to marine species.
	Compliance with Environment Protection and Biodiversity Conservation (EPBC) Regulations 2000 (Cth) - Part 8 Division 8.1 (Regulation 8.05 and 8.06) Interacting with cetaceans.
Light emissions	Lighting will be limited to the minimum required for operational, navigational and safety requirements, with the exception of emergency events.
Unplanned	
Hydrocarbon release	Appropriate spill response plans, equipment and materials will be in place and maintained.
	Appropriate refuelling procedures and equipment will be used to prevent spills to the marine environment.
	Simultaneous Operations Plans will be used to prevent loss of marine vessel separation.
Marine fauna interactions	Vessel masters will implement interaction management actions in accordance with the EPBC Regulations 2000 (Cth).
Introduction of invasive marine species	Vessels will be assessed and managed as appropriate to prevent the introduction o invasive marine species.
	Compliance with Australian biosecurity requirements and guidance.
Chemical spills	Appropriate storage and handling of chemicals will be implemented to prevent spills to the marine environment; Appropriate spill response plans, equipment and materials will be in place and maintained.
Seabed disturbance	Appropriate lifting procedures will be in place; Any material dropped objects will

Feedback

Woodside consults relevant persons in the course of preparing Environment Plans to notify them of the activity and to obtain relevant feedback to inform its planning for proposed petroleum activities in the region.

If you would like to comment on the proposed activities outlined in this information sheet, or would like additional information, please contact Woodside before 21 October 2022 via;

E: Feedback@woodside.com.au

Toll free: 1800 442 977

You can subscribe on our website to receive Consultation Information Sheets for proposed activities: **www.woodside.com**

Please note that stakeholder feedback will be communicated to the National Offshore Petroleum Safety and Environmental Management Authority (NOPSEMA) as required under legislation. Woodside will communicate any material changes to the proposed activity to affected stakeholders as they arise.

Please note that your feedback and our response will be included in our Environment Plan for the proposed activity, which will be submitted to NOPSEMA for acceptance in accordance with the Offshore Petroleum and Greenhouse Gas Storage (Environment) Regulations 2009 (Cth).

Please let us know if your feedback for this activity is sensitive and we will make this known to NOPSEMA upon submission of the Environment Plan in order for this information to remain confidential to NOPSEMA.

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INFORMATION SHEET

September 2022

WA-61-L AND WA-62-L SUBSEA INFRASTRUCTURE INSTALLATION ENVIRONMENT PLAN

Woodside (as Operator of the Scarborough Project) is planning to undertake seabed site surveys and installation of subsea production infrastructure within Permit Areas WA-61-L and WA-62-L, about 374 km west-northwest of Dampier. Western Australia.

These activities are required as part of the ongoing development of the Scarborough Project and in preparation for the arrival and integration of the Scarborough Floating Production Unit (FPU) into the offshore gas production system.

Woodside is undertaking stakeholder consultation to support the development of an Environment Plan (EP) for these planned activities in accordance with requirements under the *Offshore Petroleum and Greenhouse Gas Storage Act 2006* (Commonwealth).

Woodside consults relevant persons when preparing EPs to obtain appropriate feedback which informs planning for proposed petroleum activities, and builds upon Woodside's ongoing stakeholder consultation for its offshore petroleum activities in the region. This process may evolve throughout the life of the EP.

Information provided in this supplementary fact sheet has been developed based on previous stakeholder interest and feedback regarding other planned Scarborough Project activities and related EPs.

Frequently asked questions

Planned activities

What is involved with the subsea installation program?

Proposed activities include installation of flowlines, umbilicals, risers and supporting infrastructure, which will be required for the flow and control of hydrocarbons and produced water to the Scarborough Floating Production Unit (FPU), Installation is planned to occur over two campaigns, each approximately three months in duration.

Suction piles and mooring legs will be wet stored on the seabed in preparation for the arrival of the FPU. Suction piles eliminate the need for driven piles, meaning that impulsive noise sources are eliminated and impacts on marine fauna minimised. Installation is planned to occur in a single campaign, approximately three months in duration.

Concrete pads will be installed for use in gravimetric surveys. Installation and a baseline survey is planned to occur across two campaigns, each approximately two months in duration. This activity is further described in a following FAQ.

Various pre- and post-installation surveys are planned to occur throughout the campaigns, as well as installation of positioning systems and installation aids to enable execution.

What are the potential environmental impacts from the subsea installation program?

Woodside has undertaken an assessment of the potential risks to the marine environment as well as the potential impacts to relevant persons arising from the planned activities. This assessment considers timing, duration and location of the planned activities.

Potential impacts to the marine environment from planned activities are expected to be slight and short-term given the nature and scale of installation and survey activities, as well as the ongoing presence of infrastructure

Management measures to reduce impacts to "as low as reasonably practicable" (ALARP) are being developed in preparing the EP, and are summarised for key impacts and risks in the Consultation Information Sheet for this EP.

Woodside has also assessed potential impacts to other marine users in the region. Again, these are expected to be slight given the low likelihood of interaction with commercial or recreation fishers, operators of commercial shipping or other resource industry developers.

1 WA-61-L and WA-62-L Subsea Infrastructure Installation Environment Plan

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How do you determine what is an ALARP position for these activities?

The ALARP position refers to the reduction of risk to a level where no additional controls are reasonably practicable to implement. Measures to reduce risk can be ruled out only if the sacrifice (in money, time and effort) involved in taking them would be grossly disproportionate to the environmental benefits and/or the risk reduction.

The demonstration that environmental impacts and risk of the activities will be reduced to ALARP is a requirement of the Offshore Petroleum and Greenhouse Gas Storage (Environment) Regulations 2009 (OPGS Environment regulations) and will be included in the EP.

The OPGGS Environment regulations sets out the criteria for acceptance of an environment plan which includes a demonstration that environmental impacts and risks of the activity will be reduced to ALARP. These ALARP positions will be considered by the National Offshore Petroleum Safety and Environmental Management. Authority (NOPSEMA) during the EP assessment process

Will installation activities impact listed species found at the Scarborough field location?

There are no new receptors or impacts identified for activities proposed to be managed under this EP beyond those identified in preparing the Offshore Project Proposal (OPP) for the Scarborough Project. The OPP was submitted to NOPSEMA for assessment and public comment in February 2019 and accepted in March 2020.

Aspects of the Scarborough Project that may impact on threatened species (Seabird and migratory shorebirds, fish, marine mammals and marine reptiles) under the Environment Protection and Biodiversity Conservation Act 1999 (EPBC Act) are provided in Table 6-2 of the OPP. Potential impacts are detailed in Section 7 of the OPP.

Preparation of the EP has also not identified any impacts to listed EPBC species greater than a potential slight, short term impact for proposed activities to be managed under this EP.

What is involved in undertaking the gravimetric survey?

Subsea gravimetric surveys have been used for more than 20 years, mainly in the North Sea, to deliver a field-wide measurement of gravity, enabling the monitoring of reservoir changes over the life of the field.

A baseline survey is proposed to be undertaken as part of activities for this EP and it is proposed that future surveys will collect data to assess changes in the intensity of the Earth's gravity within the Scarborough reservoir.

For Scarborough, up to 265 concrete pads are proposed to be installed on the seabed. The pads are conical-shaped, 1.6 m in diameter, and will be placed approximately 2 km apart, having a cumulative seabed footprint of approximately 500 m².

Following installation of the concrete pads, a baseline gravimetry survey is proposed to be conducted. The survey will involve temporary placement of a passive gravity meter sequentially on each concrete pad, and temporary deployment of tide gauges on the seabed by a survey vessel. Survey equipment will be recovered after the baseline survey is complete.

The concrete pads are designed to ensure that measurements are acquired at the same position on the seabed in consecutive surveys, such that observed time-lapse differences in gravity and water depth can be unambiguously attributed to the effect of hydrocarbon production. These will remain on the seabed until end of field life.

Will the gravimetric survey have an impact on marine fauna, such as whales?

Impacts from the gravimetric survey will be limited to those caused by the presence of vessels executing the scope of work. There are no additional noise, light or pollution impacts beyond those from standard installation/survey vessel and ROV operations.

Woodside is proposing multiple gravimetric surveys for the project. Will there be cumulative impacts from these surveys on marine fauna?

The initial baseline gravimetric survey is covered under this Environment Plan, and future surveys will be assessed as part of future approvals.

Due to the slight, short-term nature of the impacts, and estimated temporal intervals between gravimetric surveys (approximately 3-yearly), there will be no cumulative impacts caused by the gravimetric survey activities.

Are there any marine parks or sensitive marine ecosystems at the Scarborough field?

The are no expected potential impacts to marine parks or sensitive marine ecosystems due to the nature of proposed activities and the distance from environmentally sensitive areas.

The nearest Australian Marine Parks to the Scarborough location are the Gascoyne Marine Park (Cwth), which is -77 km to the south, the Ningaloo Marine Park (Cwth), which is -180 km to the south-south-east, and the Montebello Marine Park (Cwth), which is -201 km to the East.

What is the total level of Greenhouse Gas (GHG) emissions from proposed activities to be managed under the relevant Environment Plan for subsea installation activities and gravimetric surveys? And how is Woodside managing GHG for proposed activities?

For activities included in this EP, GHG emissions will be generated by installation, survey and crew transfer activities and have been estimated to be 70,000 tCO₂e. This estimate is less than <0.001% of total project lifecycle emissions, as described in the OPP Section 7.1.3.2. These emissions have been estimated based on data gathered from previous activities, standard factors and the most up to date planning available. Proposed control measures for GHG emissions developed for this EP include but are not limited to:

- Energy efficiency opportunities to be identified, implemented and tracked by contractors
- Reporting of GHG emissions as required by regulatory requirements

Has Woodside considered the broader impacts of total Greenhouse Gas emissions (direct and indirect) from the Scarborough Project?

The extraction of Scarborough gas for onshore processing is not included in the Petroleum Activities Program for this EP. Therefore, indirect impacts and risks arising from the onshore processing of Scarborough gas are not considered indirect impacts/risks of this Petroleum Activities Program but will be evaluated in relevant Scarborough EPs as appropriate.

The assessment of the broader Scarborough Project, including the contribution to global GHG emissions and the potential impacts of climate change on sensitive receptors within Australian jurisdictions, is described in Section 7.1.3 of the OPP.

Woodside's climate strategy is to reduce our net equity GHG emissions, while investing in the products and services that our customers need as they reduce their emissions. The Climate Report 2021 summarises Woodside's climate-related plans, activities, progress and climate-related data for the period 1 January 2021 to 31 December 2021.

Has Woodside considered the cumulative impacts of this activity, the Scarborough project and other projects in the area or planned for the area.

The Offshore Project Proposal (OPP) assessed the impacts of the Scarborough Project as a whole. Where there is potential for cumulative impacts, these will be considered and addressed within the relevant Environment Plan.

2 WA-61-L and WA-62-L Subsea Infrastructure Installation Environment Plan

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Unplanned activities

What is the extent of the worst-case oil spill?

For planning purposes Woodside has determined an environment that may be affected (EMBA) for activities to be managed under this EP. The EMBA is the extent and area of the worst-case loss of containment scenario for the activity. The risk assessment concluded that the worst-case scenario for this EP is a -1000 m³ marine diesel oil spill, due to vessel collision and associated loss of containment from a fuel tank on a construction vessel. For this EP, a 2000 m³ marine diesel oil spill has been used for the EMBA, as a conservative approach to understanding potential impacts of a spill.

This EMBA is within the bounds of the EMBA presented in the OPP (Section 5.1; Figure 5-1) as the worst-case loss of containment scenario and is considerably smaller than that in the OPP. Therefore, there are no additional location receptors in the EP as compared to the OPP.

What are the potential environmental impacts from a worst-case marine pollution event for these activities?

Activities to be managed under this EP present no significant changes to any environmental impact or risk profiles to those identified in the OPP, with all risks/impacts remaining below the defined level of significant impact (OPP Table 6-3) and equal to or less than the 'impact significance level' or 'risk consequence' in OPP Tables ES01 and ES02.

What are the potential impacts on EPBC Act listed species from a worst-case marine pollution event for these activities?

There are no new receptors and no new impacts identified for proposed activities proposed to be managed under this EP beyond those identified in preparing the OPP.

Preparation of the EP has not identified any impacts to listed EPBC species greater than a potential slight, short term impact for proposed activities to be managed under this EP.

Aspects of the Scarborough Project that may impact on threatened species are provided in Table 6-2 of the OPP. Potential impacts are detailed in the OPP Section 7.

What arrangements are in place for oil spills?

The best response to a marine pollution event is considered to be prevention. Woodside and its contractors have agreed operating procedures and management plans in the unlikely event of an oil spill, to minimise loss of hydrocarbons to the environment.

In the unlikely event of an oil spill, a NOPSEMA approved Oil Pollution Emergency Plan (OPEP) will be in place for all activities to be managed under this EP.

The OPEP supports timely implementation of pre-determined response strategies through defined organisational structures, human and physical resource requirements, and alignment with applicable government and industry oil spill response plans and requirements.

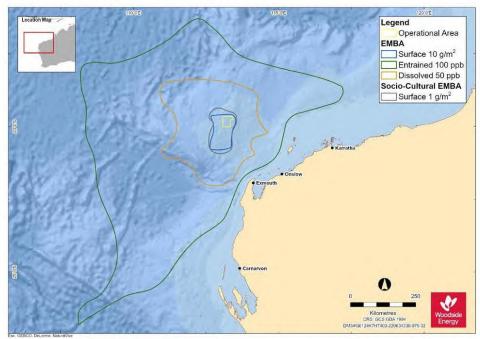


Figure 1: Environment that May Be Affected by the Petroleum Activities Program (based on stochastic modelling which is compiled data from 200 hypothetical spills under different environmental conditions to determine the widest extent of possible oil dispersion)

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¹ The EMBA shown in Figure 1 represents the combined results of multiple separate hypothetical spill events for a worst case marine pollution event and should not be interpreted as reflecting a single marine pollution event.

1.2 Email sent to Australian Border Force (ABF) (21 September 2022)

Dear Australian Border Force

Woodside is planning to submit an Environment Plan (EP) for Scarborough subsea infrastructure installation and survey activities located in Permit Areas WA-61-L and WA-62-L in Commonwealth waters, about 374 km west-northwest of Dampier, Western Australia.

The proposed EP activities will include visual and gravimetric surveys, plus installation of flowlines, umbilicals, risers, mooring legs, concrete pads and ancillary infrastructure, required for the flow and control of hydrocarbons to the Scarborough Floating Processing Unit. Proposed activities are planned to commence in the second half of 2023 and be undertaken in multiple campaigns, with an expected total duration of 18 months.

A Consultation Information Sheet is attached, which provides background on the proposed activity, including a summary of potential key risks and associated management measures. The Information Sheet is available on our website.

An FAQ fact sheet is also attached, which provides additional information on proposed activities relevant to stakeholder feedback we have received for previous consultation activities.

The WA-61-L and WA-62-L Subsea Infrastructure Installation EP falls under the primary environmental approval of the Scarborough Offshore Project Proposal (OPP) and will be conducted in line with relevant requirements of the OPP. This EP is the third of four Commonwealth EPs proposed for the Scarborough development.

More information on the Scarborough development can be found here .

Please provide your views by 21 October 2021.

Activity:

Summary: Seabed site surveys and installation of subsea production infrastructure required

to support future production from the Scarborough Field.

Location: 244 km north-northwest of Exmouth, 374 km west-northwest of Dampier.

Approx. Water Depth (m): ~ 900 m - 1000 m.

Schedule: H2 2023 pending approvals, vessel availability and weather constraints.

Duration: Approximately 18 months (cumulative) for the survey and installation activities.

When underway, activities will be conducted 24 hours per day, seven days per

week.

Exclusionary/Cautionary Zone: The Operational Area for gravimetry activities includes a radius of:

• 1000 m around location of the outermost concrete pads.

• 1500 m around location of subsea infrastructure.

• 2000 m around future location of FPU.

A temporary 500 m exclusion zone will be in place around vessels to

manage vessel movements.

Marine notices will be issued prior to activity commencement to alert vessels which

may be operating in waters nearby.

Vessels: Proposed survey and installation activities will be performed by up to

four dedicated and specialised dynamically positioned activity and

support vessels.

Feedback:

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If you have any issues or concerns with these activities, any other issues relevant to this location then please respond to Woodside at Feedback@woodside.com.au or 1800 442 977.

Your feedback and our response will be included in our Environment Plan which will be submitted to the National Offshore Petroleum Safety and Environmental Management Authority (NOPSEMA) for acceptance in accordance with the Offshore Petroleum and Greenhouse Gas Storage (Environment) Regulations 2009 (Cth).

Please let us know if your feedback for this activity is sensitive and we will make this known to NOPSEMA upon submission of the EP in order for this information to remain confidential to NOPSEMA.

Please provide your views by 21 October 2021.

Regards,

Woodside Feedback

1.3 Email sent to ABF (21 September 2022)

Dear Australian Border Force

Please be advised that there was an error in the Consultation Information Sheet previously sent, specifically the distances from the Scarborough location to Australian Marine Parks.

This error has been corrected an updated Information Sheet is attached for reference.

Regards,

Woodside Feedback

1.4 Email sent to Australian Fisheries Management Authority (AFMA) (21 September 2022)

Dear AFMA

Woodside is planning to submit an Environment Plan (EP) for Scarborough subsea infrastructure installation and survey activities located in Permit Areas WA-61-L and WA-62-L in Commonwealth waters, about 374 km west-northwest of Dampier, Western Australia.

The proposed EP activities will include visual and gravimetric surveys, plus installation of flowlines, umbilicals, risers, mooring legs, concrete pads and ancillary infrastructure, required for the flow and control of hydrocarbons to the Scarborough Floating Processing Unit. Proposed activities are planned to commence in the second half of 2023 and be undertaken in multiple campaigns, with an expected total duration of 18 months.

A Consultation Information Sheet is attached, which provides background on the proposed activity, including a summary of potential key risks and associated management measures. The Information Sheet is available on our <u>website</u>.

An FAQ fact sheet is also attached, which provides additional information on proposed activities relevant to stakeholder feedback we have received for previous consultation activities.

We have identified potential impacts to commercial fishers and the environment and have endeavoured to reduce these risks to as low as reasonably practicable. Fisheries have been identified as being relevant based on fishing area overlap with the activity area, assessment of government fishing effort data from recent years, fishing methods and water depth.

The Western Deepwater Trawl Fishery has been identified as the only fishery relevant to the proposed activities outlined in the EP. A map of the fishery showing the activity location is attached for reference.

The WA-61-L and WA-62-L Subsea Infrastructure Installation EP falls under the primary environmental approval of the Scarborough Offshore Project Proposal (OPP) and will be conducted in line with relevant requirements of the OPP. This EP is the third of four Commonwealth EPs proposed for the Scarborough development.

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More information on the Scarborough development can be found here .

Please provide your views by 21 October 2021.

Activity:

Summary: Seabed site surveys and installation of subsea production infrastructure required

to support future production from the Scarborough Field.

Location: 244 km north-northwest of Exmouth, 374 km west-northwest of Dampier.

Approx. Water Depth (m): ~ 900 m – 1000 m.

Schedule: H2 2023 pending approvals, vessel availability and weather constraints.

Duration: Approximately 18 months (cumulative) for the survey and installation activities.

When underway, activities will be conducted 24 hours per day, seven days per

week.

Exclusionary/Cautionary Zone: The Operational Area for gravimetry activities includes a radius of:

• 1000 m around location of the outermost concrete pads.

• 1500 m around location of subsea infrastructure.

• 2000 m around future location of FPU.

A temporary 500 m exclusion zone will be in place around vessels to

manage vessel movements.

Marine notices will be issued prior to activity commencement to alert vessels which

may be operating in waters nearby.

Vessels: Proposed survey and installation activities will be performed by up to

four dedicated and specialised dynamically positioned activity and

support vessels.

Feedback:

If you have any issues or concerns with these activities, any other issues relevant to this location then please respond to Woodside at Feedback@woodside.com.au or 1800 442 977.

Your feedback and our response will be included in our Environment Plan which will be submitted to the National Offshore Petroleum Safety and Environmental Management Authority (NOPSEMA) for acceptance in accordance with the Offshore Petroleum and Greenhouse Gas Storage (Environment) Regulations 2009 (Cth).

Please let us know if your feedback for this activity is sensitive and we will make this known to NOPSEMA upon submission of the EP in order for this information to remain confidential to NOPSEMA.

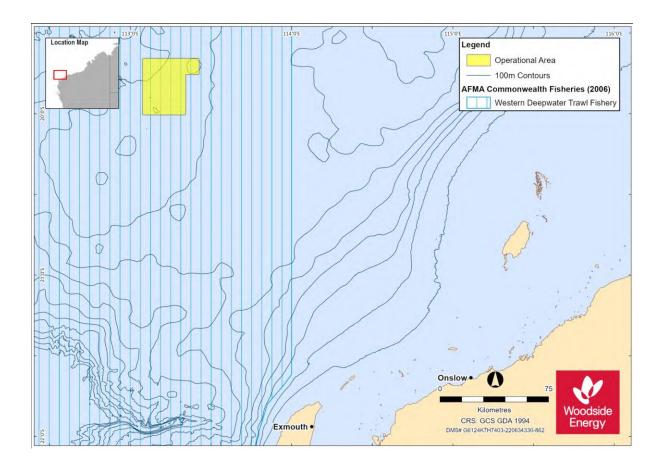
Please provide your views by 21 October 2021.

Regards,

Woodside Feedback

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1.5 Email sent to Australian Hydrographic Service (AHO) and Australian Maritime Safety Authority (AMSA) – Marine Safety (21 September 2022)

Dear AHO and AMSA

Woodside is planning to submit an Environment Plan (EP) for Scarborough subsea infrastructure installation and survey activities located in Permit Areas WA-61-L and WA-62-L in Commonwealth waters, about 374 km west-northwest of Dampier, Western Australia.

The proposed EP activities will include ual and gravimetric surveys, plus installation of flowlines, umbilicals, risers, mooring legs, concrete pads and ancillary infrastructure, required for the flow and control of hydrocarbons to the Scarborough Floating Processing Unit. Proposed activities are planned to commence in the second half of 2023 and be undertaken in multiple campaigns, with an expected total duration of 18 months.

A Consultation Information Sheet is attached, which provides background on the proposed activity, including a summary of potential key risks and associated management measures. The Information Sheet is available on our website and a shipping lanes map is also attached.

An FAQ fact sheet is also attached, which provides additional information on proposed activities relevant to stakeholder feedback we have received for previous consultation activities.

The WA-61-L and WA-62-L Subsea Infrastructure Installation EP falls under the primary environmental approval of the Scarborough Offshore Project Proposal (OPP) and will be conducted in line with relevant requirements of the OPP. This EP is the third of four Commonwealth EPs proposed for the Scarborough development.

More information on the Scarborough development can be found here .

Please provide your views by 21 October 2021.

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Activity:

Summary: Seabed site surveys and installation of subsea production infrastructure

required to support future production from the Scarborough Field.

Location: 244 km north-northwest of Exmouth, 374 km west-northwest of Dampier.

Approx. Water Depth (m): ~ 900 m - 1000 m.

Schedule: H2 2023 pending approvals, vessel availability and weather constraints.

Duration: Approximately 18 months (cumulative) for the survey and installation

activities. When underway, activities will be conducted 24 hours per day,

seven days per week.

Exclusionary/Cautionary Zone: The Operational Area for gravimetry activities includes a radius of:

• 1000 m around location of the outermost concrete pads.

• 1500 m around location of subsea infrastructure.

• 2000 m around future location of FPU.

A temporary 500 m exclusion zone will be in place around vessels to

manage vessel movements.

Marine notices will be issued prior to activity commencement to alert

vessels which may be operating in waters nearby.

Vessels: Proposed survey and installation activities will be performed by up to

four dedicated and specialised dynamically positioned activity and

support vessels.

Feedback:

If you have any issues or concerns with these activities, any other issues relevant to this location then please respond to Woodside at Feedback@woodside.com.au or 1800 442 977.

Your feedback and our response will be included in our Environment Plan which will be submitted to the National Offshore Petroleum Safety and Environmental Management Authority (NOPSEMA) for acceptance in accordance with the Offshore Petroleum and Greenhouse Gas Storage (Environment) Regulations 2009 (Cth).

Please let us know if your feedback for this activity is sensitive and we will make this known to NOPSEMA upon submission of the EP in order for this information to remain confidential to NOPSEMA.

Please provide your views by 21 October 2021.

Regards,

Woodside Feedback

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1.6 Shipping lanes map sent to AHO and AMSA – Marine Safety (21 September 2022)



1.7 Email sent to AMSA – Marine Pollution (21 September 2022)

Dear

Woodside is planning to submit an Environment Plan (EP) for Scarborough subsea infrastructure installation and survey activities located in Permit Areas WA-61-L and WA-62-L in Commonwealth waters, about 374 km west-northwest of Dampier, Western Australia.

The proposed EP activities will include visual and gravimetric surveys, plus installation of flowlines, umbilicals, risers, mooring legs, concrete pads and ancillary infrastructure, required for the flow and control of hydrocarbons to the Scarborough Floating Processing Unit. Proposed activities are planned to commence in the second half of 2023 and be undertaken in multiple campaigns, with an expected total duration of 18 months.

A Consultation Information Sheet is attached, which provides background on the proposed activity, including a summary of potential key risks and associated management measures. The Information Sheet is available on our <u>website</u>.

An FAQ fact sheet is also attached, which provides additional information on proposed activities relevant to stakeholder feedback we have received for previous consultation activities.

A copy of the Oil Pollution First Strike Plan will be sent to you for comment and feedback from our oil spill team.

The WA-61-L and WA-62-L Subsea Infrastructure Installation EP falls under the primary environmental approval of the Scarborough Offshore Project Proposal (OPP) and will be conducted in line with relevant requirements of the OPP. This EP is the third of four Commonwealth EPs proposed for the Scarborough development.

More information on the Scarborough development can be found here .

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Please provide your views by 21 October 2021.

Activity:

Summary: Seabed site surveys and installation of subsea production infrastructure required

to support future production from the Scarborough Field.

Location: 244 km north-northwest of Exmouth, 374 km west-northwest of Dampier.

Approx. Water Depth (m): ~ 900 m – 1000 m.

Schedule: H2 2023 pending approvals, vessel availability and weather constraints.

Duration: Approximately 18 months (cumulative) for the survey and installation activities.

When underway, activities will be conducted 24 hours per day, seven days per

week.

Exclusionary/Cautionary Zone: The Operational Area for gravimetry activities includes a radius of:

• 1000 m around location of the outermost concrete pads.

• 1500 m around location of subsea infrastructure.

• 2000 m around future location of FPU.

A temporary 500 m exclusion zone will be in place around vessels to

manage vessel movements.

Marine notices will be issued prior to activity commencement to alert vessels which

may be operating in waters nearby.

Vessels: Proposed survey and installation activities will be performed by up to

four dedicated and specialised dynamically positioned activity and

support vessels.

Feedback:

If you have any issues or concerns with these activities, any other issues relevant to this location then please respond to Woodside at Feedback@woodside.com.au or 1800 442 977.

Your feedback and our response will be included in our Environment Plan which will be submitted to the National Offshore Petroleum Safety and Environmental Management Authority (NOPSEMA) for acceptance in accordance with the Offshore Petroleum and Greenhouse Gas Storage (Environment) Regulations 2009 (Cth).

Please let us know if your feedback for this activity is sensitive and we will make this known to NOPSEMA upon submission of the EP in order for this information to remain confidential to NOPSEMA.

Please provide your views by 21 October 2021.

Regards,

Woodside Feedback

1.8 Email sent to Australian Institute of Marine Science AIMS (21 September 2022)

Dear

Woodside is planning to submit an Environment Plan (EP) for Scarborough subsea infrastructure installation and survey activities located in Permit Areas WA-61-L and WA-62-L in Commonwealth waters, about 374 km west-northwest of Dampier, Western Australia.

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The proposed EP activities will include visual and gravimetric surveys, plus installation of flowlines, umbilicals, risers, mooring legs, concrete pads and ancillary infrastructure, required for the flow and control of hydrocarbons to the Scarborough Floating Processing Unit. Proposed activities are planned to commence in the second half of 2023 and be undertaken in multiple campaigns, with an expected total duration of 18 months.

A Consultation Information Sheet is attached, which provides background on the proposed activity, including a summary of potential key risks and associated management measures. The Information Sheet is available on our website.

An FAQ fact sheet is also attached, which provides additional information on proposed activities relevant to stakeholder feedback we have received for previous consultation activities.

The WA-61-L and WA-62-L Subsea Infrastructure Installation EP falls under the primary environmental approval of the Scarborough Offshore Project Proposal (OPP) and will be conducted in line with relevant requirements of the OPP. This EP is the third of four Commonwealth EPs proposed for the Scarborough development.

More information on the Scarborough development can be found here .

Please provide your views by 21 October 2021.

Activity:

Summary: Seabed site surveys and installation of subsea production infrastructure required

to support future production from the Scarborough Field.

Location: 244 km north-northwest of Exmouth, 374 km west-northwest of Dampier.

Approx. Water Depth (m): ~ 900 m – 1000 m.

Schedule: H2 2023 pending approvals, vessel availability and weather constraints.

Duration: Approximately 18 months (cumulative) for the survey and installation activities.

When underway, activities will be conducted 24 hours per day, seven days per

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Exclusionary/Cautionary Zone: The Operational Area for gravimetry activities includes a radius of:

• 1000 m around location of the outermost concrete pads.

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A temporary 500 m exclusion zone will be in place around vessels to manage vessel movements.

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Vessels: Proposed survey and installation activities will be performed by up to

four dedicated and specialised dynamically positioned activity and

support vessels.

Feedback:

If you have any issues or concerns with these activities, any other issues relevant to this location then please respond to Woodside at Feedback@woodside.com.au or 1800 442 977.

Your feedback and our response will be included in our Environment Plan which will be submitted to the National Offshore Petroleum Safety and Environmental Management Authority (NOPSEMA) for acceptance in accordance with the Offshore Petroleum and Greenhouse Gas Storage (Environment) Regulations 2009 (Cth).

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Please let us know if your feedback for this activity is sensitive and we will make this known to NOPSEMA upon submission of the EP in order for this information to remain confidential to NOPSEMA.

Please provide your views by 21 October 2021.

Regards,

Woodside Feedback

1.9 Email sent to Department of Defence DoD (21 September 2022)

Dear Department of Defence

Woodside is planning to submit an Environment Plan (EP) for Scarborough subsea infrastructure installation and survey activities located in Permit Areas WA-61-L and WA-62-L in Commonwealth waters, about 374 km west-northwest of Dampier, Western Australia.

The proposed EP activities will include visual and gravimetric surveys, plus installation of flowlines, umbilicals, risers, mooring legs, concrete pads and ancillary infrastructure, required for the flow and control of hydrocarbons to the Scarborough Floating Processing Unit. Proposed activities are planned to commence in the second half of 2023 and be undertaken in multiple campaigns, with an expected total duration of 18 months.

A Consultation Information Sheet is attached, which provides background on the proposed activity, including a summary of potential key risks and associated management measures. The Information Sheet is available on our website.

An FAQ fact sheet is also attached, which provides additional information on proposed activities relevant to stakeholder feedback we have received for previous consultation activities.

The WA-61-L and WA-62-L Subsea Infrastructure Installation EP falls under the primary environmental approval of the Scarborough Offshore Project Proposal (OPP) and will be conducted in line with relevant requirements of the OPP. This EP is the third of four Commonwealth EPs proposed for the Scarborough development.

More information on the Scarborough development can be found $\underline{\text{here}}$.

Please provide your views by 21 October 2021.

Activity:

Summary: Seabed site surveys and installation of subsea production infrastructure required

to support future production from the Scarborough Field.

Location: 244 km north-northwest of Exmouth, 374 km west-northwest of Dampier.

Approx. Water Depth (m): ~ 900 m – 1000 m.

Schedule: H2 2023 pending approvals, vessel availability and weather constraints.

Duration: Approximately 18 months (cumulative) for the survey and installation activities.

When underway, activities will be conducted 24 hours per day, seven days per

week.

Exclusionary/Cautionary Zone: The Operational Area for gravimetry activities includes a radius of:

• 1000 m around location of the outermost concrete pads.

• 1500 m around location of subsea infrastructure.

• 2000 m around future location of FPU.

A temporary 500 m exclusion zone will be in place around vessels to

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manage vessel movements.

Marine notices will be issued prior to activity commencement to alert vessels which

may be operating in waters nearby.

Vessels: Proposed survey and installation activities will be performed by up to

four dedicated and specialised dynamically positioned activity and

support vessels.

Feedback:

If you have any issues or concerns with these activities, any other issues relevant to this location then please respond to Woodside at Feedback@woodside.com.au or 1800 442 977.

Your feedback and our response will be included in our Environment Plan which will be submitted to the National Offshore Petroleum Safety and Environmental Management Authority (NOPSEMA) for acceptance in accordance with the Offshore Petroleum and Greenhouse Gas Storage (Environment) Regulations 2009 (Cth).

Please let us know if your feedback for this activity is sensitive and we will make this known to NOPSEMA upon submission of the EP in order for this information to remain confidential to NOPSEMA.

Please provide your views by 21 October 2021.

Regards,

1.10 Email sent to DoD (21 September 2022)

Dear Defence

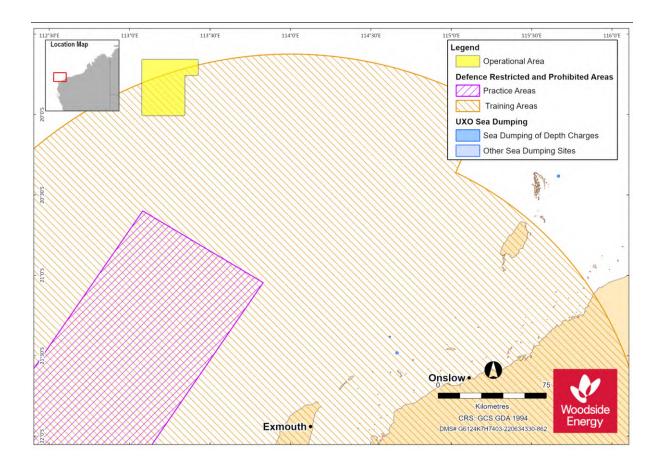
Apologies for omotting the attached Defence map from our ealier email.

Regards

Woodside Feedback

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1.11 Email sent to Department of Industry, Science and Resources (DISR) (formerly DISER) (21 September 2022)

Dear DISER

Woodside is planning to submit an Environment Plan (EP) for Scarborough subsea infrastructure installation and survey activities located in Permit Areas WA-61-L and WA-62-L in Commonwealth waters, about 374 km west-northwest of Dampier, Western Australia.

The proposed EP activities will include visual and gravimetric surveys, plus installation of flowlines, umbilicals, risers, mooring legs, concrete pads and ancillary infrastructure, required for the flow and control of hydrocarbons to the Scarborough Floating Processing Unit. Proposed activities are planned to commence in the second half of 2023 and be undertaken in multiple campaigns, with an expected total duration of 18 months.

A Consultation Information Sheet is attached, which provides background on the proposed activity, including a summary of potential key risks and associated management measures. The Information Sheet is available on our website.

An FAQ fact sheet is also attached, which provides additional information on proposed activities relevant to stakeholder feedback we have received for previous consultation activities.

The WA-61-L and WA-62-L Subsea Infrastructure Installation EP falls under the primary environmental approval of the Scarborough Offshore Project Proposal (OPP) and will be conducted in line with relevant requirements of the OPP. This EP is the third of four Commonwealth EPs proposed for the Scarborough development.

More information on the Scarborough development can be found here .

Please provide your views by 21 October 2021.

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Activity:

Summary: Seabed site surveys and installation of subsea production infrastructure required

to support future production from the Scarborough Field.

Location: 244 km north-northwest of Exmouth, 374 km west-northwest of Dampier.

Approx. Water Depth (m): $\sim 900 \text{ m} - 1000 \text{ m}$.

Schedule: H2 2023 pending approvals, vessel availability and weather constraints.

Duration: Approximately 18 months (cumulative) for the survey and installation activities.

When underway, activities will be conducted 24 hours per day, seven days per

week.

Exclusionary/Cautionary Zone: The Operational Area for gravimetry activities includes a radius of:

• 1000 m around location of the outermost concrete pads.

1500 m around location of subsea infrastructure.

• 2000 m around future location of FPU.

A temporary 500 m exclusion zone will be in place around vessels to

manage vessel movements.

Marine notices will be issued prior to activity commencement to alert vessels which

may be operating in waters nearby.

Vessels: Proposed survey and installation activities will be performed by up to

four dedicated and specialised dynamically positioned activity and

support vessels.

Feedback:

If you have any issues or concerns with these activities, any other issues relevant to this location then please respond to Woodside at Feedback@woodside.com.au or 1800 442 977.

Your feedback and our response will be included in our Environment Plan which will be submitted to the National Offshore Petroleum Safety and Environmental Management Authority (NOPSEMA) for acceptance in accordance with the Offshore Petroleum and Greenhouse Gas Storage (Environment) Regulations 2009 (Cth).

Please let us know if your feedback for this activity is sensitive and we will make this known to NOPSEMA upon submission of the EP in order for this information to remain confidential to NOPSEMA.

Please provide your views by 21 October 2021.

Regards,

Woodside Feedback

1.12 Email sent to Director of National Parks (DNP) (21 September 2022)

Dear Director of National Parks

Woodside is planning to submit an Environment Plan (EP) for Scarborough subsea infrastructure installation and survey activities located in Permit Areas WA-61-L and WA-62-L in Commonwealth waters, about 374 km west-northwest of Dampier, Western Australia.

The proposed EP activities will include visual and gravimetric surveys, plus installation of flowlines, umbilicals, risers, mooring legs, concrete pads and ancillary infrastructure, required for the flow and control of hydrocarbons

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to the Scarborough Floating Processing Unit. Proposed activities are planned to commence in the second half of 2023 and be undertaken in multiple campaigns, with an expected total duration of 18 months.

A Consultation Information Sheet is attached, which provides background on the proposed activity, including a summary of potential key risks and associated management measures. The Information Sheet is available on our website.

An FAQ fact sheet is also attached, which provides additional information on proposed activities relevant to stakeholder feedback we have received for previous consultation activities.

The WA-61-L and WA-62-L Subsea Infrastructure Installation EP falls under the primary environmental approval of the Scarborough Offshore Project Proposal (OPP) and will be conducted in line with relevant requirements of the OPP. This EP is the third of four Commonwealth EPs proposed for the Scarborough development.

More information on the Scarborough development can be found here .

Please provide your views by 21 October 2021.

Activity:

Summary: Seabed site surveys and installation of subsea production infrastructure required

to support future production from the Scarborough Field.

Location: 244 km north-northwest of Exmouth, 374 km west-northwest of Dampier.

Approx. Water Depth (m): ~ 900 m – 1000 m.

Schedule: H2 2023 pending approvals, vessel availability and weather constraints.

Duration: Approximately 18 months (cumulative) for the survey and installation activities.

When underway, activities will be conducted 24 hours per day, seven days per

week.

Exclusionary/Cautionary Zone: The Operational Area for gravimetry activities includes a radius of:

• 1000 m around location of the outermost concrete pads.

· 1500 m around location of subsea infrastructure.

• 2000 m around future location of FPU.

A temporary 500 m exclusion zone will be in place around vessels to manage vessel movements.

Marine notices will be issued prior to activity commencement to alert vessels which may be operating in waters nearby.

Vessels: Proposed survey and installation activities will be performed by up to

four dedicated and specialised dynamically positioned activity and

support vessels.

Feedback:

If you have any issues or concerns with these activities, any other issues relevant to this location then please respond to Woodside at Feedback@woodside.com.au or 1800 442 977.

Your feedback and our response will be included in our Environment Plan which will be submitted to the National Offshore Petroleum Safety and Environmental Management Authority (NOPSEMA) for acceptance in accordance with the Offshore Petroleum and Greenhouse Gas Storage (Environment) Regulations 2009 (Cth).

Please let us know if your feedback for this activity is sensitive and we will make this known to NOPSEMA upon submission of the EP in order for this information to remain confidential to NOPSEMA.

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Please provide your views by 21 October 2021.

Regards,

Woodside Feedback

1.13 Email sent to Department of Department of Climate Change, Energy, the Environment and Water Agriculture (DCCEEW) / Department of Agriculture, Fisheries and Forestry (DAFF) – Fisheries (formerly DAWE) (21 September 2022)

Dear DAFF

Woodside is planning to submit an Environment Plan (EP) for Scarborough subsea infrastructure installation and survey activities located in Permit Areas WA-61-L and WA-62-L in Commonwealth waters, about 374 km west-northwest of Dampier, Western Australia.

The proposed EP activities will include visual and gravimetric surveys, plus installation of flowlines, umbilicals, risers, mooring legs, concrete pads and ancillary infrastructure, required for the flow and control of hydrocarbons to the Scarborough Floating Processing Unit. Proposed activities are planned to commence in the second half of 2023 and be undertaken in multiple campaigns, with an expected total duration of 18 months.

A Consultation Information Sheet is attached, which provides background on the proposed activity, including a summary of potential key risks and associated management measures. The Information Sheet is available on our website.

An FAQ fact sheet is also attached, which provides additional information on proposed activities relevant to stakeholder feedback we have received for previous consultation activities.

We have identified potential impacts to commercial fishers and the environment and have endeavoured to reduce these risks to as low as reasonably practicable. Fisheries have been identified as being relevant based on fishing area overlap with the activity area, assessment of government fishing effort data from recent years, fishing methods and water depth.

The Western Deepwater Trawl Fishery has been identified as the only fishery relevant to the proposed activities outlined in the EP. A map of the fishery showing the activity location is attached for reference.

The WA-61-L and WA-62-L Subsea Infrastructure Installation EP falls under the primary environmental approval of the Scarborough Offshore Project Proposal (OPP) and will be conducted in line with relevant requirements of the OPP. This EP is the third of four Commonwealth EPs proposed for the Scarborough development.

More information on the Scarborough development can be found here .

Please provide your views by 21 October 2021.

Activity:

Summary: Seabed site surveys and installation of subsea production infrastructure required

to support future production from the Scarborough Field.

Location: 244 km north-northwest of Exmouth, 374 km west-northwest of Dampier.

Approx. Water Depth (m): ~ 900 m – 1000 m.

Schedule: H2 2023 pending approvals, vessel availability and weather constraints.

Duration: Approximately 18 months (cumulative) for the survey and installation activities.

When underway, activities will be conducted 24 hours per day, seven days per

week.

Exclusionary/Cautionary Zone: The Operational Area for gravimetry activities includes a radius of:

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- 1000 m around location of the outermost concrete pads.
- 1500 m around location of subsea infrastructure.
- 2000 m around future location of FPU.

A temporary 500 m exclusion zone will be in place around vessels to manage vessel movements.

Marine notices will be issued prior to activity commencement to alert vessels which may be operating in waters nearby.

Proposed survey and installation activities will be performed by up to four dedicated and specialised dynamically positioned activity and support vessels.

Feedback:

Vessels:

If you have any issues or concerns with these activities, any other issues relevant to this location then please respond to Woodside at Feedback@woodside.com.au or 1800 442 977.

Your feedback and our response will be included in our Environment Plan which will be submitted to the National Offshore Petroleum Safety and Environmental Management Authority (NOPSEMA) for acceptance in accordance with the Offshore Petroleum and Greenhouse Gas Storage (Environment) Regulations 2009 (Cth).

Please let us know if your feedback for this activity is sensitive and we will make this known to NOPSEMA upon submission of the EP in order for this information to remain confidential to NOPSEMA.

Please provide your views by 21 October 2021.

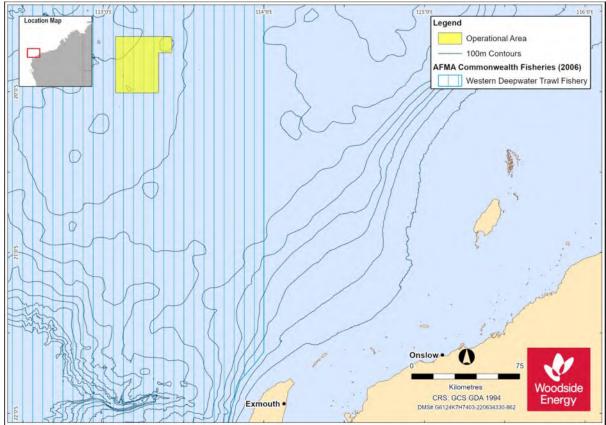
Regards,

Woodside Feedback

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1.14 Fisheries Map sent to DCCEEW/DAFF (21 September 2022)



1.15 Email sent to Department of Primary Industries and Regional Development (DPIRD) (21 September 2022)

Dear

Woodside is planning to submit an Environment Plan (EP) for Scarborough subsea infrastructure installation and survey activities located in Permit Areas WA-61-L and WA-62-L in Commonwealth waters, about 374 km west-northwest of Dampier, Western Australia.

The proposed EP activities will include visual and gravimetric surveys, plus installation of flowlines, umbilicals, risers, mooring legs, concrete pads and ancillary infrastructure, required for the flow and control of hydrocarbons to the Scarborough Floating Processing Unit. Proposed activities are planned to commence in the second half of 2023 and be undertaken in multiple campaigns, with an expected total duration of 18 months.

A Consultation Information Sheet is attached, which provides background on the proposed activity, including a summary of potential key risks and associated management measures. The Information Sheet is available on our website.

An FAQ fact sheet is also attached, which provides additional information on proposed activities relevant to stakeholder feedback we have received for previous consultation activities.

We have identified potential impacts to commercial fishers and the environment and have endeavoured to reduce these risks to as low as reasonably practicable. Fisheries have been identified as being relevant based on fishing area overlap with the activity area, assessment of government fishing effort data from recent years, fishing methods and water depth.

The Western Deepwater Trawl Fishery has been identified as the only fishery relevant to the proposed activities outlined in the EP. A map of the fishery showing the activity location is attached for reference.

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The WA-61-L and WA-62-L Subsea Infrastructure Installation EP falls under the primary environmental approval of the Scarborough Offshore Project Proposal (OPP) and will be conducted in line with relevant requirements of the OPP. This EP is the third of four Commonwealth EPs proposed for the Scarborough development.

More information on the Scarborough development can be found here .

Please provide your views by 21 October 2021.

Activity:

Summary: Seabed site surveys and installation of subsea production infrastructure required

to support future production from the Scarborough Field.

Location: 244 km north-northwest of Exmouth, 374 km west-northwest of Dampier.

Approx. Water Depth (m): ~ 900 m – 1000 m.

Schedule: H2 2023 pending approvals, vessel availability and weather constraints.

Duration: Approximately 18 months (cumulative) for the survey and installation activities.

When underway, activities will be conducted 24 hours per day, seven days per

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Exclusionary/Cautionary Zone: The Operational Area for gravimetry activities includes a radius of:

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Feedback:

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Please let us know if your feedback for this activity is sensitive and we will make this known to NOPSEMA upon submission of the EP in order for this information to remain confidential to NOPSEMA.

Please provide your views by 21 October 2021.

Regards,

Woodside Feedback

1.16 Email sent to Department of Mines, Industry Regulation and Safety (DMIRS) (21 September 2022) Dear DMIRS

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Woodside is planning to submit an Environment Plan (EP) for Scarborough subsea infrastructure installation and survey activities located in Permit Areas WA-61-L and WA-62-L in Commonwealth waters, about 374 km west-northwest of Dampier, Western Australia.

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Regards,

Woodside Feedback

1.17 Email sent to Department of Transport DoT (21 September 2022)

Dear DoT

Woodside is planning to submit an Environment Plan (EP) for Scarborough subsea infrastructure installation and survey activities located in Permit Areas WA-61-L and WA-62-L in Commonwealth waters, about 374 km west-northwest of Dampier, Western Australia.

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A copy of the Oil Pollution First Strike Plan will be sent to you for comment and feedback from our oil spill team.

The WA-61-L and WA-62-L Subsea Infrastructure Installation EP falls under the primary environmental approval of the Scarborough Offshore Project Proposal (OPP) and will be conducted in line with relevant requirements of the OPP. This EP is the third of four Commonwealth EPs proposed for the Scarborough development.

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Regards,

Woodside Feedback

1.18 Email sent to Recfishwest (21 September 2022)

Dear

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Summary: Seabed site surveys and installation of subsea production infrastructure required

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Location: 244 km north-northwest of Exmouth, 374 km west-northwest of Dampier.

Approx. Water Depth (m): ~ 900 m – 1000 m.

Schedule: H2 2023 pending approvals, vessel availability and weather constraints.

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Regards,

Woodside Feedback

1.19 Email sent to WA Game Fishing Association (WAGFA) (21 September 2022)

Dear WAGFA

Woodside is planning to submit an Environment Plan (EP) for Scarborough subsea infrastructure installation and survey activities located in Permit Areas WA-61-L and WA-62-L in Commonwealth waters, about 374 km west-northwest of Dampier, Western Australia.

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A Consultation Information Sheet is attached, which provides background on the proposed activity, including a summary of potential key risks and associated management measures. The Information Sheet is available on our website.

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The WA-61-L and WA-62-L Subsea Infrastructure Installation EP falls under the primary environmental approval of the Scarborough Offshore Project Proposal (OPP) and will be conducted in line with relevant requirements of the OPP. This EP is the third of four Commonwealth EPs proposed for the Scarborough development.

More information on the Scarborough development can be found here .

Please provide your views by 21 October 2021.

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Location: 244 km north-northwest of Exmouth, 374 km west-northwest of Dampier.

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Schedule: H2 2023 pending approvals, vessel availability and weather constraints.

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Regards,

Woodside Feedback

1.20 Email sent to Department of Biodiversity, Conservation and Attractions (DBCA) (21 September 2022)

Dear DBCA

Woodside is planning to submit an Environment Plan (EP) for Scarborough subsea infrastructure installation and survey activities located in Permit Areas WA-61-L and WA-62-L in Commonwealth waters, about 374 km westnorthwest of Dampier, Western Australia.

The proposed EP activities will include visual and gravimetric surveys, plus installation of flowlines, umbilicals. risers, mooring legs, concrete pads and ancillary infrastructure, required for the flow and control of hydrocarbons to the Scarborough Floating Processing Unit. Proposed activities are planned to commence in the second half of 2023 and be undertaken in multiple campaigns, with an expected total duration of 18 months.

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Activity:

Seabed site surveys and installation of subsea production infrastructure required Summary:

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four dedicated and specialised dynamically positioned activity and support vessels.

Feedback:

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Regards,

Woodside Feedback

1.21 Email sent to Pearl Producers Australia (21 September 2022)

Dear

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Regards,

Woodside Feedback

1.22 Email sent to Marine Tourism WA - 21 September 2022

Dear Marine Tourism WA

Woodside is planning to submit an Environment Plan (EP) for Scarborough subsea infrastructure installation and survey activities located in Permit Areas WA-61-L and WA-62-L in Commonwealth waters, about 374 km west-northwest of Dampier, Western Australia.

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More information on the Scarborough development can be found here .

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Regards,

Woodside Feedback

Email sent to Australian Southern Bluefin Tuna Industry Association (ASBTIA) – September 2022

Dear ASBTIA

Woodside is planning to submit an Environment Plan (EP) for Scarborough subsea infrastructure installation and

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survey activities located in Permit Areas WA-61-L and WA-62-L in Commonwealth waters, about 374 km west-northwest of Dampier, Western Australia.

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Activity:

Summary: Seabed site surveys and installation of subsea production infrastructure required

to support future production from the Scarborough Field.

Location: 244 km north-northwest of Exmouth, 374 km west-northwest of Dampier.

Approx. Water Depth (m): ~ 900 m - 1000 m.

Schedule: H2 2023 pending approvals, vessel availability and weather constraints.

Duration: Approximately 18 months (cumulative) for the survey and installation activities.

When underway, activities will be conducted 24 hours per day, seven days per

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Exclusionary/Cautionary Zone: The Operational Area for gravimetry activities includes a radius of:

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Marine notices will be issued prior to activity commencement to alert vessels which may be operating in waters nearby.

Vessels: Proposed survey and installation activities will be performed by up to

four dedicated and specialised dynamically positioned activity and

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support vessels.

Feedback:

If you have any issues or concerns with these activities, any other issues relevant to this location then please respond to Woodside at Feedback@woodside.com.au or 1800 442 977.

Your feedback and our response will be included in our Environment Plan which will be submitted to the National Offshore Petroleum Safety and Environmental Management Authority (NOPSEMA) for acceptance in accordance with the Offshore Petroleum and Greenhouse Gas Storage (Environment) Regulations 2009 (Cth).

Please let us know if your feedback for this activity is sensitive and we will make this known to NOPSEMA upon submission of the EP in order for this information to remain confidential to NOPSEMA.

Please provide your views by 21 October 2021.

Regards, Woodside Feedback

1.24 Email sent to Commonwealth Fisheries Association (CFA) - 21 September 2022

Dear CFA

Woodside is planning to submit an Environment Plan (EP) for Scarborough subsea infrastructure installation and survey activities located in Permit Areas WA-61-L and WA-62-L in Commonwealth waters, about 374 km west-northwest of Dampier, Western Australia.

The proposed EP activities will include visual and gravimetric surveys, plus installation of flowlines, umbilicals, risers, mooring legs, concrete pads and ancillary infrastructure, required for the flow and control of hydrocarbons to the Scarborough Floating Processing Unit. Proposed activities are planned to commence in the second half of 2023 and be undertaken in multiple campaigns, with an expected total duration of 18 months.

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An FAQ fact sheet is also attached, which provides additional information on proposed activities relevant to stakeholder feedback we have received for previous consultation activities.

We have identified potential impacts to commercial fishers and the environment and have endeavoured to reduce these risks to as low as reasonably practicable. Fisheries have been identified as being relevant based on fishing area overlap with the activity area, assessment of government fishing effort data from recent years, fishing methods and water depth.

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Please provide your views by 21 October 2021.

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Location: 244 km north-northwest of Exmouth, 374 km west-northwest of Dampier.

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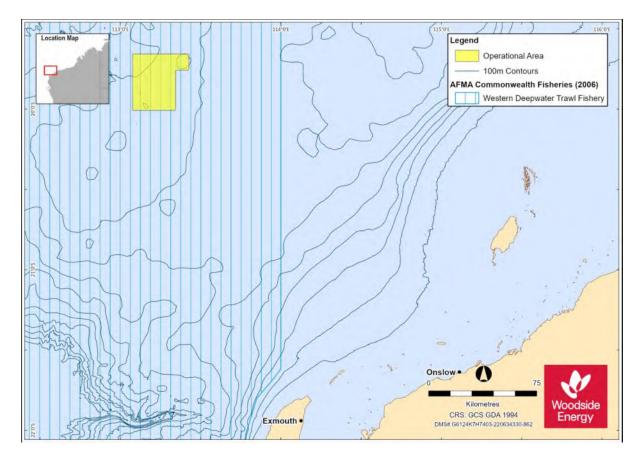
Please provide your views by 21 October 2021.

Regards,

Woodside Feedback

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1.25 Email sent to Western Australian Fishing Industry Council (WAFIC) – 21 September 2022)

Dear

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More information on the Scarborough development can be found here .

Please provide your views by 21 October 2021.

Activity:

Summary: Seabed site surveys and installation of subsea production infrastructure required

to support future production from the Scarborough Field.

Location: 244 km north-northwest of Exmouth, 374 km west-northwest of Dampier.

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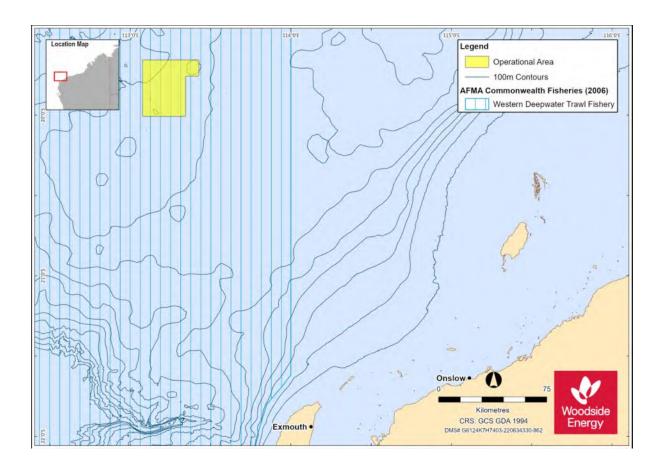
Please provide your views by 21 October 2021.

Regards,



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1.26 Presentation to Karratha Community Liaison Group (CLG) members – 21 September 2022

Environmental approvals

NWS Project Extension Environmental Review Document

- On June 30, after more than 3 years engagement, the Environmental Protection Authority (EPA) recommended approval
 of the NWS Project Extension, with rigorous conditions.
- The EPA's appeals period closed 21 July with 759 appeals lodged on themes including scope 3 emissions, rock art and marine discharges.
- The NWS Project has not appealed the proposed conditions. The Office of the Appeals Convenor is assessing the
 appeals. Finalising the approval will help secure the future of the NWS Project and ongoing benefits for our community.

Scarborough Subsea Infrastructure Installation Environment Plan

- Woodside (as Operator of the Scarborough Project) is planning to undertake seabed site surveys and installation of subsea production infrastructure within Permit Areas WA-61-L and WA-62-L, around 374 km west-northwest of Dampier, Western Australia.
- Proposed activities are planned to commence in the second half of 2023. Activities will be undertaken in multiple campaigns, with an expected total duration of 18 months.
- Consultation has commenced, Woodside seeking stakeholder feedback by 21 October 2022.

23 | Karratha CLG Q2 Meeting



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ENVIRONMENT Scarborough Subsea Infrastructure Installation Environment Plan (EP) · The Scarborough gas resource is located approximately 375 km west-northwest of the Burrup Peninsula and is part of the Greater Scarborough gas fields. · Woodside is proposing to develop the Scarborough gas resource through a semisubmersible floating production unit (FPU), which will be moored in 950 m of water, connected by an approximately 430 km pipeline to a proposed expansion of the existing Pluto LNG onshore facility. · Proposed EP activities will include visual and gravimetric surveys, plus installation of flowlines, umbilicals, risers, mooring legs, concrete pads and ancillary infrastructure, required for the flow and control of hydrocarbons to the Scarborough FPU.

1.27 Email sent to Karratha CLG members - 21 September 2022

Dear Karratha CLG members

CONFIDENTIAL

Thank you to those who joined us today for our Q3 CLG meeting. We will share the meeting minutes and the presentation pack shortly.

As detailed in the meeting, Woodside is planning to submit an Environment Plan (EP) for Scarborough subsea infrastructure installation and survey activities located in Permit Areas WA-61-L and WA-62-L in Commonwealth waters, about 374 km west-northwest of Dampier, Western Australia.

The proposed EP activities will include visual and gravimetric surveys, plus installation of flowlines, umbilicals, risers, mooring legs, concrete pads and ancillary infrastructure, required for the flow and control of hydrocarbons to the Scarborough FPU. Proposed activities are planned to commence in the second half of 2023 and be undertaken in multiple campaigns, with an expected total duration of 18 months.

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An FAQ fact sheet is also attached, which provides additional information on proposed activities relevant to stakeholder feedback we have received for previous consultation activities.

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More information on the Scarborough development can be found here .

Please provide your views by 21 October 2021.

Activity:

Summary:

Seabed site surveys and installation of subsea production infrastructure required to support future production from the Scarborough Field.

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Location: 244 km north-northwest of Exmouth, 374 km west-northwest of Dampier.

Approx. Water Depth (m): $\sim 900 \text{ m} - 1000 \text{ m}$.

Schedule: H2 2023 pending approvals, vessel availability and weather constraints.

Duration: Approximately 18 months (cumulative) for the survey and installation activities.

When underway, activities will be conducted 24 hours per day, seven days per

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Exclusionary/Cautionary Zone: The Operational Area for activities includes a radius of:

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A temporary 500 m exclusion zone will be in place around vessels to

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Marine notices will be issued prior to activity commencement to alert vessels which

may be operating in waters nearby.

Vessels: Proposed survey and installation activities will be performed by up to

four dedicated and specialised dynamically positioned activity and

support vessels.

Feedback:

If you have any issues or concerns with these activities, any other issues relevant to this location then please respond to Woodside at:

Feedback@woodside.com.au or 1800 442 977

Your feedback and our response will be included in our Environment Plan which will be submitted to the National Offshore Petroleum Safety and Environmental Management Authority (NOPSEMA) for acceptance in accordance with the Offshore Petroleum and Greenhouse Gas Storage (Environment) Regulations 2009 (Cth).

Please let us know if your feedback for this activity is sensitive and we will make this known to NOPSEMA upon submission of the EP in order for this information to remain confidential to NOPSEMA.

Please provide your views by 21 October 2021.

Regards,

1.28 Email sent to International Fund for Animal Welfare (IFAW) - 21 September 2022

Dear Stakeholder

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Regards,

Woodside Feedback

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1.29 Email sent to Australian Conservation Foundation (ACF) - 21 September 2022

Dear Stakeholder

Woodside is planning to submit an Environment Plan (EP) for Scarborough subsea infrastructure installation and survey activities located in Permit Areas WA-61-L and WA-62-L in Commonwealth waters, about 374 km west-northwest of Dampier, Western Australia.

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Regards,

Woodside Feedback

1.30 Email sent to Tuna Australia – 21 September 2022



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Woodside Feedback

1.31 Email sent to Australian Petroleum Production and Exploration Association (APPEA) – 21 September 2022

Dear APPEA

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1.32 Email sent to Australian Marine Conservation Society (AMCS) - 21 September 2021

Dear Stakeholder

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to support future production from the Scarborough Field.

Location: 244 km north-northwest of Exmouth, 374 km west-northwest of Dampier.

Approx. Water Depth (m): ~ 900 m - 1000 m.

Schedule: H2 2023 pending approvals, vessel availability and weather constraints.

Duration: Approximately 18 months (cumulative) for the survey and installation activities.

When underway, activities will be conducted 24 hours per day, seven days per

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Exclusionary/Cautionary Zone: The Operational Area for gravimetry activities includes a radius of:

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Marine notices will be issued prior to activity commencement to alert vessels which

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Vessels: Proposed survey and installation activities will be performed by up to

four dedicated and specialised dynamically positioned activity and

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Feedback:

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Please let us know if your feedback for this activity is sensitive and we will make this known to NOPSEMA upon submission of the EP in order for this information to remain confidential to NOPSEMA.

Please provide your views by 21 October 2021.

Regards,

Woodside Feedback

1.33 Email sent to Conservation Council of Western Australia (CCWA) - 21 September 2022

Dear Stakeholder

Woodside is planning to submit an Environment Plan (EP) for Scarborough subsea infrastructure installation and survey activities located in Permit Areas WA-61-L and WA-62-L in Commonwealth waters, about 374 km west-northwest of Dampier, Western Australia.

The proposed EP activities will include visual and gravimetric surveys, plus installation of flowlines, umbilicals, risers, mooring legs, concrete pads and ancillary infrastructure, required for the flow and control of hydrocarbons to the Scarborough Floating Processing Unit. Proposed activities are planned to commence in the second half of 2023 and be undertaken in multiple campaigns, with an expected total duration of 18 months.

A Consultation Information Sheet is attached, which provides background on the proposed activity, including a summary of potential key risks and associated management measures. The Information Sheet is available on our website.

An FAQ fact sheet is also attached, which provides additional information on proposed activities relevant to stakeholder feedback we have received for previous consultation activities.

The WA-61-L and WA-62-L Subsea Infrastructure Installation EP falls under the primary environmental approval of the Scarborough Offshore Project Proposal (OPP) and will be conducted in line with relevant requirements of the OPP. This EP is the third of four Commonwealth EPs proposed for the Scarborough development.

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Exclusionary/Cautionary Zone: The Operational Area for gravimetry activities includes a radius of:

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A temporary 500 m exclusion zone will be in place around vessels to manage vessel movements.

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Feedback:

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Please provide your views by 21 October 2021.

Regards,

Woodside Feedback

1.34 Email sent to Australasian Centre for Corporate Responsibility (ACCR) – 21 September 2022

Dear Stakeholder

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Regards,

Woodside Feedback

1.35 Email sent to The Wilderness Society (TWS) - 21 September 2022

Dear Stakeholder

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Regards,

Woodside Feedback

1.36 Email sent to Say No To Scarborough Gas (SNTSG) - 21 September 2022

Dear Stakeholder

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Marine notices will be issued prior to activity commencement to alert vessels which

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Woodside Feedback

1.37 Email sent to Extinction Rebellion WA (XRWA) - 21 September 2022

Dear Stakeholder

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Schedule: H2 2023 pending approvals, vessel availability and weather constraints.

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Regards,

Woodside Feedback

1.38 Email sent to Sea Shepherd Australia (SSA) - 21 September 2022

Dear Stakeholder

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Woodside Feedback

1.39 Email sent to Market Forces – 21 September 2022

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Woodside Feedback

1.40 Email sent to Climate Council - 21 September 2022

Dear Stakeholder

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1.41 Email sent to Greenpeace Australia Pacific (GAP) – 21 September 2022

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support vessels.

Feedback:

If you have any issues or concerns with these activities, any other issues relevant to this location then please respond to Woodside at Feedback@woodside.com.au or 1800 442 977.

Your feedback and our response will be included in our Environment Plan which will be submitted to the National Offshore Petroleum Safety and Environmental Management Authority (NOPSEMA) for acceptance in accordance with the Offshore Petroleum and Greenhouse Gas Storage (Environment) Regulations 2009 (Cth).

Please let us know if your feedback for this activity is sensitive and we will make this known to NOPSEMA upon submission of the EP in order for this information to remain confidential to NOPSEMA.

Please provide your views by 21 October 2021.

Regards,

Woodside Feedback

1.42 Email sent to Lock the Gate - 21 September 2022

Dear Stakeholder

Woodside is planning to submit an Environment Plan (EP) for Scarborough subsea infrastructure installation and survey activities located in Permit Areas WA-61-L and WA-62-L in Commonwealth waters, about 374 km west-northwest of Dampier, Western Australia.

The proposed EP activities will include visual and gravimetric surveys, plus installation of flowlines, umbilicals, risers, mooring legs, concrete pads and ancillary infrastructure, required for the flow and control of hydrocarbons to the Scarborough Floating Processing Unit. Proposed activities are planned to commence in the second half of 2023 and be undertaken in multiple campaigns, with an expected total duration of 18 months.

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A Consultation Information Sheet is attached, which provides background on the proposed activity, including a summary of potential key risks and associated management measures. The Information Sheet is available on our website.

An FAQ fact sheet is also attached, which provides additional information on proposed activities relevant to stakeholder feedback we have received for previous consultation activities.

The WA-61-L and WA-62-L Subsea Infrastructure Installation EP falls under the primary environmental approval of the Scarborough Offshore Project Proposal (OPP) and will be conducted in line with relevant requirements of the OPP. This EP is the third of four Commonwealth EPs proposed for the Scarborough development.

More information on the Scarborough development can be found here .

Please provide your views by 21 October 2021.

Activity:

Summary: Seabed site surveys and installation of subsea production infrastructure required

to support future production from the Scarborough Field.

Location: 244 km north-northwest of Exmouth, 374 km west-northwest of Dampier.

Approx. Water Depth (m): ~ 900 m – 1000 m.

Schedule: H2 2023 pending approvals, vessel availability and weather constraints.

Duration: Approximately 18 months (cumulative) for the survey and installation activities.

When underway, activities will be conducted 24 hours per day, seven days per

week.

Exclusionary/Cautionary Zone: The Operational Area for gravimetry activities includes a radius of:

• 1000 m around location of the outermost concrete pads.

• 1500 m around location of subsea infrastructure.

• 2000 m around future location of FPU.

A temporary 500 m exclusion zone will be in place around vessels to

manage vessel movements.

Marine notices will be issued prior to activity commencement to alert vessels which

may be operating in waters nearby.

Vessels: Proposed survey and installation activities will be performed by up to

four dedicated and specialised dynamically positioned activity and

support vessels.

Feedback:

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Please provide your views by 21 October 2021.

Regards,

Woodside Feedback

1.43 Email sent to 350 Australia (350A) - 21 September 2022

Dear Stakeholder

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Regards,

Woodside Feedback

1.44 Email sent to Doctors for the Environment Australia (DEA) - 21 September 2022

Dear Stakeholder

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Please provide your views by 21 October 2021.

Regards,

Woodside Feedback

1.45 Email sent to Friends of Australian Rock Art (FARA) - 21 September 2022

Dear Stakeholder

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More information on the Scarborough development can be found here .

Please provide your views by 21 October 2021.

Activity:

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Location: 244 km north-northwest of Exmouth, 374 km west-northwest of Dampier.

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Please provide your views by 21 October 2021.

Regards,

Woodside Feedback

1.46 Email sent to Recfishwest - 21 September 2022

Dear

Woodside is planning to submit an Environment Plan (EP) for Scarborough subsea infrastructure installation and

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Feedback:

Vessels:

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the National Offshore Petroleum Safety and Environmental Management Authority (NOPSEMA) for acceptance in accordance with the Offshore Petroleum and Greenhouse Gas Storage (Environment) Regulations 2009 (Cth).

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Please provide your views by 21 October 2021.

Regards,

Woodside Feedback

1.47 Email sent Western Gas and Chevron - 21 September 2022

Dear neighbouring titleholder

Woodside is planning to submit an Environment Plan (EP) for Scarborough subsea infrastructure installation and survey activities located in Permit Areas WA-61-L and WA-62-L in Commonwealth waters, about 374 km west-northwest of Dampier, Western Australia.

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More information on the Scarborough development can be found $\underline{\text{here}}$.

Please provide your views by 21 October 2021.

Activity:

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A temporary 500 m exclusion zone will be in place around vessels to manage vessel movements.

Marine notices will be issued prior to activity commencement to alert vessels which may be operating in waters nearby.

Vessels:

Proposed survey and installation activities will be performed by up to four dedicated and specialised dynamically positioned activity and support vessels.

Feedback:

If you have any issues or concerns with these activities, any other issues relevant to this location then please respond to Woodside at Feedback@woodside.com.au or 1800 442 977.

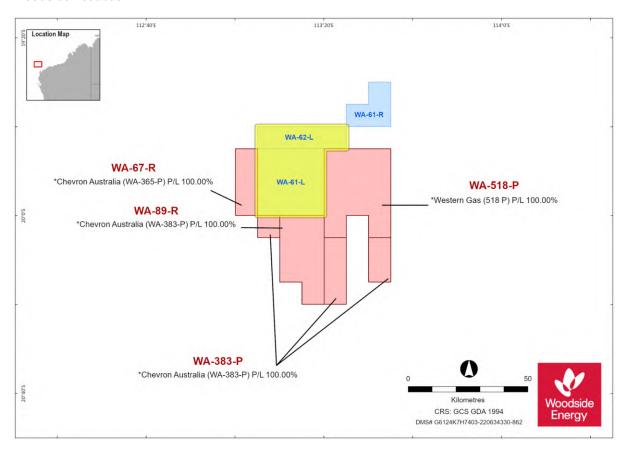
Your feedback and our response will be included in our Environment Plan which will be submitted to the National Offshore Petroleum Safety and Environmental Management Authority (NOPSEMA) for acceptance in accordance with the Offshore Petroleum and Greenhouse Gas Storage (Environment) Regulations 2009 (Cth).

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Please provide your views by 21 October 2021.

Regards,

Woodside Feedback



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1.48 Email sent to Western Deepwater Trawl Fishery Licence Holders (5 Licence Holders) – 21 September 2022

Dear licence holders

Woodside is planning to submit an Environment Plan (EP) for Scarborough subsea infrastructure installation and survey activities located in Permit Areas WA-61-L and WA-62-L in Commonwealth waters, about 374 km west-northwest of Dampier, Western Australia.

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We have identified potential impacts to commercial fishers and the environment and have endeavoured to reduce these risks to as low as reasonably practicable. Fisheries have been identified as being relevant based on fishing area overlap with the activity area, assessment of government fishing effort data from recent years, fishing methods and water depth.

The Western Deepwater Trawl Fishery has been identified as the only fishery relevant to the proposed activities outlined in the EP. A map of the fishery showing the activity location is attached for reference.

The WA-61-L and WA-62-L Subsea Infrastructure Installation EP falls under the primary environmental approval of the Scarborough Offshore Project Proposal (OPP) and will be conducted in line with relevant requirements of the OPP. This EP is the third of four Commonwealth EPs proposed for the Scarborough development.

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Activity:

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Marine notices will be issued prior to activity commencement to alert vessels which may be operating in waters nearby.

Vessels:

Proposed survey and installation activities will be performed by up to four dedicated and specialised dynamically positioned activity and support vessels.

Feedback:

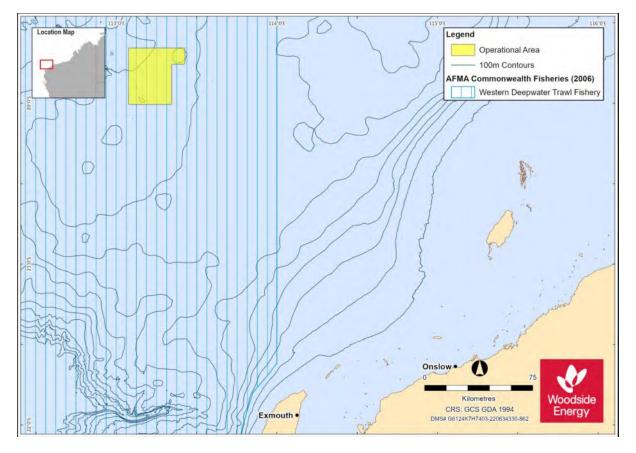
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Please provide your views by 21 October 2021.

Regards,



Woodside Feedback

1.49 Email sent to World Wildlife Fund (WWF) Australia – 21 September 2022

Dear Stakeholder

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Please provide your views by 21 October 2021.

Regards,

Woodside Feedback

1.50 Email to Murujuga Aboriginal Corporation (MAC) - 12 October 2022

Hi and team,

Sarah, I understand is currently on leave, but if you could please remind him of the below upon his return it'd be greatly appreciated. If MAC has any comments or queries please do not hesitate to reach out to Feedback@woodside.com.au or 1800 442 977 by 21 October 2022.

Best regards,

Principal Heritage Adviser | Indigenous Affairs

1.51 Email to Murujuga Aboriginal Corporation - 23 September 2022

Dear _____,

Woodside is planning to submit an Environment Plan (EP) for Scarborough subsea infrastructure installation and survey activities located in Permit Areas WA-61-L and WA-62-L in Commonwealth waters, about 374 km west-northwest of Dampier, Western Australia.

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When underway, activities will be conducted 24 hours per day, seven days per

week.

Exclusionary/Cautionary Zone: The Operational Area for activities includes a radius of:

• 1000 m around location of the outermost concrete pads.

• 1500 m around location of subsea infrastructure.

2000 m around future location of FPU.

A temporary 500 m exclusion zone will be in place around vessels to

manage vessel movements.

Marine notices will be issued prior to activity commencement to alert vessels which

may be operating in waters nearby.

Vessels: Proposed survey and installation activities will be performed by up to

four dedicated and specialised dynamically positioned activity and

support vessels.

Feedback:

If you have any issues or concerns with these activities, any other issues relevant to this location then please respond to Woodside at:

Feedback@woodside.com.au or 1800 442 977

Your feedback and our response will be included in our Environment Plan which will be submitted to the National Offshore Petroleum Safety and Environmental Management Authority (NOPSEMA) for acceptance in accordance with the Offshore Petroleum and Greenhouse Gas Storage (Environment) Regulations 2009 (Cth).

Please let us know if your feedback for this activity is sensitive and we will make this known to NOPSEMA upon submission of the EP in order for this information to remain confidential to NOPSEMA.

Please provide your views by 21 October 2021.

Regards,

Woodside Feedback

1.52 Email to Ngarluma Yindjibarndi Foundation Ltd (NYFL) – 23 September 2022

Dear _____,

Woodside is planning to submit an Environment Plan (EP) for Scarborough subsea infrastructure installation and survey activities located in Permit Areas WA-61-L and WA-62-L in Commonwealth waters, about 374 km west-northwest of Dampier, Western Australia.

The proposed EP activities will include visual and gravimetric surveys, plus installation of flowlines, umbilicals, risers, mooring legs, concrete pads and ancillary infrastructure, required for the flow and control of hydrocarbons to the Scarborough FPU. Proposed activities are planned to commence in the second half of 2023 and be undertaken in multiple campaigns, with an expected total duration of 18 months.

A Consultation Information Sheet is attached, which provides background on the proposed activity, including a summary of potential key risks and associated management measures. The Information Sheet is also available on our website.

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An FAQ fact sheet is also attached, which provides additional information on proposed activities relevant to stakeholder feedback we have received for previous consultation activities.

The WA-61-L and WA-62-L Subsea Infrastructure Installation EP falls under the primary environmental approval of the Scarborough Offshore Project Proposal (OPP) and will be conducted in line with relevant requirements of the OPP. This EP is the third of four Commonwealth EPs proposed for the Scarborough development.

More information on the Scarborough development can be found here .

Please provide your views by 21 October 2021.

Activity:

Summary: Seabed site surveys and installation of subsea production infrastructure required

to support future production from the Scarborough Field.

Location: 244 km north-northwest of Exmouth, 374 km west-northwest of Dampier.

Approx. Water Depth (m): ~ 900 m – 1000 m.

Schedule: H2 2023 pending approvals, vessel availability and weather constraints.

Duration: Approximately 18 months (cumulative) for the survey and installation activities.

When underway, activities will be conducted 24 hours per day, seven days per

week.

Exclusionary/Cautionary Zone: The Operational Area for activities includes a radius of:

• 1000 m around location of the outermost concrete pads.

• 1500 m around location of subsea infrastructure.

• 2000 m around future location of FPU.

A temporary 500 m exclusion zone will be in place around vessels to

manage vessel movements.

Marine notices will be issued prior to activity commencement to alert vessels which

may be operating in waters nearby.

Vessels: Proposed survey and installation activities will be performed by up to

four dedicated and specialised dynamically positioned activity and

support vessels.

Feedback:

If you have any issues or concerns with these activities, any other issues relevant to this location then please respond to Woodside at:

Feedback@woodside.com.au or 1800 442 977

Your feedback and our response will be included in our Environment Plan which will be submitted to the National Offshore Petroleum Safety and Environmental Management Authority (NOPSEMA) for acceptance in accordance with the Offshore Petroleum and Greenhouse Gas Storage (Environment) Regulations 2009 (Cth).

Please let us know if your feedback for this activity is sensitive and we will make this known to NOPSEMA upon submission of the EP in order for this information to remain confidential to NOPSEMA.

Please provide your views by 21 October 2021.

Regards,

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Woodside Feedback

1.53 Email to Ngarluma Aboriginal Corporation – 23 September 2022

Dear

Woodside is planning to submit an Environment Plan (EP) for Scarborough subsea infrastructure installation and survey activities located in Permit Areas WA-61-L and WA-62-L in Commonwealth waters, about 374 km west-northwest of Dampier, Western Australia.

The proposed EP activities will include visual and gravimetric surveys, plus installation of flowlines, umbilicals, risers, mooring legs, concrete pads and ancillary infrastructure, required for the flow and control of hydrocarbons to the Scarborough FPU. Proposed activities are planned to commence in the second half of 2023 and be undertaken in multiple campaigns, with an expected total duration of 18 months.

A Consultation Information Sheet is attached, which provides background on the proposed activity, including a summary of potential key risks and associated management measures. The Information Sheet is also available on our <u>website</u>.

An FAQ fact sheet is also attached, which provides additional information on proposed activities relevant to stakeholder feedback we have received for previous consultation activities.

The WA-61-L and WA-62-L Subsea Infrastructure Installation EP falls under the primary environmental approval of the Scarborough Offshore Project Proposal (OPP) and will be conducted in line with relevant requirements of the OPP. This EP is the third of four Commonwealth EPs proposed for the Scarborough development.

More information on the Scarborough development can be found here .

Please provide your views by 21 October 2021.

Activity:

Summary: Seabed site surveys and installation of subsea production infrastructure required

to support future production from the Scarborough Field.

Location: 244 km north-northwest of Exmouth, 374 km west-northwest of Dampier.

Approx. Water Depth (m): ~ 900 m – 1000 m.

Schedule: H2 2023 pending approvals, vessel availability and weather constraints.

Duration: Approximately 18 months (cumulative) for the survey and installation activities.

When underway, activities will be conducted 24 hours per day, seven days per

week.

Exclusionary/Cautionary Zone: The Operational Area for activities includes a radius of:

• 1000 m around location of the outermost concrete pads.

1500 m around location of subsea infrastructure.

• 2000 m around future location of FPU.

A temporary 500 m exclusion zone will be in place around vessels to manage vessel movements.

Marine notices will be issued prior to activity commencement to alert vessels which

may be operating in waters nearby.

Vessels: Proposed survey and installation activities will be performed by up to

four dedicated and specialised dynamically positioned activity and

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support vessels.

Feedback:

If you have any issues or concerns with these activities, any other issues relevant to this location then please respond to Woodside at:

Feedback@woodside.com.au or 1800 442 977

Your feedback and our response will be included in our Environment Plan which will be submitted to the National Offshore Petroleum Safety and Environmental Management Authority (NOPSEMA) for acceptance in accordance with the Offshore Petroleum and Greenhouse Gas Storage (Environment) Regulations 2009 (Cth).

Please let us know if your feedback for this activity is sensitive and we will make this known to NOPSEMA upon submission of the EP in order for this information to remain confidential to NOPSEMA.

Please provide your views by 21 October 2021.

Regards,

Woodside Feedback

1.54 Email to and Save our Songlines - 23 September 2022

Dear Stakeholder

Woodside is planning to submit an Environment Plan (EP) for Scarborough subsea infrastructure installation and survey activities located in Permit Areas WA-61-L and WA-62-L in Commonwealth waters, about 374 km west-northwest of Dampier, Western Australia.

The proposed EP activities will include visual and gravimetric surveys, plus installation of flowlines, umbilicals, risers, mooring legs, concrete pads and ancillary infrastructure, required for the flow and control of hydrocarbons to the Scarborough Floating Processing Unit. Proposed activities are planned to commence in the second half of 2023 and be undertaken in multiple campaigns, with an expected total duration of 18 months.

A Consultation Information Sheet is attached, which provides background on the proposed activity, including a summary of potential key risks and associated management measures. The Information Sheet is available on our <u>website</u>.

An FAQ fact sheet is also attached, which provides additional information on proposed activities relevant to stakeholder feedback we have received for previous consultation activities.

We have identified potential impacts to commercial fishers and the environment and have endeavoured to reduce these risks to as low as reasonably practicable. Fisheries have been identified as being relevant based on fishing area overlap with the activity area, assessment of government fishing effort data from recent years, fishing methods and water depth.

The Western Deepwater Trawl Fishery has been identified as the only fishery relevant to the proposed activities outlined in the EP. A map of the fishery showing the activity location is attached for reference. The WA-61-L and WA-62-L Subsea Infrastructure Installation EP falls under the primary environmental approval of the Scarborough Offshore Project Proposal (OPP) and will be conducted in line with relevant requirements of the OPP. This EP is the third of four Commonwealth EPs proposed for the Scarborough development.

More information on the Scarborough development can be found here.

Please provide your views by 21 October 2021.

Activity:

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Summary: Seabed site surveys and installation of subsea production infrastructure

required to support future production from the Scarborough Field.

Location: 244 km north-northwest of Exmouth, 374 km west-northwest of

Dampier.

Approx. Water Depth (m): ~ 900 m – 1000 m.

Schedule: H2 2023 pending approvals, vessel availability and weather constraints.

Duration: Approximately 18 months (cumulative) for the survey and installation

activities. When underway, activities will be conducted 24 hours per

day, seven days per week.

Exclusionary/Cautionary Zone: The Operational Area for gravimetry activities includes a radius of:

1000 m around location of the outermost concrete pads.

• 1500 m around location of subsea infrastructure.

• 2000 m around future location of FPU.

A temporary 500 m exclusion zone will be in place around vessels to

manage vessel movements.

Marine notices will be issued prior to activity commencement to alert

vessels which may be operating in waters nearby.

Vessels: Proposed survey and installation activities will be performed by up to

four dedicated and specialised dynamically positioned activity and

support vessels.

Feedback:

If you have any issues or concerns with these activities, any other issues relevant to this location then please respond to Woodside at Feedback@woodside.com.au or 1800 442 977.

Your feedback and our response will be included in our Environment Plan which will be submitted to the National Offshore Petroleum Safety and Environmental Management Authority (NOPSEMA) for acceptance in accordance with the Offshore Petroleum and Greenhouse Gas Storage (Environment) Regulations 2009 (Cth).

Please let us know if your feedback for this activity is sensitive and we will make this known to NOPSEMA upon submission of the EP in order for this information to remain confidential to NOPSEMA.

Please provide your views by 21 October 2021.

Regards,

Woodside Feedback

1.55 Email to Wirrawandi Aboriginal Corporation – 23 September 2022

Dear

Woodside is planning to submit an Environment Plan (EP) for Scarborough subsea infrastructure installation and survey activities located in Permit Areas WA-61-L and WA-62-L in Commonwealth waters, about 374 km west-northwest of Dampier, Western Australia.

The proposed EP activities will include visual and gravimetric surveys, plus installation of flowlines, umbilicals, risers, mooring legs, concrete pads and ancillary infrastructure, required for the flow and control of hydrocarbons to the Scarborough FPU. Proposed activities are planned to commence in the second half of 2023 and be undertaken in multiple campaigns, with an expected total duration of 18 months.

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A Consultation Information Sheet is attached, which provides background on the proposed activity, including a summary of potential key risks and associated management measures. The Information Sheet is also available on our website.

An FAQ fact sheet is also attached, which provides additional information on proposed activities relevant to stakeholder feedback we have received for previous consultation activities.

The WA-61-L and WA-62-L Subsea Infrastructure Installation EP falls under the primary environmental approval of the Scarborough Offshore Project Proposal (OPP) and will be conducted in line with relevant requirements of the OPP. This EP is the third of four Commonwealth EPs proposed for the Scarborough development.

More information on the Scarborough development can be found here .

Please provide your views by 21 October 2021.

Activity:

Summary: Seabed site surveys and installation of subsea production infrastructure required

to support future production from the Scarborough Field.

Location: 244 km north-northwest of Exmouth, 374 km west-northwest of Dampier.

Approx. Water Depth (m): ~ 900 m - 1000 m.

Schedule: H2 2023 pending approvals, vessel availability and weather constraints.

Duration: Approximately 18 months (cumulative) for the survey and installation activities.

When underway, activities will be conducted 24 hours per day, seven days per

week.

Exclusionary/Cautionary Zone: The Operational Area for activities includes a radius of:

• 1000 m around location of the outermost concrete pads.

• 1500 m around location of subsea infrastructure.

• 2000 m around future location of FPU.

A temporary 500 m exclusion zone will be in place around vessels to

manage vessel movements.

Marine notices will be issued prior to activity commencement to alert vessels which

may be operating in waters nearby.

Vessels: Proposed survey and installation activities will be performed by up to

four dedicated and specialised dynamically positioned activity and

support vessels.

Feedback:

If you have any issues or concerns with these activities, any other issues relevant to this location then please respond to Woodside at:

Feedback@woodside.com.au or 1800 442 977

Your feedback and our response will be included in our Environment Plan which will be submitted to the National Offshore Petroleum Safety and Environmental Management Authority (NOPSEMA) for acceptance in accordance with the Offshore Petroleum and Greenhouse Gas Storage (Environment) Regulations 2009 (Cth).

Please let us know if your feedback for this activity is sensitive and we will make this known to NOPSEMA upon submission of the EP in order for this information to remain confidential to NOPSEMA.

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Please provide your views by 21 October 2021.

Regards,

Woodside Feedback

1.56 Email to DoT - 28 September 2022



As part of Woodside's ongoing consultation for its current and planned activities, I would like to advise WA Department of Transport (DoT) that Woodside is preparing the WA-61-L & WA-62-L Subsea Infrastructure Installation Environment Plan (EP). Woodside (as Operator of the Scarborough Project) is planning to undertake seabed site surveys and installation of subsea production infrastructure within Permit Areas WA-61-L and WA-62-L, about 374 km west-northwest of Dampier, Western Australia.

Woodside would like to offer DoT the opportunity to review or provide comment on the activity.

Information is presented as follows:

- A Consultation Information Sheet is available on our website <u>here</u>, providing information on the proposed activities. An additional information sheet covering frequently asked questions is available <u>here</u>.
- The WA-61-L & WA-62-L Subsea Infrastructure Installation Oil Pollution First Strike Plan is attached. This will form part of the approval submission in accordance with the Offshore Petroleum and Greenhouse Gas Storage (Environment) Regulations 2009 (Cth).
- In the table below, as requested in the *Offshore Petroleum Industry Guidance Note* (July 2020) and from recent engagement activities between DoT and Woodside, responses to the information requirements in a succinct summary and source of information.

Woodside anticipates submitting the proposed EP in November 2022 to support these activities.

If you have any feedback on these activities, please respond to Woodside at: <u>Feedback@woodside.com.au</u> or 1800 442 977 by **COB 04 November 2022**.

Your feedback and our response will be included in our Environment Plan which will be submitted to the National Offshore Petroleum Safety and Environmental Management Authority (NOPSEMA) for acceptance in accordance with the Offshore Petroleum and Greenhouse Gas Storage (Environment) Regulations 2009 (Cth).

Please let us know if your feedback for this activity is sensitive and we will make this known to NOPSEMA upon submission of the Environment Plan in order for this information to remain confidential to NOPSEMA.

Many thanks,

Information Requested in the Offshore Petroleum Industry Guidance Note (July 2020)	Information Provided & Reference
Description of activity, including the intended schedule, location (including	Included in the consultation information sheet

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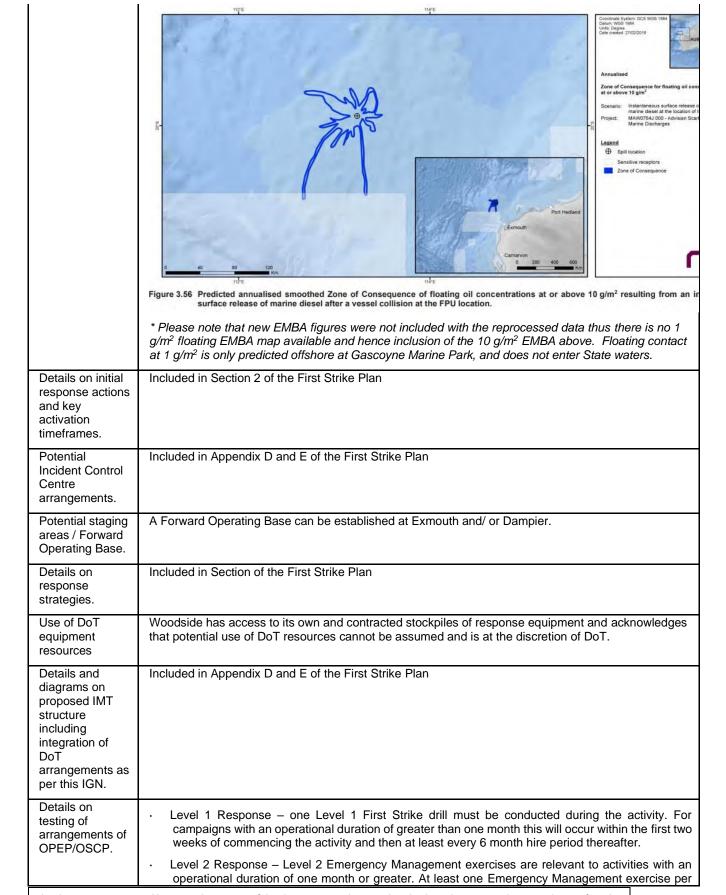
coordinates), distance to nearest landfall and map.	
Worst case spill volumes.	Included in Appendix A of the First Strike Plan
Known or indicative oil type/properties.	Included in Appendix A of the First Strike Plan
Amenability of oil to dispersants and window of opportunity for dispersant efficacy.	Dispersant is not deemed to be suitable for a marine diesel oil (MDO) spill.
Description of existing environment and protection priorities.	Included in Section 3 of the First Strike Plan
Details of the environmental risk assessment related to marine oil pollution - describe the process and key outcomes around risk identification, risk analysis, risk evaluation and risk treatment. For further information see the Oil Pollution Risk Management Information Paper (NOPSEMA 2021).	Unplanned loss of containment events from the Petroleum Activities Program have been identified during the risk assessment process (presented in Section 6 of the EP). Further descriptions of risk, impacts and mitigation measures (which are not related to hydrocarbon preparedness and response) are provided in Section 6 of the EP. One unplanned event or credible spill scenario for the Petroleum Activities Program has been selected as representative across types, sources and incident/response levels, up to and including the WCCS. Table 2-1 of the OSPRMA and Appendix A of the First Strike Plan present the credible scenario for the Petroleum Activities Program. One worst-case credible scenarios (CS-01) has been used for response planning purposes for the activity as all other scenarios are of a lesser scale and extent. By demonstrating capability to meet and manage an event of this size and timescale, Woodside assumes relevant scenarios that are smaller in nature and scale can also be managed by the same capability. Response performance outcomes have been defined based on a response to the WCCS.
Outcomes of oil spill trajectory modelling, including predicted times to enter State waters and contact	Credible Scenario-01 (CS-01) – Surface release of Marine Diesel Oil after a vessel fuel tank rupture at the floating production unit (FPU) location Instantaneous release of 2000 m³. 5% residue of 100 m³ Minimum time to shoreline contact (above 100 g/m²) in days No contact at response thresholds
shorelines.	Stochastic modelling for the above scenario was undertaken by RPS in April 2019 and reprocessed in May 2021. The below figure shows the EMBA of floating oil concentrations at or above 10 g/m ^{2*}

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vessel per campaign must be conducted within the first month of commencing the activity and then at every 6 month hire period thereafter, where applicable based on duration.

 Level 3 Response – the number of CMT exercises conducted each year is determined by the Chief Executive Officer, in consultation with the Vice President of Security and Emergency Management.

Testing of Oil Spill Response Arrangements

Woodside's arrangements for spill response are common across its Australian operating assets and activities to ensure the controls are consistent. The overall objective of testing these arrangements is to ensure that Woodside maintains an ability to respond to a hydrocarbon spill, specifically to:

- Ensure relevant responders, contractors and key personnel understand and practise their assigned roles and responsibilities.
- Test response arrangements and actions to validate response plans.
- Ensure lessons learned are incorporated into Woodside's processes and procedures and improvements are made where required.

Woodside's Testing of Arrangements Schedule aligns with international good practice for spill preparedness and response management; the testing is compatible with the IPIECA Good Practice Guide and the Australian Institute for Disaster Resilience (AIDR) Australian Emergency Management Arrangements Handbook. If a spill occurs, enacting these arrangements will underpin Woodside's ability to implement a response across its petroleum activities.

The hydrocarbon spill arrangements included within the schedule are tested against Woodside's regulatory commitments. Each arrangement has a support agency/company and an area to be tested (e.g. capability, equipment and personnel). For example, an arrangement could be to test Woodside's personnel capability for conducting scientific monitoring, or the ability of the Australian Marine Oil Spill Centre to provide response personnel and equipment.

If new response arrangements are introduced, or existing arrangements significantly amended, additional testing is undertaken accordingly. Additional activities or activity locations are not anticipated to occur; however, if they do, testing of relevant response arrangements will be undertaken as soon as practicable.

In addition to the testing of response capability within the schedule, up to eight formal exercises are planned annually, across Woodside, to specifically test arrangements for responding to a hydrocarbon spill to the marine environment.

Some arrangements may be tested across multiple exercises (e.g. critical arrangements) or via other 'additional assurance' methods outside the formal Testing of Arrangements Schedule that also constitute sufficient evidence of testing of arrangements (e.g. audits, no-notice drills, internal exercises, assurance drills).

Additional comments

Please note some of the links in the document are still being finalised, and as such may show a reference error in the attached version.

1.57 Email to AMSA – Marine Pollution – 28 September 2022

Hi

As part of Woodside's ongoing consultation for its current and planned activities, I would like to advise the Australian Maritime Safety Authority (AMSA) that Woodside is preparing the WA-61-L & WA-62-L Subsea Infrastructure Installation Environment Plan (EP). Woodside (as Operator of the Scarborough Project) is planning to undertake seabed site surveys and installation of subsea production infrastructure within Permit Areas WA-61-L and WA-62-L, about 374 km west-northwest of Dampier, Western Australia.

Woodside would like to offer AMSA the opportunity to review or provide comment on the activity.

Information is presented as follows:

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- A Consultation Information Sheet is available on our website here, providing information on the proposed activities. An additional information sheet covering frequently asked questions is available here.
- The WA-61-L & WA-62-L Subsea Infrastructure Installation Oil Pollution First Strike Plan is attached.
 This will form part of the approval submission in accordance with the Offshore Petroleum and
 Greenhouse Gas Storage (Environment) Regulations 2009 (Cth).

Woodside anticipates submitting the proposed EP in November 2022 to support these activities.

If you have any feedback on these activities, please respond to Woodside at: <u>Feedback@woodside.com.au</u> or 1800 442 977 by **COB 04 November 2022**.

Your feedback and our response will be included in our Environment Plan which will be submitted to the National Offshore Petroleum Safety and Environmental Management Authority (NOPSEMA) for acceptance in accordance with the Offshore Petroleum and Greenhouse Gas Storage (Environment) Regulations 2009 (Cth).

Please let us know if your feedback for this activity is sensitive and we will make this known to NOPSEMA upon submission of the Environment Plan in order for this information to remain confidential to NOPSEMA.

Many thanks,

1.60 Email to Ngarluma Aboriginal Corporation (NAC) - 12 October 2022

Himme

Just a quick email to ensure this has not fallen off your radar. If NAC has any comments or queries please do not hesitate to reach out to Feedback@woodside.com.au or 1800 442 977 by 21 October 2022.

Best regards,

1.61 Email sent to Karratha CLG members – 12 October 2022

Dear CLG members

As per our email below, we are consulting on the Scarborough subsea infrastructure environment plan.

Please get in touch if you would like to discuss this activity with a member of the project team. We ask that any feedback is provided by 21 October please.

Regards,

1.62 Email to Wirrawandi Aboriginal Corporation (WAC) - 12 October 2022

Hi

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Just a quick email to ensure this has not fallen off your radar. If WAC has any comments or queries please do not hesitate to reach out to Feedback@woodside.com.au or 1800 442 977 by 21 October 2022.

Best regards,

1.63 Email sent to Say No to Scarborough Gas (SNTSG) - 12 October 2022

Dear Stakeholder

Woodside is sending this email by way of a reminder that the consultation period is closing soon to provide feedback on activities proposed to be managed under the **WA-61-L** and **WA-62-L** Scarborough Subsea Infrastructure Installation Environment Plan (EP).

Please see our initial consultation email below and attached information for further details.

Say No to Scarborough Gas has confirmed its availability to meet with Woodside on Thursday, 13 October 2022. To make the most of the meeting, we encourage Say No to Scarborough Gas to discuss issues it has in relation to the WA-61-L and WA-62-L Scarborough Subsea Infrastructure installation EP with regard to Say No to Scarborough Gas' functions, interests and activities.

Please note that the feedback period for the WA-61-L and WA-62-L Scarborough Subsea Infrastructure Installation EP closes on **21 October 2022**.

Woodside Feedback

1.66 Email sent to AMSA - 13 October 2022

Dear AMSA

Woodside is sending this email by way of a reminder that the consultation period is closing soon to provide feedback on activities proposed to be managed under the **WA-61-L** and **WA-62-L** Scarborough Subsea Infrastructure Installation Environment Plan (EP).

Please see our initial consultation email below and attached information for further details.

We would appreciate your feedback by 21 October 2022 to support our planning for the development of the EP.

Woodside Feedback

1.67 Email sent to ABF - 13 October 2022

Dear Australian Border Force

Woodside is sending this email by way of a reminder that the consultation period is closing soon to provide feedback on activities proposed to be managed under the **WA-61-L** and **WA-62-L** Scarborough Subsea Infrastructure Installation Environment Plan (EP).

Please see our initial consultation email below and attached information for further details.

We would appreciate your feedback by 21 October 2022 to support our planning for the development of the EP.

Woodside Feedback

1.68 Email sent to AFMA - 13 October 2022

Dear AFMA

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Woodside is sending this email by way of a reminder that the consultation period is closing soon to provide feedback on activities proposed to be managed under the WA-61-L and WA-62-L Scarborough Subsea Infrastructure Installation Environment Plan (EP).

Please see our initial consultation email below and attached information for further details.

We would appreciate your feedback by 21 October 2022 to support our planning for the development of the EP.

Woodside Feedback

1.69 Email sent to Western Deepwater Trawl Fishery licence holders - 13 October 2022

Dear licence holders

Woodside is sending this email by way of a reminder that the consultation period is closing soon to provide feedback on activities proposed to be managed under the WA-61-L and WA-62-L Scarborough Subsea Infrastructure Installation Environment Plan (EP).

Please see our initial consultation email below and attached information for further details.

We would appreciate your feedback by 21 October 2022 to support our planning for the development of the EP.

Woodside Feedback

1.70 Email sent to Neighbouring Titleholders - 13 October 2022

Dear neighbouring titleholder

Woodside is sending this email by way of a reminder that the consultation period is closing soon to provide feedback on activities proposed to be managed under the **WA-61-L** and **WA-62-L** Scarborough Subsea Infrastructure Installation Environment Plan (EP).

Please see our initial consultation email below and attached information for further details.

We would appreciate your feedback by 21 October 2022 to support our planning for the development of the EP.

1.71 Email sent to DCCEEW/DAFF - 13 October 2022

Dear DAFF

Woodside is sending this email by way of a reminder that the consultation period is closing soon to provide feedback on activities proposed to be managed under the **WA-61-L** and **WA-62-L** Scarborough Subsea Infrastructure Installation Environment Plan (EP).

Please see our initial consultation email below and attached information for further details.

We would appreciate your feedback by 21 October 2022 to support our planning for the development of the EP.

Woodside Feedback

1.72 Email sent to DISR (formerly DISER) (13 October 2022)

Dear DISER

Woodside is sending this email by way of a reminder that the consultation period is closing soon to provide feedback on activities proposed to be managed under the **WA-61-L** and **WA-62-L** Scarborough Subsea Infrastructure Installation Environment Plan (EP).

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Please see our initial consultation email below and attached information for further details.

We would appreciate your feedback by 21 October 2022 to support our planning for the development of the EP.

Woodside Feedback

1.73 Email sent to DNP (13 October 2022)

Dear Director of National Parks

Woodside is sending this email by way of a reminder that the consultation period is closing soon to provide feedback on activities proposed to be managed under the **WA-61-L** and **WA-62-L** Scarborough Subsea Infrastructure Installation Environment Plan (EP).

Please see our initial consultation email below and attached information for further details.

We would appreciate your feedback by 21 October 2022 to support our planning for the development of the EP.

Woodside Feedback

1.74 Email sent to DMIRS (13 October 2022)

Dear DMIRS

Woodside is sending this email by way of a reminder that the consultation period is closing soon to provide feedback on activities proposed to be managed under the WA-61-L and WA-62-L Scarborough Subsea Infrastructure Installation Environment Plan (EP).

Please see our initial consultation email below and attached information for further details.

We would appreciate your feedback by 21 October 2022 to support our planning for the development of the EP.

Woodside Feedback

1.75 Email sent to DPIRD (13 October 2022)

Dear

Woodside is sending this email by way of a reminder that the consultation period is closing soon to provide feedback on activities proposed to be managed under the WA-61-L and WA-62-L Scarborough Subsea Infrastructure Installation Environment Plan (EP).

Please see our initial consultation email below and attached information for further details.

We would appreciate your feedback by 21 October 2022 to support our planning for the development of the EP.

Woodside Feedback

1.76 Email sent to AIMS (13 October 2022)

Dear

Woodside is sending this email by way of a reminder that the consultation period is closing soon to provide feedback on activities proposed to be managed under the WA-61-L and WA-62-L Scarborough Subsea Infrastructure Installation Environment Plan (EP).

Please see our initial consultation email below and attached information for further details.

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We would appreciate your feedback by 21 October 2022 to support our planning for the development of the EP.

Woodside Feedback

1.77 Email sent to APPEA (13 October 2022)

Dear APPEA

Woodside is sending this email by way of a reminder that the consultation period is closing soon to provide feedback on activities proposed to be managed under the **WA-61-L** and **WA-62-L** Scarborough Subsea Infrastructure Installation Environment Plan (EP).

Please see our initial consultation email below and attached information for further details.

We would appreciate your feedback by 21 October 2022 to support our planning for the development of the EP.

Woodside Feedback

1.78 Email sent to ASBTIA (13 October 2022)

Dear ASBTIA

Woodside is sending this email by way of a reminder that the consultation period is closing soon to provide feedback on activities proposed to be managed under the **WA-61-L** and **WA-62-L** Scarborough Subsea Infrastructure Installation Environment Plan (EP).

Please see our initial consultation email below and attached information for further details.

We would appreciate your feedback by 21 October 2022 to support our planning for the development of the EP.

Woodside Feedback

1.79 Email sent to CFA (13 October 2022)

Dear CFA

Woodside is sending this email by way of a reminder that the consultation period is closing soon to provide feedback on activities proposed to be managed under the WA-61-L and WA-62-L Scarborough Subsea Infrastructure Installation Environment Plan (EP).

Please see our initial consultation email below and attached information for further details.

We would appreciate your feedback by 21 October 2022 to support our planning for the development of the EP.

Woodside Feedback

1.80 Email sent to Pearl Producers Australia (13 October 2022)

Dear

Woodside is sending this email by way of a reminder that the consultation period is closing soon to provide feedback on activities proposed to be managed under the **WA-61-L** and **WA-62-L** Scarborough Subsea Infrastructure Installation Environment Plan (EP).

Please see our initial consultation email below and attached information for further details.

We would appreciate your feedback by 21 October 2022 to support our planning for the development of the EP.

Woodside Feedback

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1.81 Email sent to Rechfishwest (13 October 2022)

Dear

Woodside is sending this email by way of a reminder that the consultation period is closing soon to provide feedback on activities proposed to be managed under the **WA-61-L** and **WA-62-L** Scarborough Subsea Infrastructure Installation Environment Plan (EP).

Please see our initial consultation email below and attached information for further details.

We would appreciate your feedback by 21 October 2022 to support our planning for the development of the EP.

Woodside Feedback

1.82 Email sent to Marine Tourism WA (13 October 2022)

Dear Marine Tourism WA

Woodside is sending this email by way of a reminder that the consultation period is closing soon to provide feedback on activities proposed to be managed under the WA-61-L and WA-62-L Scarborough Subsea Infrastructure Installation Environment Plan (EP).

Please see our initial consultation email below and attached information for further details.

We would appreciate your feedback by 21 October 2022 to support our planning for the development of the EP.

Woodside Feedback

1.83 Email sent to WAFIC (13 October 2022)

Dear

Woodside is sending this email by way of a reminder that the consultation period is closing soon to provide feedback on activities proposed to be managed under the **WA-61-L** and **WA-62-L** Scarborough Subsea Infrastructure Installation Environment Plan (EP).

Please see our initial consultation email below and attached information for further details.

We would appreciate your feedback by 21 October 2022 to support our planning for the development of the EP.

Woodside Feedback

1.84 Email sent to DEA (13 October 2022)

Dear Stakeholder

Woodside is sending this email by way of a reminder that the consultation period is closing soon to provide feedback on activities proposed to be managed under the WA-61-L and WA-62-L Scarborough Subsea Infrastructure Installation Environment Plan (EP).

Please see our initial consultation email below and attached information for further details.

We would appreciate your feedback by 21 October 2022 to support our planning for the development of the EP.

Woodside Feedback

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1.85 Email sent to FARA (13 October 2022)

Dear Stakeholder

Woodside is sending this email by way of a reminder that the consultation period is closing soon to provide feedback on activities proposed to be managed under the **WA-61-L** and **WA-62-L** Scarborough Subsea Infrastructure Installation Environment Plan (EP).

Please see our initial consultation email below and attached information for further details.

We would appreciate your feedback by 21 October 2022 to support our planning for the development of the EP.

Woodside Feedback

1.86 Email sent to Lock the Gate (13 October 2022)

Dear Stakeholder

Woodside is sending this email by way of a reminder that the consultation period is closing soon to provide feedback on activities proposed to be managed under the **WA-61-L** and **WA-62-L** Scarborough Subsea Infrastructure Installation Environment Plan (EP).

Please see our initial consultation email below and attached information for further details.

We would appreciate your feedback by 21 October 2022 to support our planning for the development of the EP.

Woodside Feedback

1.87 Email sent to IFAW (13 October 2022)

Dear Stakeholder

Woodside is sending this email by way of a reminder that the consultation period is closing soon to provide feedback on activities proposed to be managed under the **WA-61-L** and **WA-62-L** Scarborough Subsea Infrastructure Installation Environment Plan (EP).

Please see our initial consultation email below and attached information for further details.

We would appreciate your feedback by 21 October 2022 to support our planning for the development of the EP.

Woodside Feedback

1.88 Email sent to TWS (13 October 2022)

Dear Stakeholder

Woodside is sending this email by way of a reminder that the consultation period is closing soon to provide feedback on activities proposed to be managed under the **WA-61-L** and **WA-62-L** Scarborough Subsea Infrastructure Installation Environment Plan (EP).

Please see our initial consultation email below and attached information for further details.

We would appreciate your feedback by 21 October 2022 to support our planning for the development of the EP.

Woodside Feedback

1.89 Email sent to WWF (13 October 2022)

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Dear Stakeholder

Woodside is sending this email by way of a reminder that the consultation period is closing soon to provide feedback on activities proposed to be managed under the **WA-61-L** and **WA-62-L** Scarborough Subsea Infrastructure Installation Environment Plan (EP).

Please see our initial consultation email below and attached information for further details.

We would appreciate your feedback by 21 October 2022 to support our planning for the development of the EP.

Woodside Feedback

1.90 Email sent to 350A (13 October 2022)

Dear Stakeholder

Woodside is sending this email by way of a reminder that the consultation period is closing soon to provide feedback on activities proposed to be managed under the **WA-61-L** and **WA-62-L** Scarborough Subsea Infrastructure Installation Environment Plan (EP).

Please see our initial consultation email below and attached information for further details.

We would appreciate your feedback by 21 October 2022 to support our planning for the development of the EP.

Woodside Feedback

1.91 Email sent to GAP (13 October 2022)

Dear Stakeholder

Woodside is sending this email by way of a reminder that the consultation period is closing soon to provide feedback on activities proposed to be managed under the WA-61-L and WA-62-L Scarborough Subsea Infrastructure Installation Environment Plan (EP).

Please see our initial consultation email below and attached information for further details.

We would appreciate your feedback by 21 October 2022 to support our planning for the development of the EP.

Woodside Feedback

1.92 Email sent to AMCS (13 October 2022)

Dear Stakeholder

Woodside is sending this email by way of a reminder that the consultation period is closing soon to provide feedback on activities proposed to be managed under the **WA-61-L** and **WA-62-L** Scarborough Subsea Infrastructure Installation Environment Plan (EP).

Please see our initial consultation email below and attached information for further details.

We would appreciate your feedback by 21 October 2022 to support our planning for the development of the EP.

Woodside Feedback

1.93 Email sent to XRWA (13 October 2022)

Dear Stakeholder

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Please see our initial consultation email below and attached information for further details.

We would appreciate your feedback by 21 October 2022 to support our planning for the development of the EP.

Woodside Feedback

1.94 Email sent to SSA (13 October 2022)

Dear Stakeholder

Woodside is sending this email by way of a reminder that the consultation period is closing soon to provide feedback on activities proposed to be managed under the **WA-61-L** and **WA-62-L** Scarborough Subsea Infrastructure Installation Environment Plan (EP).

Please see our initial consultation email below and attached information for further details.

We would appreciate your feedback by 21 October 2022 to support our planning for the development of the EP.

Woodside Feedback

1.95 Email sent to Climate Council (13 October 2022)

Dear Stakeholder

Woodside is sending this email by way of a reminder that the consultation period is closing soon to provide feedback on activities proposed to be managed under the **WA-61-L** and **WA-62-L** Scarborough Subsea Infrastructure Installation Environment Plan (EP).

Please see our initial consultation email below and attached information for further details.

We would appreciate your feedback by 21 October 2022 to support our planning for the development of the EP.

Woodside Feedback

1.96 Email sent to ACCR (13 October 2022)

Dear Stakeholder

Woodside is sending this email by way of a reminder that the consultation period is closing soon to provide feedback on activities proposed to be managed under the **WA-61-L** and **WA-62-L** Scarborough Subsea Infrastructure Installation Environment Plan (EP).

Please see our initial consultation email below and attached information for further details.

We would appreciate your feedback by 21 October 2022 to support our planning for the development of the EP.

1.97 Email sent to Market Forces (13 October 2022)

Dear Stakeholder

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Woodside is sending this email by way of a reminder that the consultation period is closing soon to provide feedback on activities proposed to be managed under the **WA-61-L** and **WA-62-L** Scarborough Subsea Infrastructure Installation Environment Plan (EP).

Please see our initial consultation email below and attached information for further details.

We would appreciate your feedback by 21 October 2022 to support our planning for the development of the EP.

1.98 Email sent to CCWA (13 October 2022)

Dear Stakeholder

Woodside is sending this email by way of a reminder that the consultation period is closing soon to provide feedback on activities proposed to be managed under the WA-61-L and WA-62-L Scarborough Subsea Infrastructure Installation Environment Plan (EP).

Please see our initial consultation email below and attached information for further details.

We would appreciate your feedback by 21 October 2022 to support our planning for the development of the EP.

Woodside Feedback

1.100 Email sent to and Save Our Songlines (13 October 2022)

Dear stakeholder

Woodside is sending this email by way of a reminder that the consultation period is closing soon to provide feedback on activities proposed to be managed under the **WA-61-L** and **WA-62-L** Scarborough Subsea Infrastructure Installation Environment Plan (EP).

Please see our initial consultation email below and attached information for further details.

We would appreciate your feedback by 21 October 2022 to support our planning for the development of the EP.

Woodside Feedback

1.101 Email sent to the University of Western Australia (UWA) (11 November 2022)

Dear

Please be advised that Woodside has submitted the following environment plans to undertake seabed intervention and trunkline installation activities for the proposed Scarborough Project:

- Seabed intervention and trunkline installation within Commonwealth waters which will be managed
 under the <u>Scarborough Seabed Installation Intervention and Trunkline Installation Environment Plan</u>
 (SITI EP) and which has been submitted to NOPSEMA as the Commonwealth regulator for assessment.
- Trunkline installation within State waters which will be managed under the <u>Scarborough Trunkline</u> <u>Installation (State Waters) Environment Plan</u> (State EP) and which has been submitted to DMIRS as the State regulator for assessment.

A Consultation Information Sheet for each of the activities is linked above, which provides background on the proposed activity, including a summary of potential key risk and associated management measures. They are also available on our <u>website</u>.

Woodside is seeking your advice regarding any research activities that UWA may be undertaking that may overlap with our proposed activities.

We would be grateful for your advice and any other feedback UWA may have on the proposed activities by 25 November 2022.

More information on the Scarborough Project can be found here.

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Your feedback and our response will be included in our Environment Plan which will be submitted to NOPSEMA or DMIRS for acceptance in accorvembdance with the *Offshore Petroleum and Greenhouse Gas Storage* (Environment) Regulations 2009 (Cth) or the *Petroleum* (Submerged Lands) (Environment) Regulations 2012.

Please let us know if your feedback for these activities is sensitive and we will make this known to NOPSEMA or DMIRS upon submission of the Environment Plan in order for this information to remain confidential to NOPSEMA or DMIRS.

Regards,

Woodside Feedback

1.102 Email sent to National Energy Resource Australia (NERA) Collaborative Seismic Environment Plan Project (CSEP) (11 November 2022)

Dear

Further to the below correspondence regarding Woodside's Scarborough 4D B1 Marine Seismic Survey, please be advised that Woodside has submitted an Environment Plan (EP) to the National Offshore Petroleum Safety and Environmental Management Authority (NOPSEMA) for the following proposed activities:

- Scarborough Seabed Intervention and Trunkline Installation Environment Plan (SITI EP)
- WA-61-L Scarborough Drilling and Completions (D&C EP)

Woodside has previously submitted Revision 1 of the SITI EP to NOPSEMA. This revision of the EP has been available on the NOPSEMA website since January 2022

(https://info.nopsema.gov.au/environment_plans/575/show_public). Woodside has also previously submitted Revision 0 of the D&C EP to NOPSEMA. This revision of the EP has been available on the NOPSEMA website since November 2021 (https://info.nopsema.gov.au/environment_plans/565/show_public). Woodside is preparing an updated revision of the SITI EP and D&C EP for submission to NOPSEMA. We confirm the activities, location and duration described in these revisions remain the same, with no material changes.

Woodside is also proposing to undertake seabed site surveys and installation of subsea production infrastructure within Permit Areas WA-61-L and WA-62-L, about 374 km west-northwest of Dampier, Western Australia under the WA-61-L and WA-62-L Subsea Infrastructure Installation Environment Plan (Subsea EP). This EP has not yet been submitted to NOPSEMA.

A Consultation Information Sheet for each of the activities is linked above, which provides background on the proposed activity, including a summary of potential key risk and associated management measures. They are also available on our <u>website</u>.

The proposed activities under the SITI EP, D&C EP and Subsea EP are planned to be undertaken within a subset of the activity area for the Scarborough Seismic Survey and may be of interest to you.

Each of these EPs fall under the primary environmental approval of the <u>Scarborough Offshore Project Proposal</u> (OPP) and will be conducted in line with relevant requirements of the OPP. The OPP includes a detailed description of activities and an assessment of impacts; with controls to develop acceptability criteria. It was accepted by NOPSEMA in March 2020 after an extensive public consultation process.

More information on the Scarborough Project can be found here.

Should NERA CESP have feedback on the SITI EP, D&C EP or Subsea EP, please provide your views by 25 November 2022.

Your feedback and our response will be included in our Environment Plan which will be submitted to NOPSEMA for acceptance in accordance with the *Offshore Petroleum and Greenhouse Gas Storage (Environment)* Regulations 2009 (Cth).

Please let us know if your feedback for this activity is sensitive and we will make this known to NOPSEMA upon submission of the Environment Plan in order for this information to remain confidential to NOPSEMA.

Regards,

Woodside Feedback

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1.103 Presentation to Exmouth Community Reference Group (CRG) (17 November 2022)

ENVIRONMENT PLANS

Scarborough

- State and Commonwealth primary environmental approvals for the Scarborough Project secured
- Project and related activity-specific Environment Plans in development / under NOPSEMA assessment

Scarborough 4D B1 Marine Seismic Survey (Cth)

- Submitted for assessment October 2021
- Proposal to conduct a 4D baseline marine seismic survey over the Scarborough field within Commonwealth waters, ~ 214 km north-west of Exmouth

Scarborough Drilling and Completions (Cth)

- Submitted for assessment November 2021
- Proposal for drilling and subsea tree installation activities for eight planned development wells and the potential for a further two additional contingency wells, ~244 km north-northwest of Exmouth

Scarborough Seabed Intervention and Trunkline Installation (Cth)

- Submitted for assessment Dec 2021
- Proposal for seabed intervention and installation activities for the section of the Scarborough Trunkline in Commonwealth waters that runs ~ 430 km from the proposed offshore Scarborough Floating Production Unit (FPU) (~244 km north-northwest of Exmouth) to the existing onshore Pluto LNG facility on the Burrup Peninsula

Scarborough Subsea Infrastructure Installation (Cth)

- In development
- Proposal for visual and gravimetric surveys, plus installation of flowlines, umbilicals, risers, mooring legs, concrete pads and ancillary infrastructure, required for the flow and control of hydrocarbons to the Scarborough FPU, ~244 km north-northwest of Exmouth

PART OF Woodside Energy

. .

1.104 Email sent to an and Save Our Songlines – (2 December 2022)

Dear

Thank you for your correspondence dated 24 November 2022 titled *Scarborough Gas Project Environment Plans – Meeting request.*

Woodside reiterates that it is open to continue consulting with you, receiving feedback and discussing your concerns in relation to Woodside's Scarborough Environment Plans (EPs) – the Scarborough 4D Baseline Marine Seismic Survey (Seismic) EP, the WA-61-L Scarborough Drilling and Completions (D&C) EP, the Scarborough Seabed Intervention and Trunkline Installation (SITI) EP, the Trunkline Installation (State Waters) EP and the WA-61-L and WA-62-L Subsea Infrastructure Installation Environment Plan (Subsea) EP (collectively referred to as the **Scarborough EPs**).

For your assurance, consultation is ongoing and feedback will continue to be accepted throughout the life of the EP, including while it is being prepared, while it is under assessment as well as after acceptance, while the EP remains in force.

Woodside acknowledges your previous correspondence and confirms our previous arrangements to meet and consult that have been ongoing since November 2021. We remain open to continue consulting with you in relation to the Scarborough EPs.

We note your request to reschedule a meeting. We are available to meet with you on any date in December 2022 in Karratha. Can you please confirm if you are available to meet by 9 December 2022. Alternatively, if you would like to propose a different date, please also let us know by 9 December.

To assist you to prepare for the meeting, please see links to relevant Woodside information for the Scarborough EPs below.

The Seismic EP Consultation Information Sheet, which has been available on Woodside's <u>website</u> since
May 2021, invited comments on the proposed activities to be provided before 14 June 2021. Revision 0 of
the EP have been available on the NOPSEMA website since 18 October 2021 and was open for public
comment until 17 November 2021 (https://info.nopsema.gov.au/environment_plans/559/show_public).

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- The D&C EP Consultation Information Sheet, which has been available on Woodside's <u>website</u> since July 2021, invited comments on the proposed activities to be provided before 2 August 2021. Revision 0 of the EP have been available on the NOPSEMA website since November 2021 (https://info.nopsema.gov.au/environment_plans/565/show_public).
- The SITI EP Consultation Information Sheet, which has been available on Woodside's <u>website</u> since August 2021, invited feedback on the proposed activities to be provided before 30 September 2021. Revision 1 of the EP has been available on the NOPSEMA website since 13 January 2022 (https://info.nopsema.gov.au/environment_plans/575/show_public).
- The State Waters EP Consultation Information Sheet, which has been available on Woodside's <u>website</u> since March 2022, invited comments on the proposed activities to be provided before 9 April 2022. The EP summary has been available on the DMIRS website since June 2022 and was updated in September 2022 (https://ace.dmp.wa.gov.au/ACE/Public/PetroleumProposals/ViewPlanSummary?registrationId=112024).
- The Subsea EP Consultation Information Sheet, which has been available on Woodside's <u>website</u> since September 2022, invited comments on the proposed activities to be provided before 21 October 2022. This EP is in development, and we are seeking your feedback to assist in its preparation.

There has been ample time and information available to inform feedback on our proposed Scarborough EPs. Therefore, can you please provide feedback no later than at the proposed meeting in December 2022.

We note your letter dated 24 November 2022 makes reference to arrangements which would enable you to share relevant information such as matters that are restricted to women or men only. Please confirm what arrangements are required to enable you to share this information by 9 December 2022.

Please also note that your previous correspondence has not been received by all intended recipients. To avoid future correspondence being missed, please send future communications to the Woodside Feedback inbox – feedback@woodside.com.au – which will ensure its timely receipt.

We look forward to hearing from you.

Kind regards,

Woodside Feedback

1.105	Email sent to	,	and Save Our	Songlines - (4	January 2023)
Dear	and				

Woodside refers to our email dated 2 December 2022 (below) seeking confirmation of your availability to meet in December to continue consultation with you. We note that we have not received a response from you in relation to that correspondence.

We remain open to meeting with you to discuss ongoing feedback in relation to Woodside's Scarborough Environment Plans (EPs) – the Scarborough 4D Baseline Marine Seismic Survey (Seismic) EP, the WA-61-L Scarborough Drilling and Completions (D&C) EP, the Scarborough Seabed Intervention and Trunkline Installation (SITI) EP, the Trunkline Installation - State Waters (State) EP and the WA-61-L and WA-62-L Subsea Infrastructure Installation Environment Plan (Subsea) EP (collectively referred to as the Scarborough EPs). Woodside is still awaiting confirmation of your availability to meet.

Woodside reiterates that we are open to continue consultation with you. Can you please confirm when in January 2023 you are available to meet?

Kind regards,

Woodside Feedback

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1.106 Woodside Consultation Information Sheet - (updated January 2023)



INFORMATION SHEET

January 2023

WA-61-L AND WA-62-L SUBSEA INFRASTRUCTURE INSTALLATION ENVIRONMENT PLAN

CARNARVON BASIN, NORTH-WEST AUSTRALIA

Proposed activity

Woodside is planning to undertake seabed site surveys and installation of subsea production infrastructure within Permit Areas WA-61-L and WA-62-L, around 374 km west-northwest of Dampier, Western Australia

Proposed activities will include visual pre- and post-installation surveys, and installation of flowlines, umbilicals and risers, which will be required for the flow and control of hydrocarbons and produced water to the Scarborough Floating Production Unit (FPU), Mooring legs and suction piles will also be installed in preparation for the arrival of the FPU.

A gravimentry survey is also planned to be undertaken in Permit. Areas WA-61-L and WA-62-L to support Woodside's knowledge of the Scarborough reservoir.

Project vessels

Proposed survey and installation activities will be performed by up to four dedicated and specialised dynamically positioned activity and support vessels. Details on vessels are included in **Table 1**.



infrastructure are included in Table 2.

Communication with mariners

The Operational Area for activities includes a radius of:

- 1,000 m around location of the outermost concrete pads.
- 1,500 m around location of subsea infrastructure.
- 2,000 m around future location of FPU.

A temporary 500 m exclusion zone will be in place around vessels to manage vessel movements. Other marine users are permitted to use but should take care when entering the Operational Area and remain clear of the exclusion zone.

Assessment

Woodside has undertaken an assessment of the potential risks to the marine environment as well as the potential impacts to relevant persons arising from the planned activities. This assessment considers timing, duration and location of the planned activities.

A number of mitigation and management measures will be implemented and are summarised in **Table 3**. Further details will be provided in the EP, which is being developed to manage proposed activities.

In preparing the EP, our intent is to minimise environmental and social impacts associated with the proposed activities, and we are seeking any interest or comments you may have to inform our decision making.

1 WA-61-L and WA-62-L Subsea Infrastructure Installation Environment Plan

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WA-61-L and WA-62-L Subsea Infrastructure In	
Permit Area	WA-61-L and WA-62-L
Approximate water depth	-900 -1000 m
	 Activities are planned to commence in H2 2023, with activities estimated to be completed in 18 months with activities occurring in multiple campaigns
Commencement date	The individual campaigns comprise: Installation of temporary concrete pads and conduct of the gravimetry baseline survey First campaign for installation of subsea umbilicals, risers, and flowlines FPU mooring pre-lay surveys and suction pile installation Second campaign for installation of subsea umbilicals, risers, and flowline
Approximate estimated duration	Approximately 18 months (cumulative) for the survey and installation activities
Infrastructure	Pre-installation of the following infrastructure: 3 x flowlines 1 x riser base manifold and foundation 13 - 25 x mud mats 7 x in-line structures & 6 x flowline end terminations 9 x umbilical termination assemblies 3 x subsea distribution units/assemblies 16 x umbilicals and jumpers, additional flying leads 1 x trunkline spool and support 20 x mooring legs and 20 x suction piles for FPU Up to 265 concrete pads for future gravimetry surveys femporary installation of the following infrastructure and related activities: 1 x suction pile and leader wire for flowline lay initiation Installation aids (i.e. transponder arrays, frames) Wet-storing of dynamic umbilicals and risers Pre-progress and post-installation surveys Baseline gravimetry survey Pressure and leak testing Contingent activities including debris removal as required, transportation
	equipment to field with tug and barge spread
	Light construction vessels
	Heavy construction vessels
Acces 6	Heavy lift vessels
Vessels	Derrick lay vessel
	Reel-lay vessels
	Survey vessels
	Support vessels
	The Operational Area for activities includes a radius of: 1000 m around location of the outermost concrete pads 1500 m around location of subsea infrastructure 2000 m around future location of FPU
Operational Areas and Exclusion zones	 Temporary 500 m exclusion zone around vessels to manage vessel movements
	 An interactive map showing the location of the proposed activities will be available on the Woodside website and will be updated throughout the proposed activities
Distance to nearest town	 - 244 km north-northwest of Exmouth, ~ 374 km west-northwest of Dampier
	 ~ 77 km north of the Gascoyne Marine Park (Cwlth)
Distance to nearest marine park/nature reserve	 ~ 201 km north-west of Montebello Marine Park (Cwlth)
	 ~180 km north-northwest of Ningaloo Marine Park (Cwlth)

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Table 2 - Summary of proposed installation locations

Structure	Approx. Water Depth (m)	Latitude	Longitude	Permit Area
For installation				
Start of Flowline A and associated infrastructure	-944	19° 55′ 08,55″S	113° 13′ 47.80″E	WA-61-L
End of Flowline A and associated infrastructure	- 914	19° 46'16.45"S	113° 11' 39,00"E	WA-61-L
Start of Flowline B and associated infrastructure	-945	19° 55'12.11"S	113° 13" 45.17"E	WA-61-L
End of Flowline B and associated infrastructure	- 919	19° 52′ 30.84″S	113° 06' 39.90"E	WA-61-L
Start of Flowline C and associated infrastructure	-945	19° 55′14.51″S	113° 13′ 43.94″E	WA-61-L
End of Flowline C and associated infrastructure	- 912	19° 53′ 47.55″S	113° 06′ 54.73″E	WA-61-L
Northern end of mooring array	~ 915	19° 54′ 40,48"S	113° 14′ 31.38″E	WA-61-L
Southern end of mooring array	~ 958	19° 56′ 26.98"S	113° 14′ 28.11"E	WA-61-L
Eastern end of mooring array	- 955	19° 55' 34.48"\$	113° 15′ 26.04″E	WA-61-L
Western end of mooring array	- 948	19° 55′ 32.77″S	113° 13′ 33.29″E	WA-61-L

Environment That May Be Affected (EMBA)

The environment that may be affected (EMBA) is the largest spatial extent where the Subsea Infrastructure Installation Activity could potentially have an environmental consequence (direct or indirect impact). The broadest extent of the EMBA takes into consideration planned and unplanned activities, and for this Environment Plan (EP) is determined by a highly unlikely release of marine diesel to the environment as a result of vessel collision. This is depicted in Figure 2.

The EMBA does not represent the extent of predicted impact of the highly unlikely marine diesel release. Rather, the EMBA represents the merged area of many possible paths a highly unlikely hydrocarbon release could travel depending on the weather and ocean conditions at the time of the release.

This means in the highly unlikely event a hydrocarbon release does occur, the EMBA will not be affected and the specific and minimal part of the EMBA that is affected will only be known at the time of the release.

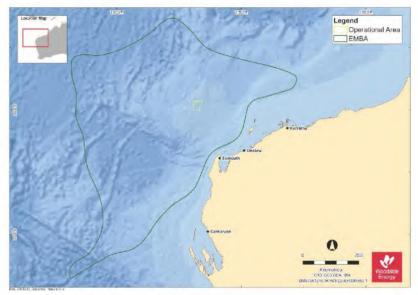


Figure 2 Environment that May Be Affected by the Subsea Infrastructure Installation Activity

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Mitigation and management measures

Woodside has undertaken an assessment to identify potential impacts and risks to the environment arising from the Subsea Infrastructure Installation Activity.

A number of mitigation and management measures for the Subsea Infrastructure Installation Activity are outlined in Table 3.

Table 3 - Summary of key risks and/or impacts and preliminary management measures for the Subsea Infrastructure Installation Activity.

Potential Impact/ Risk	Description of Source of Potential Impact/Risk	Description of Potential Impact/Risk	Preliminary Mitigation and/or Management Measures¹
Planned			
Physical presence - nteractions with other narine users	Several vessel types will be required to complete the activity including a pipelay vessel (PV), heavy lift vessel (HLV), construction vessels, survey vessels and support vessels. Vessels will not usually anchor within the Operational Area. The physical presence and movement of project vessels within the Operational Area has the potential to displace other marine users. Some vessels will be moving continually within the Operational Area. The activity may not be executed as a single campaign or in a consecutive sequence, therefore the presence of vessels may occur at any time during the period of the EP. Helicopters or crew transfer vessels will be used to transport personnel to and from project vessels sels.	Other vessels in the Operational Area, which may include commercial fishing and shipping, and defence, may experience temporary and localised displacement during the activity. The Operational Area is not an area of high commercial fishing activity. Commercial fishing vessels will not be excluded from the entire Operational Area for the total duration of the Subsea Infrastructure Installation Activity. Displacement of fishing activities will be slight, temporary and have no lasting effect. The Operational Area does not overlap with Australian Maritime Safety Authority (AMSA) fairways and therefore impacts to commercial shipping vessels are not expected. Tourism and recreation within the Operational Area are expected to be limited due to the distance offshore and water depths. Given the location, and short-term nature of activities, no impacts are expected.	Vessels adhere to regulatory requirements for navigational safety. Establish temporary 500 m exclusion zones around vessels which are communicated to marine users. Notify relevant government departments, fishing industry representative bodies and licence holders of activities prior to commencement and on completion of activities. Notify the Australian Hydrographic Service (AHS) prior to commencement of the activity to enable them to update maritime charts, so that marine users are aware of the activity. Consult with relevant persons so that they are informed of the proposed activities.
Physical presence – seabed disturbance	Seabed disturbance may result from subsea infrastructure installation, mooring pre-lay, Remotely Operated Vehicle (ROV)/survey activities, and from contingency activities including wet buckle remediation and span rectification.	Seabed disturbance has the potential to result in change in habitat and water quality which may in turn cause injury and/or mortality to fauna. However, impacts from seabed disturbance will be minor as they are expected to be highly localised and temporary in nature. Seabed disturbance is not expected to impact adversely on biologically important behaviours or biologically important habitat, including critical habitat. Displacement of individuals will not result in significant impacts at a population level.	ROV inspection will be undertaken post-installation to confirm installation aids have been removed. Infrastructure will be placed on the seabed within the predefined design footprint using positioning technology to limit seabed disturbance.

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Potential Impact/ Risk	Description of Source of Potential Impact/Risk	Description of Potential Impact/Risk	Preliminary Mitigation and/or Management Measures¹
Light emissions	Project vessels will use external lighting to navigate and conduct safe operations at night. Vessel lighting will also be used to communicate vessels' presence to other marine users (i.e. navigation/warning lights).	Light emissions can affect fauna (such as marine turtles and birds) in two main ways: Behaviour: artificial lighting has the potential to create a constant level of light at night that can override natural levels and cycles. Orientation: if an artificial light source is brighter than a natural source, the artificial light may override natural cues, leading to disorientation. Given the distance from shore, low sensitivity of receptors offshore (i.e., no presence of nesting turtles and low likelihood of hatchling turtles in the offshore environment), light emissions to marine turtles are unlikely to result in more than slight, localised behavioural disturbance to isolated transient individuals, with no lasting effect to the species. As the Operational Area is offshore and away from islands or other emergent features, the presence of seabirds or shorebirds is considered likely to be of a transient nature only. Behavioural disturbance to birds from light is expected to be slight and localised to within the vicinity of vessels and will not seriously disrupt the lifecycle of an ecologically significant proportion of migratory birds.	Lighting limited to minimum required for navigation and safe operational requirements with the exception of emergency events.
Atmospheric emissions and greenhouse gas (GHG) emissions	Atmospheric emissions GHGs will be generated by the project vessels from internal combustion engines and incineration activities.	Emissions from project vessels could result in temporary, localised reductions in air quality in the immediate vicinity of the vessels. Given the offshore location of the Operational Area, and the low volumes of atmospheric emissions which will be generated, biodiversity, ecological integrity, social amenities and human health will not be impacted and the potential impact to air quality is negligible. Given the nature and scale of GHG emissions from vessel fuel usage for this activity, the potential GHG impact and risk from this activity is considered negligible.	 Comply with regulatory requirements for marine air pollution and GHG emissions reporting. Plan vessel operations where practicable to minimise fuel consumption and associated GHG/air emissions. Track and review GHG emissions during the activity to identify further opportunities to improve efficiencies where practicable.

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Risk	Source of Potential Impact/Risk		Management Measures ¹
Routine acoustic emissions	Project vessels will generate noise in the air and underwater due to the operation or thruster engines, propellers and onboard machinery etc. Underwater noise may also be generated by geophysical sources during surveys, positioning equipment (transponders), Dynamic Positioning systems on vessels, and helicopters.	 Elevated underwater noise can affect marine fauna including marine mammals, turtles and fishes in three main ways: By causing direct physical effects, including injury or hearing impairment. Hearing impairment may be temporary or permanent. Through disturbance leading to behavioural changes or displacement from important areas. The occurrence and intensity of disturbance is highly variable and depends on a range of factors relating to the animal and situation. By masking or interfering with other biologically important sounds (including vocal communication, echolocation, signals and sounds produced by predators or prey). Marine fauna associated with the Operational Area will be predominantly pelagic fish species, with the potential for species such as whale sharks, rays, marine turtles and whale species to transit through the Operational Area. There are no marine fauna Biologically important Areas (BlAs) within the Operational Area. Therefore, potential impacts from vessel noise are likely to be restricted to temporary avoidance behaviour to individuals and are therefore 	 Comply with regulatory requirements for interactions with marine fauna to prevent adverse interactions. Collect data on opportunistic sighting of pygmy blue whales to gauge presence and behaviour. Implement adaptive management procedure during vessel activities, to reduce risk to marine fauna.
Routine and non-	Sewage, greywater	considered slight or lower (negligible). The main impact associated with ocean	Routine marine discharges will be
routine discharges - project vessels and installation	and putrescible waste will be discharged from project vessels. Bilge water, deck drainage and brine and cooling water may also be discharged.	disposal of sewage and other organic wastes (i.e., putrescible waste) is eutrophication. Eutrophication occurs when the addition of nutrients, such as nitrates and phosphates, causes adverse changes to the ecosystem including short-term, localised impacts to water quality. Impacts to water quality from planned discharges above a slight or negligible level are not expected because of the minor quantities involved, the expected localised mixing zone and high level of dilution into the open water marine environment of the Operational Area. Similarly, although some marine fauna may transit the Operational Area, the potential for impact remains slight or lower (negligible) due to the localised nature of discharges and rapid dilution.	managed according to regulatory requirements. Chemicals will be selected with the lowest practicable environmental impacts and risks subject to technical constraints and approved through the Woodside chemical assessment process.
Routine and non- routine discharges – subsea infrastructure installation	Small volumes of preservation fluid will be discharged during installation of pre-filled risers, jumpers and spool, and during flood, clean, gauge and leak testing of flowlines, production risers, gas export system and jumpers. Unplanned contingent discharges may occur if wet buckling of flowline occurs.	The discharges are expected to result in slight or lower (negligible) impacts including a temporary decline in water quality and sediment quality around the discharge locations with no accumulation and no lasting effect predicted. Based on the low likelihood of pelagic fish species being exposed to the discharge, the ability of marine fauna to move away from the discharge plume and the potential for impacts to occur from contingent treated seawater discharge, potential impacts are expected to be slight or lower (negligible), localised and short-term with no lasting effect at the population or bioregional scale. Impacts from contingent discharges of	Chemicals will be selected with the lowest practicable environmental impacts and risks subject to technical constraints and approved through the Woodside chemical assessment process. Pre-commissioning procedures developed and followed so that appropriate chemical concentrations are maintained. A flowline installation procedure will be in use to aid in the prevention of flowline wet buckle reducing the likelihood of unplanned contingent discharges from flowline dewatering.
	\$ ASSESSED SECTION SEC	treated seawater on Key Ecological Features (KEFs) are expected to be slight with no lasting effect.	

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Potential Impact/ Risk	Description of Source of Potential Impact/Risk	Description of Potential Impact/Risk	Preliminary Mitigation and/or Management Measures¹
Unplanned			
Unplanned hydrocarbon release – vessel collision	Project vessels will use marine diesel fuel, meaning a vessel collision involving a project vessel or third-party during the activity may result in the release of marine diesel. For a collision to result in the worst-case scenario diesel release, several factors must occur as follows: I dentified causes of vessel interaction must result in a collision. The collision has enough force to penetrate the vessel hull and in the exact location of the fuel tank. The fuel tank must be full or at least of volume which is higher than the point of penetration.	 In the highly unlikely event of a vessel collision causing a release of hydrocarbons, impacts to water quality and marine ecosystems could occur. Modelling of a surface release of marine diesel was undertaken at a location within the Operational Area. Marine diesel is a relatively volatile, non-persistent nature hydrocarbon with up to 35% evaporating within the first 24 hours. Potential impacts across the EMBA were assessed including receptors such as plankton, mangroves, seabirds and migratory shorebirds, saltmarshes, coral, tourism, recreation and cultural heritage (for example). Taking into account receptor sensitivity, the receptors were rated as having a potential consequence level of minor or less (slight or negligible). 	Preventing vessel collision: Comply with regulatory requirements for the prevention of vessel collisions and safety and emergency arrangements. Consult with relevant persons so that other marine users are informed and aware, reducing the likelihood of a collision. Establish temporary exclusion zones around vessels which are communicated to marine users to reduce the likelihood of collision. Develop a management plan for simultaneous operations when working in vicinity of other Woodside operations/activities. Notify relevant government departments, fishing industry representative bodies and licence holders of activities prior to commencement and upon completion of activities. Notify the Australian Hydrographic Service (AHS) prior to commencement of the activity to enable them to update maritime charts, ensuring marine users are aware of the activity. Spill response arrangements: Arrangements supporting the Oil Pollution Emergency Preparation document (OPEP) will be tested so that the OPEP can be implemented as planned. In the event of a spill, emergency response activities will be implemented in line with the OPEP.
Unplanned hydrocarbon release - bunkering	Accidental loss of hydrocarbons to the marine environment during bunkering/ refueling may occur caused by partial or total failure of a bulk transfer hose or fittings due to operational stress or other integrity issues.	A marine diesel surface release is expected to be confined to within several kilometers of the release site and well within the EMBA identified for the vessel collision scenario. This unplanned marine diesel release has the potential to result in changes in water quality and fauna behaviour. Receptors considered in the risk assessment for this unplanned event included marine mammals, marine reptiles, fish, sharks and rays. Taking into account receptor sensitivity, the receptors were rated as having a potential consequence level of minor or less (slight or negligible).	Preventing unplanned hydrocarbon release due to bunkering: Comply with regulatory requirements for the prevention of marine pollution. Liquid chemical and fuel storage areas bunded or secondarily contained when they are not being handled or

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Potential Impact/ Risk Description of Source of Potential Impact/Risk Description of Potential Impact/Risk Preliminary Mitigation and/or Management Measures¹ Unplanned discharge Unplanned discharges of non-proces nply with regulatory requirements chemicals and hydrocarbons may decrease the water quality in the immediate vicinity of the release. Only small volumes (<50 L) deck and subsea spills unplanned loss for the prevention of marine pollution. of liquid chemical Liquid chemical and fuel storage areas or fuels from equipment/storage on deck or subsea are anticipated, resulting in very short-term impacts to water quality and limited to the are bunded or secondarily contained when they are not being handled/ moved temporarily. survey/installation equipment. immediate release location. Spill kits positioned in high-risk As a result of a change in water quality, locations around the vessel (nea further impacts to receptors may occur, however impacts to marine fauna are expected to be limited to temporary potential spill points such as transfer irritation of sensitive membranes to individuals and are considered slight or less Chemicals will be selected with the lowest practicable environmental impacts and risks subject to technical (negligible). constraints and approved through the Woodside chemical assessment process. Below-deck storage of hydrocarbons and chemicals where practicable. Unplanned discharge Accidental, The potential impacts of hazardous or Comply with regulatory requirements non-hazardous solid wastes and equipment accidentally discharged to the marine environment include contamination of the - loss of solid unplanned loss for the prevention of marine pollution. hazardous/ non of hazardous or and handling of hazardous wastes. non-hazardous solid hazardous solid waste Implement waste management environment as well as secondary impacts relating to potential contact of marine fauna / equipment wastes/equipment procedures which provide for safe handling and transportation. to the marine environment may occur if dropped or with wastes. The temporary or permanent loss of waste materials/equipment into the segregation and storage and appropriate classification of waste marine environment is not likely to have a significant environmental impact, based on blown overboard. generated. the location of the Operational Area, the Solid waste/equipment dropped to the types, size and frequency of wastes that marine environment will be recovered could occur and species present. where safe and practicable to do so Where retrieval is not practicable and/ or safe, material items (property) that are lost to the marine environment will undergo an impact assessment and will be added to the inventory for the title. Unplanned seabed disturbance may result in localised changes to water and sediment Subsea lifts of equipment will occur Unplanned seabed Accidental, unplanned loss of overboard in a designated deployment zone to reduce the risk of dropped objects in proximity to existing subsea disturbance quality or a localised temporary impact to benthic communities and is therefore infrastructure during installation from the installation vessels. considered to present a negligible risk. infrastructure that could potentially cause damage/leaks. Dropped objects may also result Potential impacts to KEFs which intersect the Operational Area of the activity are Installation vessel inductions include in unplanned disturbance of considered to be minor as they would be limited to the footprint of a dropped object resulting in potential highly localised and control measures for dropped object prevention benthic habitat temporary change in habitat Dropped objects to be recovered and relocated where safe and practicable to do so. Where retrieval is not practicable and/ or safe, material items (property) lost to the marine environment will undergo an impact assessment and will be added to the inventory for the title.

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Risk

Description of Source of Potential

Description of Potential Impact/Risk

Preliminary Mitigation and/or Management Measures¹

Unplanned interaction with marine fauna

- Vessel movements have the potential to result in collisions between the vessel (hull and propellers) and marine fauna.
- The factors contributing to the frequency and severity of impacts due to collisions vary greatly due to vessel type, vessel operation (specific activity, speed), physical environment (e.g., water depth) and the type of animal potentially present and their behaviours.
- The risk of vessel collision with marine mammals is present year-round but is seasonally elevated for species such as humpback whales and pygmy blue whales during migration periods and within migration BIAs. The Operational Area does not overlap with cetacean BIAs or critical habitat. Given this, and the short duration of activities within the Operational Area, and the slow speeds at which project vessels operate, collisions with cetaceans are considered highly unlikely.
- It is expected marine turtles will respond to vessel presence by avoiding the immediate vicinity of vessels, and combined with low vessel speed, this will reduce the likelihood of a vessel-turtle collision or entrainment during dredging activities.
- Comply with regulatory requirements for interactions with marine fauna to reduce the likelihood of a collision occurring.

Accidental introduction of invasive marine species (IMS)

- Vessels transiting to the Operational Area may be subject to marine fouling whereby organisms attach to the vessel hull.
- IMS could be present as biofouling on the vessel hull or on immersible equipment, ROV, etc.) and could be translocated to the Operational Area and transferred directly to the seafloor or subsea structures where they could establish.
- Organisms can also be drawn into ballast tanks during onboarding of ballast water.

- It is not credible for IMS to be introduced and establish on the seabed or subsea structures in the Operational Area as these deep waters are not conducive to the settlement and establishment of IMS.
- There ispotential for the transfer of IMS between the project vessels, albeit remote
- Ballast water and biofouling will be managed according to regulatory requirements, including the Australian Ballast Water Management Requirements, and the Australian Biofouling Management Requirements, as applicable.
- Woodside's IMS risk assessment process will be applied to project vessels and immersible equipment that enter the Operational Area.

Feedback

If you would like to comment on the proposed activities outlined in this information sheet, or would like additional information, please contact Woodside before 17 February 2023 via:

E: Feedback@woodside.com.au Toll free: 1800 442 977

You can subscribe on our website to receive Consultation Information Sheets for proposed activities: www.woodside.com/sustainability/consultation-activities

Please note that stakeholder feedback will be communicated to the National Offshore Petroleum Safety and Environmental Management Authority (NOPSEMA) as required under legislation. Woodside will

communicate any material changes to the proposed activity to affected stakeholders as they arise.

Please note that your feedback and our response will be included in our Environment Plan for the proposed activity, which will be submitted to NOPSEMA for acceptance in accordance with the Offshore Petroleum and Greenhouse Gas Storage (Environment) Regulations 2009 (Cth).

Please let us know if your feedback for this activity is sensitive and we will make this known to NOPSEMA upon submission of the Environment Plan in order for this information to remain confidential to NOPSEMA.

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1.107 Simplified Consultation Information Sheet (January 2023)



SCARBOROUGH SUBSEA INFRASTRUCTURE INSTALLATION

This is a summary of the activity in plain English. More detailed information is included in the WA-61-L and WA-62-L Subsea Infrastructure Installation Environment Plan Information Sheet.

Overview

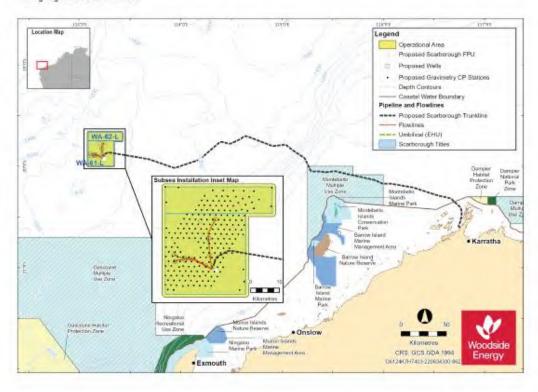
Woodside plans to install pipes and other equipment on the sea floor so gas can be carried to a proposed Floating Production Unit (FPU). This activity is called Subsea Infrastructure Installation. The activity will be divided into the following parts:

- Gravimetry Survey This involves the use of equipment called a
 gravity metre that records information about the gas field beneath
 the sea floor.
- Subsea Equipment Installation Placement of subsea equipment on the sea floor. The installation of this equipment will be carried out using large construction vessels.

This work will take place approximately 380km north-west of Karratha, at a water depth of approximately 950m.

Woodside is planning to start the Subsea Infrastructure Installation work upon the acceptance of the Environment Plan, and the aim is to start work around the second half of 2023. The activity is expected to take up to around 18 months to complete.

A map of the work area is provided below.



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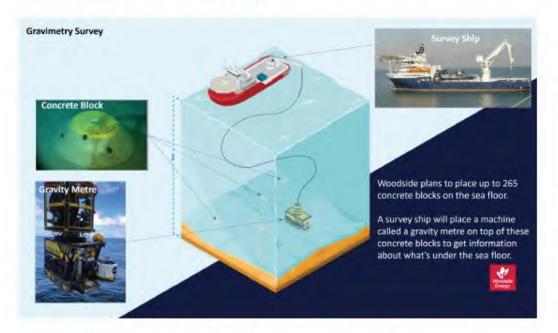
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Work Method

Gravimetry Survey - The gravimetry survey involves placing up to 265 concrete blocks on the seabed. The concrete blocks shown in the image below, are about 1.6m wide. An underwater remotely operated vehicle (ROV) will be used to put a machine called a gravity metre on top of the concrete blocks. The gravity metre rests on the block long enough

for a measurement to be taken, and then the ROV picks up the gravity metre and moves it to the next block. This survey is carried out to monitor pressure and other changes in the gas field under the sea floor. An illustration of this is below.



Subsea Equipment Installation - The equipment that Woodside will install on the sea floor includes:

- Chains connected to large anchors that will hold the proposed FPU in place
- Pipes called risers that take gas from the proposed FPU to the pipeline (called a trunkline) that goes to the Pluto Gas Plant
- Large cables called umbilicals that will provide power and communication to the equipment on the sea floor
- Pipes called flowlines that will transport the gas to the proposed FPU
- Support structures that will hold the pipes and other equipment in place
- Other cables and equipment to allow gas wells to operate

Further details and quantities of the equipment being installed can be found in the detailed Information Sheet. This equipment will be installed by large construction vessels.

Other equipment such as Christmas Trees (which control the flow of gas from the wells), the trunkline and the proposed FPU will be installed under separate work programs.

An illustration of this work is shown below

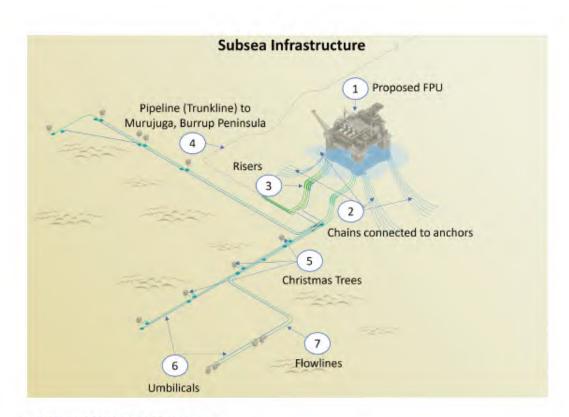
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Environmental Impacts and Management

This work program includes Planned Activities but may also result in Unplanned Activities. Both Planned and Unplanned Activities may impact the environment. Woodside manages the work program to reduce impacts and risks to as low as practical.

Planned Activities are activities that Woodside knows will happen as part of this work program. For example, Planned Activities will include other marine users being temporarily stopped from accessing the work area, and the marine vessels used for the work may generate underwater noise, light emissions, atmospheric emissions, and routine discharges (such as sewage, waste, and deck drainage), and other authorised waste. Installation of the concrete pads and subsea equipment may also result in seabed disturbance.

Unplanned Activities are not planned as part of the work program, but may be the result of an accident, incident, or emergency situation. It is highly unlikely that there will be an Unplanned Activity. Unplanned Activities might include a spill of fuel or oil from a vessel collision, a spill on the deck of a vessel (such as during refuelling), unplanned seabed disturbance, accidental collision with marine animals, waste entering the environment and accidental introduction of invasive species from outside the region.

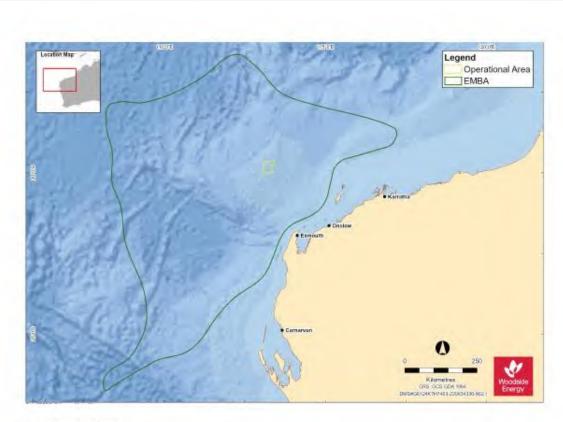
A table showing all planned and unplanned activities, potential impacts, and management measures for each is included in the attached Information Sheet, Table 3.

The total area over which unplanned events could have environmental impacts is shown in the map below. This is referred to as the environment that may be affected (EMBA). The location in which the Subsea Infrastructure Installation activity will occur, known as the Operational Area, is also shown on the map below. In the highly unlikely event such as a fuel spill from a vessel collision, the entire EMBA will not be affected. The part of the EMBA that is affected will only be known at the time of the event.

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Providing feedback

If you have an interest in the area of the "environment that may be affected" (EMBA) by this work program and would like more information or have any concerns, you can tell Woodside by calling 1800 442 977 or sending an email to feedback@woodside.com.au. Please contact Woodside before 20th February 2023 so your questions or concerns can be considered during the environmental approval process.

If you would prefer to speak to the government directly, they can be contacted on +61 (0)8 6188 8700 or send an email to communications@nopsema.gov.au.

Conclusion

Woodside produces energy that Western Australia, Australia, and the world needs. Woodside has made this energy from its oil and gas projects in Western Australia for over 35 years safely, reliably, and without any major environmental incident. Woodside is very proud of this legacy.

There are always potential risks with projects like this. Woodside has carefully planned this work program so that the risk of environmental impact is reduced to as low as reasonably practical and of an acceptable level. There are also strict government laws in place to protect the environment. Woodside complies with these laws and has systems in place to keep following these laws and rules for each project it undertakes.

If you would like information about Woodside's work to study and care for the environment, you can find it at https://www.woodside.com/sustainability/environment.

Further Information

You can find the details Consultation Information Sheet for proposed activity on our website: https://www.woodside.com/sustainability/ consultation-activities.

www.woodside.com



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1.108 Simplified Overview Consultation Information Sheet (January 2023)



SCARBOROUGH PROJECT

Introduction

This is a summary of some of the work Woodside will be doing for its Scarborough Project. Most of this work will take place in the ocean approximately 375km northwest of Karratha.

Woodside

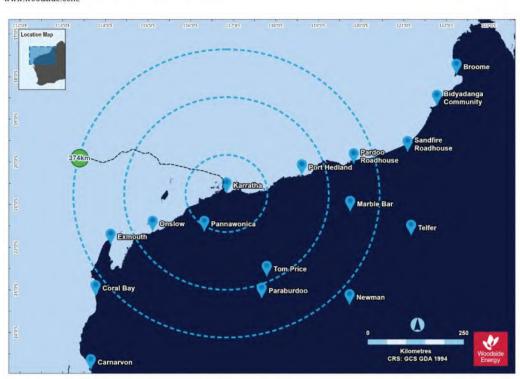
Woodside has been operating safely for over 35 years, delivering gas and oil to customers in Australia and around the world safely, reliably, and without any major environmental incident. Woodside is very proud of this leacy.

You can find more information about Woodside on our website: www.woodside.com.

Scarborough Project

Scarborough is a gas field under the sea floor about 375 km northwest of Karratha. Woodside plans to bring this gas from Scarborough to Murujuga (the Burrup Peninsula) through a pipeline (called a trunkline) that is approximately 430km long, to Woodside's Pluto gas plant.

The map below shows where the Scarborough project, including the trunkline, is located.



You can find more information about the Scarborough project on Woodside's website:

https://www.woodside.com/what-we-do/growth-projects/scarborough

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Work for the Scarborough Project

This is an overview of some of the programs which make up the Scarborough project. Woodside is planning to commence work on these programs once the environmental plans have been approved. There will be further work programs that will form part of the Scarborough project.

The current work programs are:

- Laying the pipeline from the Scarborough gas field to the shore at Murujuga (Burrup Peninsula). The pipeline (called a trunkline) is approximately 430 kilometres long. This is called **Seabed** Intervention and Trunkline Installation.
- 2. A survey of what is underneath the seafloor. These are called **Seismic Surveys.**
- Drilling and installing between 8 and 10 subsea gas wells on the sea floor to extract gas from the Scarborough gas field. This is called Drilling and Completions.
- Installing pipes and other equipment on the sea floor so gas can be carried to a proposed Floating Production Unit (FPU). This is called Subsea Infrastructure Installation.

Information sheets for these work programs are available on our

https://www.woodside.com/sustainability/consultation-activities.

www.woodside.com



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1.109 Missed number

1.110 Email sent to Ngarluma Aboriginal Corporation (NAC) (20 January 2023)

Good morning

In follow up to our phone conversation, please find attached, and following, information in relation to Woodside's proposed Scarborough gas project.

The Scarborough gas field is located in the Carnarvon Basin, approximately 375 km off the coast of Western Australia. Woodside plans to bring gas from Scarborough to Murujuga (the Burrup Peninsula) through a pipeline that is approximately 430km long, to Woodside's Pluto gas plant. The development of the Scarborough project involves different work programs. An overview of those work programs is included in the attached documents.

In preparation for this work, Woodside has undertaken an assessment to identify potential impacts and risks to the marine environment arising from both planned and unplanned activities. Mitigation and management measures have been developed for each of the risks identified and will be outlined in the Environmental Plan (EP).

We have a number of detailed Consultation Information Sheets, available on our website, which provide further background on the proposed approaches, including a summary of potential key risks and associated management measures for the primary activity and alternative options.

Woodside is seeking to understand the nature of the interests that Ngarluma Aboriginal Corporation (NAC) and its members may have in the 'environment that may be affected' (EMBA) by this activity. The EMBA is the total area over which unplanned events could have environmental impacts, as set out in the Summary Information sheet attached.

If you would like to speak with us, please let us know by **20 February 2023**. Please also let us know how you would like us to engage with you as soon as possible.

If there is any support or specific information that NAC requires to prepare for the meeting, please let me know. In the meantime, I have attached for NAC's review:

- 1. A Summary Overview of the Scarborough project; and
- 2. Respective Summary Information sheets

NAC can also provide feedback directly to me on the details below, to Feedback@woodside.com.au or by calling 1800 442 977, or directly to the Australian Government's National Offshore Petroleum Safety and Environmental Management Authority to communications@nopsema.gov.au or (08) 6188 8700.

Please feel free to forward this email and, the attached documents to NAC members as required. Woodside would be pleased to speak with NAC members in addition to the NAC Board / office holders.

We look forward to hearing from you.

Kind regards

1.111 Email sent to Nganhurra Thanardi Garrbu Aboriginal Corporation (NTGAC) – 20 January 2023 Good afternoon

Thank you again for your time to speak with Woodside staff over the last couple of weeks and for making arrangements for Woodside and Nganhurra Thanardi Garrbu Aboriginal Corporation RNTBC (NTGAC) to meet on 16 February. As discussed, please see attached information in relation to Woodside's proposed Scarborough gas project.

The Scarborough gas field is located in the Carnarvon Basin, approximately 375 km off the coast of Western Australia. Woodside plans to bring gas from Scarborough to Murujuga (the Burrup Peninsula) through a pipeline

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that is approximately 430km long, to Woodside's Pluto gas plant. The development of the Scarborough project involves different work programs. An overview of those work programs is included in the attached documents.

In preparation for this work, Woodside has undertaken an assessment to identify potential impacts and risks to the marine environment arising from both planned and unplanned activities. Mitigation and management measures have been developed for each of the risks identified and will be outlined in the Environmental Plan (EP).

We have a number of detailed Consultation Information Sheets, available on our website, which provide further background on the proposed approaches, including a summary of potential key risks and associated management measures for the primary activity and alternative options.

Woodside is seeking to understand the nature of the interests that the NTGAC and its members may have in the 'environment that may be affected' (EMBA) by this activity. The EMBA is the total area over which unplanned events could have environmental impacts, as set out in the Summary Information sheet attached.

If there is any support or specific information that NTGAC requires to prepare for a meeting, please let me know. We are also happy to discuss appropriate mechanisms for consultation. In the meantime, I have attached for NTGAC's review:

- A Summary Overview of the Scarborough project; and
- Respective Summary Information sheets

NTGAC can also provide feedback directly to me on the details below, to Feedback@woodside.com.au or by calling 1800 442 977, or directly to the Australian Government's National Offshore Petroleum Safety and Environmental Management Authority to communications@nopsema.gov.au or (08) 6188 8700.

Please feel free to forward this email and, the attached documents to NTGAC members as required. Woodside would be pleased to speak with NTGAC members in addition to the NTGAC Board / office holders.

We look forward to hearing from you.

Kind regards

1.112 Email sent to Malgana Aboriginal Corporation – 20 January 2023 Good afternoon and and address that was listed on ORIC so am resending to info@malgana.org.au. Please see email below. Please feel free to reach out to me or Brad Rowe (copied) any time.

Kind regards

Good afternoon and and

Please find attached information in relation to Woodside's proposed Scarborough gas project. The Scarborough gas field is located in the Carnarvon Basin, approximately 375 km off the coast of Western Australia. Woodside plans to bring gas from Scarborough to Murujuga (the Burrup Peninsula) through a pipeline that is approximately 430km long, to Woodside's Pluto gas plant. The development of the Scarborough project involves different work programs. An overview of those work programs is included in the attached documents.

In preparation for this work, Woodside has undertaken an assessment to identify potential impacts and risks to the marine environment arising from both planned and unplanned activities. Mitigation and management measures have been developed for each of the risks identified and will be outlined in the Environmental Plan (EP).

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We have a number of detailed Consultation Information Sheets, available on our website, which provide further background on the proposed approaches, including a summary of potential key risks and associated management measures for the primary activity and alternative options.

Woodside is seeking to understand the nature of the interests that Malgana Aboriginal Corporation (MAC) and its members may have in the 'environment that may be affected' (EMBA) by this activity. The EMBA is the total area over which unplanned events could have environmental impacts, as set out in the Summary Information sheet attached.

If you would like to speak with us, please let us know by **20 February 2023**. Please also let us know how you would like us to engage with you as soon as possible.

If there is any support or specific information that MAC requires to prepare for a meeting, please let me know. In the meantime, I have attached for MAC's review:

- 2. A Summary Overview of the Scarborough project; and
- 3. Respective Summary Information sheets

I have copied in who will reach out to you next week to follow up. MAC can also provide feedback directly to or me on the details below, to Feedback@woodside.com.au or by calling 1800 442 977, or directly to the Australian Government's National Offshore Petroleum Safety and Environmental Management Authority to communications@nopsema.gov.au or (08) 6188 8700.

Please feel free to forward this email and, the attached documents to MAC members as required. Woodside would be pleased to speak with MAC members in addition to the MAC Board / office holders.

We look forward to hearing from you.

Kind regards

1.113 Email sent to Nanda Aboriginal Corporation via Yamatji Marlpa Aboriginal Corporation (YMAC) – 20 January 2023

Good afternoon

I hope this email finds you well.

Please find attached information in relation to Woodside's proposed Scarborough gas project. The Scarborough gas field is located in the Carnarvon Basin, approximately 375 km off the coast of Western Australia. Woodside plans to bring gas from Scarborough to Murujuga (the Burrup Peninsula) through a pipeline that is approximately 430km long, to Woodside's Pluto gas plant. The development of the Scarborough project involves different work programs. An overview of those work programs is included in the attached documents.

In preparation for this work, Woodside has undertaken an assessment to identify potential impacts and risks to the marine environment arising from both planned and unplanned activities. Mitigation and management measures have been developed for each of the risks identified and will be outlined in the Environmental Plan (EP).

We have a number of detailed Consultation Information Sheets, available on our website, which provide further background on the proposed approaches, including a summary of potential key risks and associated management measures for the primary activity and alternative options.

Woodside is seeking to understand the nature of the interests that Nanda Aboriginal Corporation (NAC) and its members may have in the 'environment that may be affected' (EMBA) by this activity. The EMBA is the total area over which unplanned events could have environmental impacts, as set out in the Summary Information sheet attached.

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If you would like to speak with us, please let us know by **20 February 2023**. Please also let us know how you would like us to engage with you as soon as possible.

If there is any support or specific information that NAC requires to prepare for a meeting, please let me know. In the meantime, I have attached for NAC's review:

- 3. A Summary Overview of the Scarborough project; and
- 4. Respective Summary Information sheets

I have copied in who will reach out to you next week to follow up. NAC can also provide feedback directly to or me on the details below, to Feedback@woodside.com.au or by calling 1800 442 977, or directly to the Australian Government's National Offshore Petroleum Safety and Environmental Management Authority to communications@nopsema.gov.au or (08) 6188 8700.

Please feel free to forward this email and, the attached documents to NAC members as required. Woodside would be pleased to speak with NAC members in addition to the NAC Board / office holders.

We look forward to hearing from you.

Kind regards

1.115 Email sent to Wirrawandi Aboriginal Corporation (WAC) - 20 January 2023

Good morning

In follow up to previous email correspondence from my colleague , please find attached, and following, information in relation to Woodside's proposed Scarborough gas project.

The Scarborough gas field is located in the Carnarvon Basin, approximately 375 km off the coast of Western Australia. Woodside plans to bring gas from Scarborough to Murujuga (the Burrup Peninsula) through a pipeline that is approximately 430km long, to Woodside's Pluto gas plant. The development of the Scarborough project involves different work programs. An overview of those work programs is included in the attached documents.

In preparation for this work, Woodside has undertaken an assessment to identify potential impacts and risks to the marine environment arising from both planned and unplanned activities. Mitigation and management measures have been developed for each of the risks identified and will be outlined in the Environmental Plan (EP).

We have a number of detailed Consultation Information Sheets, available on <u>our website</u>, which provide further background on the proposed approaches, including a summary of potential key risks and associated management measures for the primary activity and alternative options.

Woodside is seeking to understand the nature of the interests that Wirrawandi Aboriginal Corporation (Wirrawandi) and its members may have in the 'environment that may be affected' (EMBA) by this activity. The EMBA is the total area over which unplanned events could have environmental impacts, as set out in the Summary Information sheet attached.

I understand you would like to speak with us, on this and in relation to the Nganhurra Riser Turret Mooring (RTM) information that has already shared. I will reach out to you by phone, on **Monday 23 January** to discuss where you, and your board members would like to meet and to discuss the soonest possible date/time to do so.

If there is any support or specific information that Wirrawandi requires to prepare for the meeting, please let me know. In the meantime, I have attached for Wirrawandi's review:

- A Summary Overview of the Scarborough project; and
- Respective Summary Information sheets

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WAC can also provide feedback directly to me on the details below, to Feedback@woodside.com.au or by calling 1800 442 977, or directly to the Australian Government's National Offshore Petroleum Safety and Environmental Management Authority to communications@nopsema.gov.au or (08) 6188 8700.

Please feel free to forward this email and, the attached documents to Wirrawandi members as required. Woodside would be pleased to speak with Wirrawandi members in addition to the WAC Board / office holders.

I look forward to connecting with you on Monday, to arrange a meeting and to discuss the logistics of such.

Kind regards

1.116 Email sent to Yinggarda Aboriginal Corporation (YAC) via Yamatji Marlpa Aboriginal Corporation (YMAC) – 20 January 2023

Good afternoon

Further to recent communications, please find attached information in relation to Woodside's proposed Scarborough gas project.

The Scarborough gas field is located in the Carnarvon Basin, approximately 375 km off the coast of Western Australia. Woodside plans to bring gas from Scarborough to Murujuga (the Burrup Peninsula) through a pipeline that is approximately 430km long, to Woodside's Pluto gas plant. The development of the Scarborough project involves different work programs. An overview of those work programs is included in the attached documents.

In preparation for this work, Woodside has undertaken an assessment to identify potential impacts and risks to the marine environment arising from both planned and unplanned activities. Mitigation and management measures have been developed for each of the risks identified and will be outlined in the Environmental Plan (EP).

We have a number of detailed Consultation Information Sheets, available on <u>our website</u>, which provide further background on the proposed approaches, including a summary of potential key risks and associated management measures for the primary activity and alternative options.

Woodside is seeking to understand the nature of the interests that Yinggarda Aboriginal Corporation (YAC) and its members may have in the 'environment that may be affected' (EMBA) by this activity. The EMBA is the total area over which unplanned events could have environmental impacts, as set out in the Summary Information sheet attached.

If you would like to speak with us, please let us know by **20 February 2023**. Please also let us know how you would like us to engage with you as soon as possible.

If there is any support or specific information that YAC requires to prepare for a meeting, please let me know. In the meantime. I have attached for YAC's review:

- · A Summary Overview of the Scarborough project; and
- Respective Summary Information sheets

YAC can also provide feedback directly to me on the details below, to Feedback@woodside.com.au or by calling 1800 442 977, or directly to the Australian Government's National Offshore Petroleum Safety and Environmental Management Authority to communications@nopsema.gov.au or (08) 6188 8700.

Please feel free to forward this email and, the attached documents to YAC members as required. Woodside would be pleased to speak with YAC members in addition to the YAC Board / office holders.

We look forward to hearing from you.

Kind regards

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1.117 Email sent to Yindjibarndi Aboriginal Corporation – 20 January 2023

Good morning

In follow up to a telephone conversation with my colleague n on 6 January, and her subsequent email correspondence regarding the Nganhurra Riser Turret Mooring (RTM), North West Cape on 18 January, please find attached, and following, information in relation to Woodside's proposed Scarborough gas project.

The Scarborough gas field is located in the Carnarvon Basin, approximately 375 km off the coast of Western Australia. Woodside plans to bring gas from Scarborough to Murujuga (the Burrup Peninsula) through a pipeline that is approximately 430km long, to Woodside's Pluto gas plant. The development of the Scarborough project involves different work programs. An overview of those work programs is included in the attached documents.

In preparation for this work, Woodside has undertaken an assessment to identify potential impacts and risks to the marine environment arising from both planned and unplanned activities. Mitigation and management measures have been developed for each of the risks identified and will be outlined in the Environmental Plan (EP).

We have a number of detailed Consultation Information Sheets, available on <u>our website</u>, which provide further background on the proposed approaches, including a summary of potential key risks and associated management measures for the primary activity and alternative options.

Woodside is seeking to understand the nature of the interests that Yindjibarndi Aboriginal Corporation (YAC) and its members may have in the 'environment that may be affected' (EMBA) by this activity. The EMBA is the total area over which unplanned events could have environmental impacts, as set out in the Summary Information sheet attached.

If you would like to speak with us, please let us know by **20 February 2023**. Please also let us know how you would like us to engage with you as soon as possible.

If there is any support or specific information that YAC requires to prepare for a meeting, please let me know. In the meantime, I have attached for YAC's review:

- 1. A Summary Overview of the Scarborough project; and
- 2. Respective Summary Information sheets

YAC can also provide feedback directly to me on the details below, to Feedback@woodside.com.au or by calling 1800 442 977, or directly to the Australian Government's National Offshore Petroleum Safety and Environmental Management Authority to communications@nopsema.gov.au or (08) 6188 8700.

Please feel free to forward this email and, the attached documents to YAC members as required. Woodside would be pleased to speak with YAC members in addition to the YAC Board / office holders.

We look forward to hearing from you.

Kind regards

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1.118 Email sent to Chevron Australia and Osaka Gas Gorgon, Tokyo Gas Gorgon, JERA Gorgon via Chevron Australia – 27 January 2023

Dear and

Woodside has submitted Environment Plans (EPs) to undertake the following activities in Commonwealth waters for the Scarborough development:

- seabed intervention and trunkline installation activities for the section of the Trunkline in Commonwealth waters under the Scarborough Seabed Intervention and Trunkline Installation EP (SITI EP);
- drilling and subsea tree installation activities for eight planned development wells and the potential for a
 further two additional contingency wells under the WA-61-L Scarborough Drilling and Completions EP (D&C
 EP);
- 4D baseline marine seismic survey (MSS) activities over the Scarborough and Jupiter field under the Scarborough 4D Baseline Marine Seismic Survey EP (Seismic EP); and
- seabed site surveys and installation of subsea production infrastructure under the Subsea Infrastructure Installation EP (Subsea EP).

Updated consultation Information Sheets are attached, which provide additional background on the proposed activities, including summaries of potential key impacts and risks, and associated management measures. These are also available on our website.

As we are inviting consultation with you on each of the EPs above, for ease of reference, we have attached the information in this one email. In an effort to simplify feedback, we have also included a feedback template (Appendix A) which you may wish to use to provide your feedback specific to the proposed EPs.

Woodside has previously submitted Revision 1 of the **SITI EP** to NOPSEMA which has been available on the NOPSEMA website since January 2022 (https://info.nopsema.gov.au/environment_plans/575/show_public). Revision 0 of the **D&C EP** has been available on the NOPSEMA website since November 2021 (https://info.nopsema.gov.au/environment_plans/565/show_public). Revision 0 of the **Seismic EP** has been available on the NOPSEMA website since 18 October 2021 (https://info.nopsema.gov.au/environment_plans/559/show_public).

Woodside is preparing to submit a further revision of the SITI EP, D&C EP and Seismic EP to NOPSEMA with recent changes. We confirm the activities, location and duration described in these revisions remain the same, with no material changes. The Subsea EP has not yet been submitted to NOPSEMA.

The SITI EP, D&C EP and Subsea EP fall under the primary environmental approval of the <u>Scarborough Offshore Project Proposal</u> (OPP). The OPP includes a detailed description of activities, an assessment of the potential impacts and risks and includes management measures to demonstrate that the potential impacts and risks will be of an acceptable level. It was accepted by NOPSEMA in March 2020 after an extensive public consultation process.

More information on the Scarborough Project can be found here.

If you have feedback specific to each of the proposed activities described under the relevant EPs, please respond to Woodside at Feedback@woodside.com.au or 1800 442 977 by **26 February 2023**.

We would be grateful if you could please forward this consultation information to your Joint Venture participants Osaka Gas Gorgon, Tokyo Gas Gorgon and JERA Gorgon for feedback.

Activity:

	SITI EP	D&C EP	Seismic EP	Subsea EP
Summary:		activities in Commonwealth waters, including drilling and subsea tree installation		Seabed site surveys and installation of subsea production infrastructure. Activities include visual pre- and post-installation

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	pipeline (Trunkline) that runs approximately 430 km from the from the proposed offshore Scarborough Floating Production Unit (FPU) to the existing onshore Pluto LNG facility. This EP covers activities for the approximately 400 km section of the Trunkline in Commonwealth waters. A separate EP covers activities in State waters.	development wells and the potential for a further two contingency wells. Woodside may need to intervene, workover or re-drill the wells. Subsea inspection, monitoring, maintenance and subsea infrastructure repair activities may also be undertaken.	future 'time lapse' reservoir surveillance (or technically termed 4D baseline survey).	surveys, and installation of flowlines, umbilicals and risers and ancillary infrastructure, required for the flow and control of hydrocarbons and produced water to the Scarborough Floating Production Unit (FPU). Mooring legs and suction piles will also be installed and a gravimentry survey is also planned.
Location:	Activities run from the Scarborough FPU in WA-61-L in Commonwealth waters, about 374 km west-northwest of Dampier, to the State waters boundary at the northern extent of the Dampier Archipelago.	Activities are located in Permit Area WA-61-L in Commonwealth waters, about 374 km west-northwest of Dampier, Western Australia. Approximate development well locations for the eight planned wells are provided in Table 2 of the attached D&C EP Consultation Information Sheet.	The seismic survey will cover the Scarborough and Jupiter fields within Commonwealth waters, located in the Exmouth Plateau, approximately 214 km north west of Exmouth, Western Australia.	Activities are located in permit Areas WA-61-L and WA-62-L, around 374 km west-northwest of Dampier, Western Australia.
Approx. Water Depth (m):	~ 32 m – 1400 m	~ 900 m – 955 m	~ 800 m – 1,150 m	~ 900 m – 1000 m
Earliest commencement date:	Seabed intervention activities: Mid 2023 pending approvals, vessel availability and weather constraints. Trunkline installation activities: Q4 2023 pending successful completion approvals, vessel availability and weather constraints.	Activities planned to commence in H2 2023 pending approvals, vessel availability and weather constraints.	Activities planned to commence in H1 2023 pending approvals, vessel availability and weather constraints.	Activities planned to commence in H2 2023 (and estimated to be completed in 18 months with activities occurring in multiple campaigns).
Estimated duration:	~24 months across multiple campaigns	~50 – 60 days per well	~55 – 70 days	~18 months (cumulative) for the survey and installation activities
Distance from Operational Area to nearest town	The closest Commonwealth section of the trunkline on the State waters boundary is~32 km north-west of Dampier.	~244 km north-northwest of Exmouth, 374 km west-northwest of Dampier.	~214 km north-west of Exmouth.	~ 244 km north-northwest of Exmouth, ~ 374 km west-northwest of Dampier.
Distance from Operational Area to nearest marine park	The trunkline corridor runs through the Montebello Marine Park Multiple Use Zone (Cwth), close to the northern boundary Offshore borrow ground located to the north of the Dampier Marine Park Habitat Protection Zone	~83 km north of the Gascoyne Marine Park (Cwlth) ~206 km north-west of Montebello Marine Park (Cwlth) ~208 km north-northwest of Ningaloo Marine Park (Cwlth)	 ~46 km north of Gascoyne Marine Park Multiple Use Zone 	~ 77 km north of the Gascoyne Marine Park (Cwlth) ~ 201 km north-west of Montebello Marine Park (Cwlth) ~ 180 km north-northwest of Ningaloo Marine Park (Cwlth)

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Operational Area and Exclusion Zones

Temporary 500 m exclusion zones will apply around applicable seabed intervention and the Trunkline installation vessels.

The Operational Areas are:

- Trunkline Project Area:
 The proposed trunkline from around KP 32
 (Commonwealth State Boundary) to KP 435 and 1.5 km either side of the proposed trunkline centreline.
- Offshore Borrow Ground Project Area: Offshore Borrow Ground located in Commonwealth waters.

A petroleum safety zone of 500 m will be in place around the MODU and installation vessel for the duration of activities.

The Operational Areas are:

- DP MODU/drillship 500 m radius from each well centre
- Moored MODU 4,000 m radius from each well centre.
- Installation vessel 1,500 m radius around subsea locations
- Three nautical mile radius safe navigation area around the seismic vessel, streamers and tail buoys during seismic operations
- Marine users are requested to avoid this area during the survey to ensure the safety of the seismic vessel and thirdparty vessels
- Refer to Table 3 of the attached Seismic EP Consultation Information Sheet for detailed survey location points

The Operational Area for activities includes a radius of:

- 1,000 m around location of the outermost concrete pads.
- 1,500 m around location of subsea infrastructure.
- 2,000 m around future location of FPU.
- Temporary 500 m exclusion zone around vessels to manage vessel movements
- An interactive map showing the location of the proposed activities will be available on the Woodside website and will be updated throughout the proposed activities

Vessels:

Seabed intervention:

- Trailing suction hopper dredge
- Offshore construction vessel
- Rock Installation Vessel
- Survey vessels
- Support vessels
- Fuel bunkering vessels

Trunkline installation:

- Pipelay Vessel multi-joint operation
- Shallow Water Lay Barge
- Anchor handling vessel/tug
- Pipe supply vessels
- Offshore construction vessel
- Survey vessels
- Fuel bunkering vessels

- Installation vessels for installing the subsea infrastructure
- Light well intervention vessel as an option for well intervention, subsea hardware installation or contingent activities
- Support vessels including installation vessel(s), anchor handling vessel(s) and general supply/support vessels
- A purpose-built seismic vessel
- One support vessel
- A potential chase vessel, and
- An additional spotter vessel (May to June)
- Light construction vessels
- Heavy construction vessels
- Heavy lift vessels
- Derrick lay vessel
- Reel-lay vesselsSurvey vessels
- Support vessels

Feedback:

If you have any issues or concerns with these activities, or any other issues relevant to this location, please respond to Woodside at:

Feedback@woodside.com.au or 1800 442 977.

Your feedback and our response will be included in our Environment Plan which will be submitted to the National Offshore Petroleum Safety and Environmental Management Authority (NOPSEMA) for acceptance in accordance with the Offshore Petroleum and Greenhouse Gas Storage (Environment) Regulations 2009 (Cth).

Please let us know if your feedback for any of the activities proposed under an Environment Plan is sensitive and we will make this known to NOPSEMA upon submission of the Environment Plan to ensure this information remains confidential to NOPSEMA.

Please provide your views by 26 February 2023.

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Regards,

APPENDIX A

FEEDBACK	SITI EP	D&C EP	Seismic EP	Subsea EP

1.119 Email sent to Robe River Kuruma Aboriginal Corporation (RRKAC) - 20 January 2023

Further to our recent communications, I attach information in relation to Woodside's proposed Scarborough gas project.

The Scarborough gas field is located in the Carnarvon Basin, approximately 375 km off the coast of Western Australia. Woodside plans to bring gas from Scarborough to Murujuga (the Burrup Peninsula) through a pipeline that is approximately 430km long, to Woodside's Pluto gas plant. The development of the Scarborough project involves different work programs. An overview of those work programs is included in the attached documents.

In preparation for this work, Woodside has undertaken an assessment to identify potential impacts and risks to the marine environment arising from both planned and unplanned activities. Mitigation and management measures have been developed for each of the risks identified and will be outlined in the Environmental Plan (EP).

We have a number of detailed Consultation Information Sheets, available on <u>our website</u>, which provide further background on the proposed approaches, including a summary of potential key risks and associated management measures for the primary activity and alternative options.

Woodside is seeking to understand the nature of the interests that Robe River Kuruma Aboriginal Corporation (RRKAC) and its members may have in the 'environment that may be affected' (EMBA) by this activity. The EMBA is the total area over which unplanned events could have environmental impacts, as set out in the Summary Information sheet attached.

If you would like to speak with us, please let us know by **20 February 2023**. Please also let us know how you would like us to engage with you as soon as possible.

If there is any support or specific information that RRKAC requires to prepare for a meeting, please let me know. In the meantime, I have attached for RRKAC's review:

- 4. A Summary Overview of the Scarborough project; and
- 5. Respective Summary Information sheets

RRKAC can also provide feedback directly to me on the details below, to Feedback@woodside.com.au or by calling 1800 442 977, or directly to the Australian Government's National Offshore Petroleum Safety and Environmental Management Authority to communications@nopsema.gov.au or (08) 6188 8700.

Please feel free to forward this email and, the attached documents to RRKAC members as required. Woodside would be pleased to speak with RRKAC members in addition to the RRKAC Board / office holders.

We look forward to hearing from you.

Kind regards

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1.120 Email sent to Buurabalayji Thalanyji Aboriginal Corporation (BTAC) – 20 January 2023 Good afternoon
I hope this email finds you well. I note your recent communications with and attach information in relation to Woodside's proposed Scarborough gas project.
The Scarborough gas field is located in the Carnarvon Basin, approximately 375 km off the coast of Western Australia. Woodside plans to bring gas from Scarborough to Murujuga (the Burrup Peninsula) through a pipeline that is approximately 430km long, to Woodside's Pluto gas plant. The development of the Scarborough project involves different work programs. An overview of those work programs is included in the attached documents.
In preparation for this work, Woodside has undertaken an assessment to identify potential impacts and risks to the marine environment arising from both planned and unplanned activities. Mitigation and management measures have been developed for each of the risks identified and will be outlined in the Environmental Plan (EP).
We have a number of detailed Consultation Information Sheets, available on our website, which provide further background on the proposed approaches, including a summary of potential key risks and associated management measures for the primary activity and alternative options.
Woodside is seeking to understand the nature of the interests that Buurabalayji Thalanyji Aboriginal Corporation (BTAC) and its members may have in the 'environment that may be affected' (EMBA) by this activity. The EMBA is the total area over which unplanned events could have environmental impacts, as set out in the Summary Information sheet attached.
If you would like to speak with us, please let us know by 20 February 2023 . Please also let us know how you would like us to engage with you as soon as possible.
If there is any support or specific information that BTAC requires to prepare for a meeting, please let me know. In the meantime, I have attached for BTAC's review:
 A Summary Overview of the Scarborough project; and Respective Summary Information sheets
BTAC can also provide feedback directly to on the details below, to Feedback@woodside.com.au or by calling 1800 442 977, or directly to the Australian Government's National Offshore Petroleum Safety and Environmental Management Authority to communications@nopsema.gov.au or (08) 6188 8700.
Please feel free to forward this email and, the attached documents to BTAC members as required. Woodside would be pleased to speak with BTAC members in addition to the BTAC Board / office holders.
We look forward to hearing from you.
Kind regards

Consultant to First Nations & Communities | Corporate Affairs

1.121 Email sent to Buurabalayji Thalanyji Aboriginal Corporation (BTAC) – 23 January 2023

Dear

I hope this message finds you well.

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Richard mentioned that I sent the below email to the wrong email address. I am sorry about this.

As always, please don't hesitate to contact me if you have any questions. I'll also reach out this week by phone.

Sincerely



1.122 Email sent to Australian Border Force (ABF), Director of National Parks (DNP), Australian Maritime Safety Authority (AMSA) – Marine Pollution, Department of Transport (DoT), Department of Biosecurity, Conservation and Attractions (DBCA), Department of Industry, Science and Resources (DISR), Department of Mines, Industry Regulation and Safety (DMIRS), Australian Petroleum Production and Exploration Association (APPEA) – 27 January 2023

Dear Stakeholder

Woodside previously consulted you on its submitted Environment Plans (EPs) to undertake the following activities in Commonwealth waters for the Scarborough development:

- seabed intervention and trunkline installation activities for the section of the Trunkline in Commonwealth
 waters under the Scarborough Seabed Intervention and Trunkline Installation EP (SITI EP);
- drilling and subsea tree installation activities for eight planned development wells and the potential for a
 further two additional contingency wells under the WA-61-L Scarborough Drilling and Completions EP
 (D&C EP);
- 4D baseline marine seismic survey (MSS) activities over the Scarborough and Jupiter field under the Scarborough 4D Baseline Marine Seismic Survey EP (Seismic EP); and
- seabed site surveys and installation of subsea production infrastructure under the Subsea Infrastructure Installation EP (Subsea EP).

Updated consultation Information Sheets are attached, which provide additional background on the proposed activities, including summaries of potential key impacts and risks, and associated management measures. These are also available on our website.

As we are inviting consultation with you on each of the EPs above, for ease of reference, we have attached the information in this one email. In an effort to simplify feedback, we have also included a feedback template (Appendix A) which you may wish to use to provide your feedback specific to the proposed EPs.

Woodside has previously submitted Revision 1 of the **SITI EP** to NOPSEMA which has been available on the NOPSEMA website since January 2022 (https://info.nopsema.gov.au/environment_plans/575/show_public). Revision 0 of the **D&C EP** has been available on the NOPSEMA website since November 2021 (https://info.nopsema.gov.au/environment_plans/565/show_public). Revision 0 of the **Seismic EP** has been available on the NOPSEMA website since 18 October 2021 (https://info.nopsema.gov.au/environment_plans/559/show_public).

Woodside is preparing to submit a further revision of the SITI EP, D&C EP and Seismic EP to NOPSEMA with recent changes. We confirm the activities, location and duration described in these revisions remain the same, with no material changes. The Subsea EP has not yet been submitted to NOPSEMA.

The SITI EP, D&C EP and Subsea EP fall under the primary environmental approval of the <u>Scarborough Offshore Project Proposal</u> (OPP). The OPP includes a detailed description of activities, an assessment of the potential impacts and risks and includes management measures to demonstrate that the potential impacts and risks will be of an acceptable level. It was accepted by NOPSEMA in March 2020 after an extensive public consultation process.

More information on the Scarborough Project can be found here.

If you have feedback specific to each of the proposed activities described under the relevant EPs, please respond to Woodside at Feedback@woodside.com.au or 1800 442 977 by **26 February 2023**.

Activity:

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	SITI EP	D&C EP	Seismic EP	Subsea EP
Summary:	Seabed intervention and trunkline installation activities in Commonwealth waters associated with the installation of a carbon steel pipeline (Trunkline) that runs approximately 430 km from the from the proposed offshore Scarborough Floating Production Unit (FPU) to the existing onshore Pluto LNG facility. This EP covers activities for the approximately 400 km section of the Trunkline in Commonwealth waters. A separate EP covers activities in State waters.	Drilling and Completions activities in Commonwealth waters, including drilling and subsea tree installation activities for eight planned development wells and the potential for a further two contingency wells. Woodside may need to intervene, workover or re-drill the wells. Subsea inspection, monitoring, maintenance and subsea infrastructure repair activities may also be undertaken.	4D baseline seismic survey over the Scarborough and Jupiter fields. The proposed survey will be conducted over areas where seismic data has previously been acquired. The objective for the proposed activity is to acquire a new 3D seismic survey data that will provide the baseline for future 'time lapse' reservoir surveillance (or technically termed 4D baseline survey).	Seabed site surveys and installation of subsea production infrastructure. Activities include visual pre- and post-installation surveys, and installation of flowlines, umbilicals and risers and ancillary infrastructure, required for the flow and control of hydrocarbons and produced water to the Scarborough Floating Production Unit (FPU). Mooring legs and suction piles will also be installed and a gravimentry survey is also planned.
Location:	Activities run from the Scarborough FPU in WA-61-L in Commonwealth waters, about 374 km west-northwest of Dampier, to the State waters boundary at the northern extent of the Dampier Archipelago.	Activities are located in Permit Area WA-61-L in Commonwealth waters, about 374 km west-northwest of Dampier, Western Australia. Approximate development well locations for the eight planned wells are provided in Table 2 of the attached D&C EP Consultation Information Sheet.	The seismic survey will cover the Scarborough and Jupiter fields within Commonwealth waters, located in the Exmouth Plateau, approximately 214 km north west of Exmouth, Western Australia.	Activities are located in permit Areas WA-61-L and WA-62-L, around 374 km west-northwest of Dampier, Western Australia.
Approx. Water Depth (m):	~ 32 m – 1400 m	~ 900 m – 955 m	~ 800 m – 1,150 m	~ 900 m – 1000 m
Earliest commencement date:	Seabed intervention activities: Mid 2023 pending approvals, vessel availability and weather constraints. Trunkline installation activities: Q4 2023 pending successful completion approvals, vessel availability and weather constraints.	Activities planned to commence in H2 2023 pending approvals, vessel availability and weather constraints.	Activities planned to commence in H1 2023 pending approvals, vessel availability and weather constraints.	Activities planned to commence in H2 2023 (and estimated to be completed in 18 months with activities occurring in multiple campaigns).
Estimated duration:	~24 months across multiple campaigns	~50 – 60 days per well	~55 – 70 days	~18 months (cumulative) for the survey and installation activities
Distance from Operational Area to nearest town	The closest Commonwealth section of the trunkline on the State waters boundary is~32 km north-west of Dampier.	~244 km north-northwest of Exmouth, 374 km west-northwest of Dampier.	~214 km north-west of Exmouth.	~ 244 km north-northwes of Exmouth, ~ 374 km west-northwest of Dampier.
Distance from Operational Area	The trunkline corridor runs through the Montebello Marine Park – Multiple Use Zone	~83 km north of the Gascoyne Marine Park (Cwlth)	~46 km north of Gascoyne Marine Park Multiple Use Zone	• ~ 77 km north of the Gascoyne Marine Park (Cwlth)

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		T	T	
to nearest marine park	 (Cwth), close to the northern boundary Offshore borrow ground located to the north of the Dampier Marine Park Habitat Protection Zone 	~206 km north-west of Montebello Marine Park (Cwlth) ~208 km north-northwest of Ningaloo Marine Park (Cwlth)		 ~ 201 km north-west of Montebello Marine Park (Cwlth) ~ 180 km north- northwest of Ningaloo Marine Park (Cwlth)
Operational Area and Exclusion Zones	Temporary 500 m exclusion zones will apply around applicable seabed intervention and the Trunkline installation vessels. The Operational Areas are: • Trunkline Project Area: The proposed trunkline from around KP 32 (Commonwealth – State Boundary) to KP 435 and 1.5 km either side of the proposed trunkline centreline. • Offshore Borrow Ground Project Area: Offshore Borrow Ground located in Commonwealth waters.	A petroleum safety zone of 500 m will be in place around the MODU and installation vessel for the duration of activities. The Operational Areas are: • DP MODU/drillship – 500 m radius from each well centre • Moored MODU – 4,000 m radius from each well centre. • Installation vessel – 1,500 m radius around subsea locations	Three nautical mile radius safe navigation area around the seismic vessel, streamers and tail buoys during seismic operations Marine users are requested to avoid this area during the survey to ensure the safety of the seismic vessel and third-party vessels Refer to Table 3 of the attached Seismic EP Consultation Information Sheet for detailed survey location points	infrastructure. • 2,000 m around future location of FPU. • Temporary 500 m exclusion zone around vessels to manage
Vessels:	Seabed intervention: Trailing suction hopper dredge Offshore construction vessel Rock Installation Vessel Survey vessels Support vessels Fuel bunkering vessels Trunkline installation: Pipelay Vessel multi-joint operation Shallow Water Lay Barge Anchor handling vessel/tug Pipe supply vessels Offshore construction vessel Survey vessels Fuel bunkering vessels	Installation vessels for installing the subsea infrastructure Light well intervention vessel as an option for well intervention, subsea hardware installation or contingent activities Support vessels including installation vessel(s), anchor handling vessel(s) and general supply/support vessels	A purpose-built seismic vessel One support vessel A potential chase vessel, and An additional spotter vessel (May to June)	Light construction vessels Heavy construction vessels Heavy lift vessels Derrick lay vessel Reel-lay vessels Survey vessels Support vessels

If you have any issues or concerns with these activities, or any other issues relevant to this location, please respond to Woodside at:

Feedback@woodside.com.au or 1800 442 977.

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Your feedback and our response will be included in our Environment Plan which will be submitted to the National Offshore Petroleum Safety and Environmental Management Authority (NOPSEMA) for acceptance in accordance with the Offshore Petroleum and Greenhouse Gas Storage (Environment) Regulations 2009 (Cth).

Please let us know if your feedback for any of the activities proposed under an Environment Plan is sensitive and we will make this known to NOPSEMA upon submission of the Environment Plan to ensure this information remains confidential to NOPSEMA.

Please provide your views by 26 February 2023.

Regards,

APPENDIX A

FEEDBACK	SITI EP	D&C EP	Seismic EP	Subsea EP

Woodside Feedback

1.123 Email sent to Australian Hydrographic Office (AHO) and Australian Maritime Safety Authority (AMSA) – Marine Safety – 27 January 2023

Dear AHO and AMSA

Woodside previously consulted you on its submitted Environment Plans (EPs) to undertake the following activities in Commonwealth waters for the Scarborough development:

- seabed intervention and trunkline installation activities for the section of the Trunkline in Commonwealth waters under the Scarborough Seabed Intervention and Trunkline Installation EP (SITI EP);
- drilling and subsea tree installation activities for eight planned development wells and the potential for a
 further two additional contingency wells under the WA-61-L Scarborough Drilling and Completions EP
 (D&C EP);
- 4D baseline marine seismic survey (MSS) activities over the Scarborough and Jupiter field under the Scarborough 4D Baseline Marine Seismic Survey EP (Seismic EP); and
- seabed site surveys and installation of subsea production infrastructure under the Subsea Infrastructure Installation EP (Subsea EP).

Updated consultation Information Sheets are attached, which provide additional background on the proposed activities, including summaries of potential key impacts and risks, and associated management measures. These are also available on our <u>website</u>.

Woodside will make available a shipping lane figure as soon as possible.

As we are inviting consultation with you on each of the EPs above, for ease of reference, we have attached the information in this one email. In an effort to simplify feedback, we have also included a feedback template (Appendix A) which you may wish to use to provide your feedback specific to the proposed EPs.

Woodside has previously submitted Revision 1 of the **SITI EP** to NOPSEMA which has been available on the NOPSEMA website since January 2022 (https://info.nopsema.gov.au/environment_plans/575/show_public). Revision 0 of the **D&C EP** has been available on the NOPSEMA website since November 2021 (https://info.nopsema.gov.au/environment_plans/565/show_public). Revision 0 of the **Seismic EP** has been

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available on the NOPSEMA website since 18 October 2021 (https://info.nopsema.gov.au/environment_plans/559/show_public).

Woodside is preparing to submit a further revision of the SITI EP, D&C EP and Seismic EP to NOPSEMA with recent changes. We confirm the activities, location and duration described in these revisions remain the same, with no material changes. The Subsea EP has not yet been submitted to NOPSEMA.

The SITI EP, D&C EP and Subsea EP fall under the primary environmental approval of the <u>Scarborough Offshore Project Proposal</u> (OPP). The OPP includes a detailed description of activities, an assessment of the potential impacts and risks and includes management measures to demonstrate that the potential impacts and risks will be of an acceptable level. It was accepted by NOPSEMA in March 2020 after an extensive public consultation process.

More information on the Scarborough Project can be found here.

If you have feedback specific to each of the proposed activities described under the relevant EPs, please respond to Woodside at Feedback@woodside.com.au or 1800 442 977 by **26 February 2023**.

Activity:

	SITI EP	D&C EP	Seismic EP	Subsea EP
Summary:	Seabed intervention and trunkline installation activities in Commonwealth waters associated with the installation of a carbon steel pipeline (Trunkline) that runs approximately 430 km from the from the proposed offshore Scarborough Floating Production Unit (FPU) to the existing onshore Pluto LNG facility. This EP covers activities for the approximately 400 km section of the Trunkline in Commonwealth waters. A separate EP covers activities in State waters.	may need to intervene, workover or re-drill the wells. Subsea inspection, monitoring, maintenance and subsea infrastructure repair activities may also be undertaken.	future 'time lapse' reservoir surveillance (or technically termed 4D baseline survey).	Seabed site surveys and installation of subsea production infrastructure. Activities include visual pre- and post-installation surveys, and installation of flowlines, umbilicals and risers and ancillary infrastructure, required for the flow and control of hydrocarbons and produced water to the Scarborough Floating Production Unit (FPU). Mooring legs and suction piles will also be installed and a gravimentry survey is also planned.
Location:	Activities run from the Scarborough FPU in WA-61-L in Commonwealth waters, about 374 km west-northwest of Dampier, to the State waters boundary at the northern extent of the Dampier Archipelago.	Activities are located in Permit Area WA-61-L in Commonwealth waters, about 374 km west- northwest of Dampier, Western Australia. Approximate development well locations for the eight planned wells are provided in Table 2 of the attached D&C EP Consultation Information Sheet.	The seismic survey will cover the Scarborough and Jupiter fields within Commonwealth waters, located in the Exmouth Plateau, approximately 214 km north west of Exmouth, Western Australia.	Activities are located in permit Areas WA-61-L and WA-62-L, around 374 km west-northwest of Dampier, Western Australia.
Approx. Water Depth (m):	~ 32 m – 1400 m	~ 900 m – 955 m	~ 800 m – 1,150 m	~ 900 m – 1000 m
Earliest commencement date:	Seabed intervention activities: Mid 2023 pending approvals, vessel availability and weather constraints.	Activities planned to commence in H2 2023 pending approvals, vessel availability and weather constraints.	Activities planned to commence in H1 2023 pending approvals, vessel availability and weather constraints.	Activities planned to commence in H2 2023 (and estimated to be completed in 18 months with activities occurring in multiple campaigns).

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Estimated duration:	Trunkline installation activities: Q4 2023 pending successful completion approvals, vessel availability and weather constraints. ~24 months across multiple campaigns	~50 – 60 days per well	~55 – 70 days	~18 months (cumulative) for the survey and installation activities
Distance from Operational Area to nearest town	The closest Commonwealth section of the trunkline on the State waters boundary is~32 km north-west of Dampier.	~244 km north-northwest of Exmouth, 374 km west-northwest of Dampier.	~214 km north-west of Exmouth.	~ 244 km north-northwest of Exmouth, ~ 374 km west-northwest of Dampier.
Distance from Operational Area to nearest marine park	The trunkline corridor runs through the Montebello Marine Park Montebello Marine Park Multiple Use Zone (Cwth), close to the northern boundary Offshore borrow ground located to the north of the Dampier Marine Park Habitat Protection Zone	~83 km north of the Gascoyne Marine Park (Cwlth) ~206 km north-west of Montebello Marine Park (Cwlth) ~208 km north-northwest of Ningaloo Marine Park (Cwlth)	• ~46 km north of Gascoyne Marine Park Multiple Use Zone	~ 77 km north of the Gascoyne Marine Park (Cwlth) ~ 201 km north-west of Montebello Marine Park (Cwlth) ~ 180 km north-northwest of Ningaloo Marine Park (Cwlth)
Operational Area and Exclusion Zones	Temporary 500 m exclusion zones will apply around applicable seabed intervention and the Trunkline installation vessels. The Operational Areas are: • Trunkline Project Area: The proposed trunkline from around KP 32 (Commonwealth – State Boundary) to KP 435 and 1.5 km either side of the proposed trunkline centreline. • Offshore Borrow Ground Project Area: Offshore Borrow Ground located in Commonwealth waters.	A petroleum safety zone of 500 m will be in place around the MODU and installation vessel for the duration of activities. The Operational Areas are: • DP MODU/drillship – 500 m radius from each well centre • Moored MODU – 4,000 m radius from each well centre. • Installation vessel – 1,500 m radius around subsea locations	area around the seismic vessel, streamers and tail buoys during seismic operations • Marine users are requested to avoid this area during the survey to ensure the safety of the seismic vessel and third-party vessels • Refer to Table 3 of the attached Seismic EP Consultation Information Sheet for detailed survey location points	infrastructure. • 2,000 m around future location of FPU. • Temporary 500 m exclusion zone around vessels to manage vessel movements • An interactive map showing the location of the proposed activities will be available on the Woodside website and will be updated throughout the proposed activities
Vessels:	Seabed intervention: Trailing suction hopper dredge Offshore construction vessel Rock Installation Vessel Survey vessels Support vessels Fuel bunkering vessels Trunkline installation:	 Installation vessels for installing the subsea infrastructure Light well intervention vessel as an option for well intervention, subsea hardware installation or contingent activities Support vessels including installation vessel(s), anchor handling vessel(s) 	 A purpose-built seismic vessel One support vessel A potential chase vessel, and An additional spotter vessel (May to June) 	Light construction vessels Heavy construction vessels Heavy lift vessels Derrick lay vessel Reel-lay vessels Survey vessels Support vessels

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Pipelay Vesse			
operation	supply/support vesse	ls	
Shallow Water	r Lay Barge		
Anchor handli	ng		
vessel/tug			
Pipe supply vi	essels		
Offshore cons	struction		
vessel			
Survey vesse	ls		
Fuel bunkerin	g vessels		

If you have any issues or concerns with these activities, or any other issues relevant to this location, please respond to Woodside at:

Feedback@woodside.com.au or 1800 442 977.

Your feedback and our response will be included in our Environment Plan which will be submitted to the National Offshore Petroleum Safety and Environmental Management Authority (NOPSEMA) for acceptance in accordance with the Offshore Petroleum and Greenhouse Gas Storage (Environment) Regulations 2009 (Cth).

Please let us know if your feedback for any of the activities proposed under an Environment Plan is sensitive and we will make this known to NOPSEMA upon submission of the Environment Plan to ensure this information remains confidential to NOPSEMA.

Please provide your views by 26 February 2023.

Regards,

APPENDIX A

FEEDBACK	SITI EP	D&C EP	Seismic EP	Subsea EP

Woodside Feedback

1.124 Email sent to Department of Climate Change, Energy, the Environment and Water (DCCEEW) / Department of Agriculture, Fisheries and Forestry (DAFF) – 3 February 2023

Dear Department of Climate Change, Energy, the Environment and Water (DCCEEW) and Department of Agriculture, Fisheries and Forestry (DAFF)

Woodside previously consulted you on its submitted Environment Plans (EPs) to undertake the following activities in Commonwealth waters for the Scarborough development:

- seabed intervention and trunkline installation activities for the section of the Trunkline in Commonwealth waters under the Scarborough Seabed Intervention and Trunkline Installation EP (SITI EP);
- drilling and subsea tree installation activities for eight planned development wells and the potential for a
 further two additional contingency wells under the WA-61-L Scarborough Drilling and Completions EP
 (D&C EP);
- 4D baseline marine seismic survey (MSS) activities over the Scarborough and Jupiter field under the Scarborough 4D Baseline Marine Seismic Survey EP (Seismic EP); and

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 seabed site surveys and installation of subsea production infrastructure under the Subsea Infrastructure Installation EP (Subsea EP).

Updated consultation Information Sheets are attached, which provide additional background on the proposed activities, including summaries of potential key impacts and risks, and associated management measures. These are also available on our <u>website</u>.

Woodside advises there are a number of historical shipwrecks which have been recorded within the EMBA for the proposed activities. Please find a list relevant to each EP attached. **Also attached are Commonwealth fishery figures.**

As we are inviting consultation with you on each of the EPs above, for ease of reference, we have attached the information in this one email. In an effort to simplify feedback, we have also included a feedback template (Appendix A) which you may wish to use to provide your feedback specific to the proposed EPs.

Woodside has previously submitted Revision 1 of the **SITI EP** to NOPSEMA which has been available on the NOPSEMA website since January 2022 (https://info.nopsema.gov.au/environment_plans/575/show_public). Revision 0 of the **D&C EP** has been available on the NOPSEMA website since November 2021 (https://info.nopsema.gov.au/environment_plans/565/show_public). Revision 0 of the **Seismic EP** has been available on the NOPSEMA website since 18 October 2021 (https://info.nopsema.gov.au/environment_plans/559/show_public).

Woodside is preparing to submit a further revision of the SITI EP, D&C EP and Seismic EP to NOPSEMA with recent changes. We confirm the activities, location and duration described in these revisions remain the same, with no material changes. The Subsea EP has not yet been submitted to NOPSEMA.

The SITI EP, D&C EP and Subsea EP fall under the primary environmental approval of the <u>Scarborough Offshore Project Proposal</u> (OPP). The OPP includes a detailed description of activities, an assessment of the potential impacts and risks and includes management measures to demonstrate that the potential impacts and risks will be of an acceptable level. It was accepted by NOPSEMA in March 2020 after an extensive public consultation process.

More information on the Scarborough Project can be found here.

If you have additional feedback specific to each of the proposed activities described under the relevant EPs, please respond to Woodside at Feedback@woodside.com.au or 1800 442 977 by **5 March 2023**.

Please note this consultation information is of relevance to both DCCEEW and DAFF.

Activity:

	SITI EP	D&C EP	Seismic EP	Subsea EP
Summary:	Seabed intervention and trunkline installation activities in Commonwealth waters associated with the installation of a carbon steel pipeline (Trunkline) that runs approximately 430 km from the from the proposed offshore Scarborough Floating Production Unit (FPU) to the existing onshore Pluto LNG facility. This EP covers activities for the approximately 400 km section of the Trunkline in Commonwealth waters. A separate EP covers activities in State waters.	Drilling and Completions activities in Commonwealth waters, including drilling and subsea tree installation activities for eight planned development wells and the potential for a further two contingency wells. Woodside may need to intervene, workover or re-drill the wells. Subsea inspection, monitoring, maintenance and subsea infrastructure repair activities may also be undertaken.	proposed activity is to acquire a new 3D seismic survey data that will	Seabed site surveys and installation of subsea production infrastructure. Activities include visual pre- and post-installation surveys, and installation of flowlines, umbilicals and risers and ancillary infrastructure, required for the flow and control of hydrocarbons and produced water to the Scarborough Floating Production Unit (FPU). Mooring legs and suction piles will also be installed and a gravimentry survey is also planned.

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Location:	Activities run from the Scarborough FPU in WA-61-L in Commonwealth waters, about 374 km west-northwest of Dampier, to the State waters boundary at the northern extent of the Dampier Archipelago.	Activities are located in Permit Area WA-61-L in Commonwealth waters, about 374 km west-northwest of Dampier, Western Australia. Approximate development well locations for the eight planned wells are provided in Table 2 of the attached D&C EP Consultation Information Sheet. ~ 900 m – 955 m	The seismic survey will cover the Scarborough and Jupiter fields within Commonwealth waters, located in the Exmouth Plateau, approximately 214 km north west of Exmouth, Western Australia.	Activities are located in permit Areas WA-61-L and WA-62-L, around 374 km west-northwest of Dampier, Western Australia.
Approx. Water Depth (m):	~ 32 111 = 1400 111	~ 900 III = 933 III	~ 500 III = 1,130 III	~ 900 111 — 1000 111
Earliest commencement date:	Seabed intervention activities: Mid 2023 pending approvals, vessel availability and weather constraints. Trunkline installation activities: Q4 2023 pending successful completion approvals, vessel availability and weather constraints.	Activities planned to commence in H2 2023 pending approvals, vessel availability and weather constraints.	Activities planned to commence in H1 2023 pending approvals, vessel availability and weather constraints.	Activities planned to commence in H2 2023 (and estimated to be completed in 18 months with activities occurring in multiple campaigns).
Estimated duration:	~24 months across multiple campaigns	~50 – 60 days per well	~55 – 70 days	~18 months (cumulative) for the survey and installation activities
Distance from Operational Area to nearest town	The closest Commonwealth section of the trunkline on the State waters boundary is~32 km north-west of Dampier.	~244 km north-northwest of Exmouth, 374 km west-northwest of Dampier.	~214 km north-west of Exmouth.	~ 244 km north-northwest of Exmouth, ~ 374 km west-northwest of Dampier.
Distance from Operational Area to nearest marine park	The trunkline corridor runs through the Montebello Marine Park Montebello Marine Park Multiple Use Zone (Cwth), close to the northern boundary Offshore borrow ground located to the north of the Dampier Marine Park Habitat Protection Zone	~83 km north of the Gascoyne Marine Park (Cwlth) ~206 km north-west of Montebello Marine Park (Cwlth) ~208 km north-northwest of Ningaloo Marine Park (Cwlth)	~46 km north of Gascoyne Marine Park Multiple Use Zone	 ~ 77 km north of the Gascoyne Marine Park (Cwlth) ~ 201 km north-west of Montebello Marine Park (Cwlth) ~ 180 km north-northwest of Ningaloo Marine Park (Cwlth)
Operational Area and Exclusion Zones	Temporary 500 m exclusion zones will apply around applicable seabed intervention and the Trunkline installation vessels. The Operational Areas are: • Trunkline Project Area: The proposed trunkline from around KP 32 (Commonwealth – State Boundary) to KP 435 and 1.5 km either side of the	A petroleum safety zone of 500 m will be in place around the MODU and installation vessel for the duration of activities. The Operational Areas are: • DP MODU/drillship – 500 m radius from each well centre • Moored MODU – 4,000 m radius from each well centre.	Three nautical mile radius safe navigation area around the seismic vessel, streamers and tail buoys during seismic operations Marine users are requested to avoid this area during the survey to ensure the safety of the seismic vessel and third-party vessels	The Operational Area for activities includes a radius of: • 1,000 m around location of the outermost concrete pads. • 1,500 m around location of subsea infrastructure. • 2,000 m around future location of FPU.

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	proposed trunkline centreline. • Offshore Borrow Ground Project Area: Offshore Borrow Ground located in Commonwealth waters.	Installation vessel – 1,500 m radius around subsea locations	Refer to Table 3 of the attached Seismic EP Consultation Information Sheet for detailed survey location points	 Temporary 500 m exclusion zone around vessels to manage vessel movements An interactive map showing the location of the proposed activities will be available on the Woodside website and will be updated throughout the proposed activities
Vessels:	Seabed intervention: Trailing suction hopper dredge Offshore construction vessel Rock Installation Vessel Survey vessels Support vessels Fuel bunkering vessels Trunkline installation: Pipelay Vessel multi-joint operation Shallow Water Lay Barge Anchor handling vessel/tug Pipe supply vessels Offshore construction vessel Survey vessels Fuel bunkering vessels	 Installation vessels for installing the subsea infrastructure Light well intervention vessel as an option for well intervention, subsea hardware installation or contingent activities Support vessels including installation vessel(s), anchor handling vessel(s) and general supply/support vessels 	 A purpose-built seismic vessel One support vessel A potential chase vessel, and An additional spotter vessel (May to June) 	 Light construction vessels Heavy construction vessels Heavy lift vessels Derrick lay vessel Reel-lay vessels Survey vessels Support vessels

If you have any issues or concerns with these activities, or any other issues relevant to this location, please respond to Woodside at:

Feedback@woodside.com.au or 1800 442 977.

Your feedback and our response will be included in our Environment Plan which will be submitted to submitted to the National Offshore Petroleum Safety and Environmental Management Authority (NOPSEMA) for acceptance in accordance with the Offshore Petroleum and Greenhouse Gas Storage (Environment) Regulations 2009 (Cth).

Please let us know if your feedback for any of the activities proposed under an Environment Plan is sensitive and we will make this known to NOPSEMA upon submission of the Environment Plan to ensure this information remains confidential to NOPSEMA.

Please provide your views by 5 March 2023.

Regards,

APPENDIX A

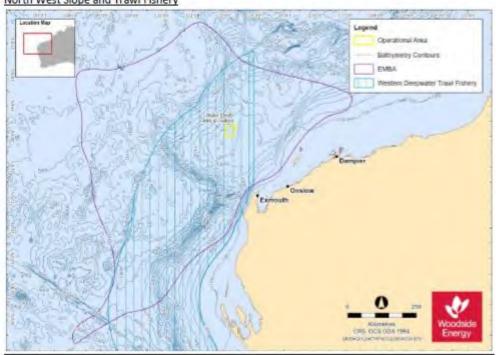
FEEDBACK	SITI EP	D&C EP	Seismic EP	Subsea EP

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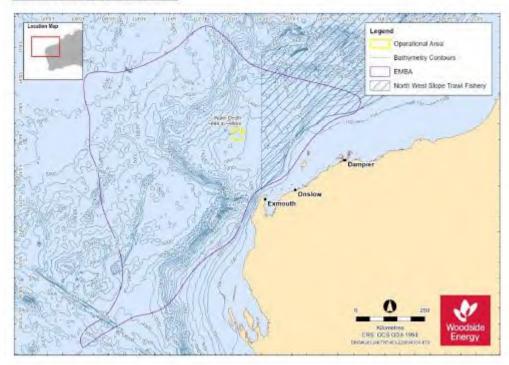
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Subsea Infrastructure Installation EP (Subsea EP)

North West Slope and Trawl Fishery



Western Deepwater Trawl Fishery



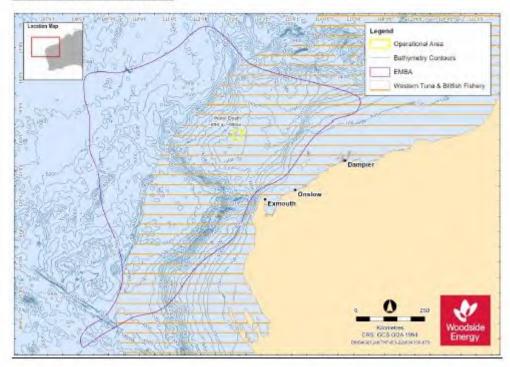
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Western Tuna and Billfish Fishery



WA-61-L and WA-62-L Subsea Infrastructure Installation EP (Subsea EP)

Vessel name	Year wrecked	Wreck location	Latitude	Longitude
Vianen	1628	Barrow Island Area	-20	115.1666667
Wild Wave (China)	1873	Monte Bello Island	-20	115.1666667
Kadna	1902	TBC	-17.96166667	112.2363833
Marietta	1905	Barrow Island	-20	115.1666667
Lady Ann Abandoned Fishing	1982	24 miles north of NW Cape	-21.4	114.2
Vessel	2006	North West of Barrow Island	-18.01666667	109.1
Tanami	*not provided*	Trial Rocks	-20.28333	115.36666
Trial	1622	Trial Rocks	-20.28598333	115.3752333
Curlew	1911	At Onslow, Monte Bellos Group	-20	115.1666667

1.125 Email sent to Department of Defence (DoD) (27 January 2023)

Woodside previously consulted you on its submitted Environment Plans (EPs) to undertake the following activities in Commonwealth waters for the Scarborough development:

- seabed intervention and trunkline installation activities for the section of the Trunkline in Commonwealth
 waters under the Scarborough Seabed Intervention and Trunkline Installation EP (SITI EP);
- drilling and subsea tree installation activities for eight planned development wells and the potential for a
 further two additional contingency wells under the WA-61-L Scarborough Drilling and Completions EP
 (D&C EP); and
- 4D baseline marine seismic survey (MSS) activities over the Scarborough and Jupiter field under the Scarborough 4D Baseline Marine Seismic Survey EP (Seismic EP).

Woodside is also planning to undertake seabed site surveys and installation of subsea production infrastructure under the Subsea Infrastructure Installation EP (**Subsea EP**).

Updated consultation Information Sheets are attached, which provide additional background on the proposed activities, including summaries of potential key impacts and risks, and associated management measures. These are also available on our website.

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Woodside is also seeking access to sufficient data or a map of Defence Restricted and Prohibited Areas to inform Woodside's development of defence zone maps and figures for DoD's use.

As we are inviting consultation with you on each of the EPs above, for ease of reference, we have attached the information in this one email. In an effort to simplify feedback, we have also included a feedback template (Appendix A) which you may wish to use to provide your feedback specific to the proposed EPs.

Woodside has previously submitted Revision 1 of the **SITI EP** to NOPSEMA which has been available on the NOPSEMA website since January 2022 (https://info.nopsema.gov.au/environment_plans/575/show_public). Revision 0 of the **D&C EP** has been available on the NOPSEMA website since November 2021 (https://info.nopsema.gov.au/environment_plans/565/show_public). Revision 0 of the **Seismic EP** has been available on the NOPSEMA website since 18 October 2021 (https://info.nopsema.gov.au/environment_plans/559/show_public).

Woodside is preparing to submit a further revision of the SITI EP, D&C EP and Seismic EP to NOPSEMA with recent changes. We confirm the activities, location and duration described in these revisions remain the same, with no material changes. The Subsea EP has not yet been submitted to NOPSEMA.

The SITI EP, D&C EP and Subsea EP fall under the primary environmental approval of the <u>Scarborough Offshore Project Proposal</u> (OPP). The OPP includes a detailed description of activities, an assessment of the potential impacts and risks and includes management measures to demonstrate that the potential impacts and risks will be of an acceptable level. It was accepted by NOPSEMA in March 2020 after an extensive public consultation process.

More information on the Scarborough Project can be found here.

If you have feedback specific to each of the proposed activities described under the relevant EPs, please respond to Woodside at Feedback@woodside.com.au or 1800 442 977 by **26 February 2023**.

Activity:

	SITI EP	D&C EP	Seismic EP	Subsea EP
Summary:	Seabed intervention and trunkline installation activities in Commonwealth waters associated with the installation of a carbon steel pipeline (Trunkline) that runs approximately 430 km from the from the proposed offshore Scarborough Floating Production Unit (FPU) to the existing onshore Pluto LNG facility. This EP covers activities for the approximately 400 km section of the Trunkline in Commonwealth waters. A separate EP covers activities in State waters.	Drilling and Completions activities in Commonwealth waters, including drilling and subsea tree installation activities for eight planned development wells and the potential for a further two contingency wells. Woodside may need to intervene, workover or re-drill the wells. Subsea inspection, monitoring, maintenance and subsea infrastructure repair activities may also be undertaken.	proposed activity is to acquire a new 3D seismic survey data that will	Seabed site surveys and installation of subsea production infrastructure. Activities include visual pre- and post-installation surveys, and installation of flowlines, umbilicals and risers and ancillary infrastructure, required for the flow and control of hydrocarbons and produced water to the Scarborough Floating Production Unit (FPU). Mooring legs and suction piles will also be installed and a gravimentry survey is also planned.
Location:	Activities run from the Scarborough FPU in WA-61-L in Commonwealth waters, about 374 km westnorthwest of Dampier, to the State waters boundary at the northern extent of the Dampier Archipelago.	Activities are located in Permit Area WA-61-L in Commonwealth waters, about 374 km west-northwest of Dampier, Western Australia. Approximate development well locations for the eight planned wells are provided in	The seismic survey will cover the Scarborough and Jupiter fields within Commonwealth waters, located in the Exmouth Plateau, approximately 214 km north west of Exmouth, Western Australia.	Activities are located in permit Areas WA-61-L and WA-62-L, around 374 km west-northwest of Dampier, Western

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	I	I -	T	I
		Table 2 of the attached D&C EP Consultation Information Sheet.		
Approx. Water Depth (m):	~ 32 m – 1400 m	~ 900 m – 955 m	~ 800 m – 1,150 m	~ 900 m – 1000 m
Earliest commencement date:	Seabed intervention activities: Mid 2023 pending approvals, vessel availability and weather constraints. Trunkline installation activities: Q4 2023 pending successful	Activities planned to commence in H2 2023 pending approvals, vessel availability and weather constraints.	Activities planned to commence in H1 2023 pending approvals, vessel availability and weather constraints.	Activities planned to commence in H2 2023 (and estimated to be completed in 18 months with activities occurring in multiple campaigns).
	completion approvals, vessel availability and weather constraints.			
Estimated duration:	~24 months across multiple campaigns	~50 – 60 days per well	~55 – 70 days	~18 months (cumulative) for the survey and installation activities
Distance from Operational Area to nearest town	The closest Commonwealth section of the trunkline on the State waters boundary is~32 km north-west of Dampier.	~244 km north-northwest of Exmouth, 374 km west-northwest of Dampier.	~214 km north-west of Exmouth.	~ 244 km north-northwest of Exmouth, ~ 374 km west-northwest of Dampier.
Distance from Operational Area to nearest marine park	The trunkline corridor runs through the Montebello Marine Park Montebello Marine Park Multiple Use Zone (Cwth), close to the northern boundary Offshore borrow ground located to the north of the Dampier Marine Park Habitat Protection Zone	~83 km north of the Gascoyne Marine Park (Cwlth) ~206 km north-west of Montebello Marine Park (Cwlth) ~208 km north-northwest of Ningaloo Marine Park (Cwlth)	~46 km north of Gascoyne Marine Park Multiple Use Zone	 ~ 77 km north of the Gascoyne Marine Park (Cwlth) ~ 201 km north-west of Montebello Marine Park (Cwlth) ~ 180 km north-northwest of Ningaloo Marine Park (Cwlth)
Operational Area and Exclusion Zones	Temporary 500 m exclusion zones will apply around applicable seabed intervention and the Trunkline installation vessels. The Operational Areas are: • Trunkline Project Area: The proposed trunkline from around KP 32 (Commonwealth – State Boundary) to KP 435 and 1.5 km either side of the proposed trunkline centreline. • Offshore Borrow Ground Project Area: Offshore Borrow Ground located in Commonwealth waters.	A petroleum safety zone of 500 m will be in place around the MODU and installation vessel for the duration of activities. The Operational Areas are: • DP MODU/drillship – 500 m radius from each well centre • Moored MODU – 4,000 m radius from each well centre. • Installation vessel – 1,500 m radius around subsea locations	Three nautical mile radius safe navigation area around the seismic vessel, streamers and tail buoys during seismic operations Marine users are requested to avoid this area during the survey to ensure the safety of the seismic vessel and third-party vessels Refer to Table 3 of the attached Seismic EP Consultation Information Sheet for detailed survey location points	outermost concrete pads. • 1,500 m around location of subsea infrastructure. • 2,000 m around future location of FPU. • Temporary 500 m exclusion zone around vessels to manage

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Vessels:	Seabed intervention: Trailing suction hopper dredge Offshore construction vessel Rock Installation Vessel Survey vessels Support vessels Fuel bunkering vessels Trunkline installation: Pipelay Vessel multi-joint operation	Installation vessels for installing the subsea infrastructure Light well intervention vessel as an option for well intervention, subsea hardware installation or contingent activities Support vessels including installation vessel(s), anchor handling vessel(s) and general supply/support vessels	A purpose-built seismic vessel One support vessel A potential chase vessel, and An additional spotter vessel (May to June)	throughout the proposed activities • Light construction vessels • Heavy construction vessels • Heavy lift vessels • Derrick lay vessel • Reel-lay vessels • Survey vessels • Support vessels
	 Shallow Water Lay Barge Anchor handling vessel/tug Pipe supply vessels Offshore construction vessel Survey vessels Fuel bunkering vessels 			

If you have any issues or concerns with these activities, or any other issues relevant to this location, please respond to Woodside at:

Feedback@woodside.com.au or 1800 442 977.

Your feedback and our response will be included in our Environment Plan which will be submitted to the National Offshore Petroleum Safety and Environmental Management Authority (NOPSEMA) for acceptance in accordance with the Offshore Petroleum and Greenhouse Gas Storage (Environment) Regulations 2009 (Cth).

Please let us know if your feedback for any of the activities proposed under an Environment Plan is sensitive and we will make this known to NOPSEMA upon submission of the Environment Plan to ensure this information remains confidential to NOPSEMA.

Please provide your views by 26 February 2023.

Regards,

APPENDIX A

FEEDBACK	SITI EP	D&C EP	Seismic EP	Subsea EP

1.126 Email sent to Recfishwest, Marine Tourism WA and WA Game Fishing Association (27 January 2023)

Dear Stakeholder

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Woodside has submitted Environment Plans (EPs) to undertake the following activities in Commonwealth waters for the Scarborough development:

- seabed intervention and trunkline installation activities for the section of the Trunkline in Commonwealth waters under the Scarborough Seabed Intervention and Trunkline Installation EP (SITI EP);
- drilling and subsea tree installation activities for eight planned development wells and the potential for a
 further two additional contingency wells under the WA-61-L Scarborough Drilling and Completions EP (D&C
 EP):
- 4D baseline marine seismic survey (MSS) activities over the Scarborough and Jupiter field under the Scarborough 4D Baseline Marine Seismic Survey EP (Seismic EP); and
- seabed site surveys and installation of subsea production infrastructure under the Subsea Infrastructure Installation EP (Subsea EP).

Updated consultation Information Sheets are attached, which provide additional background on the proposed activities, including summaries of potential key impacts and risks, and associated management measures. These are also available on our website.

As we are inviting consultation with you on each of the EPs above, for ease of reference, we have attached the information in this one email. In an effort to simplify feedback, we have also included a feedback template (Appendix A) which you may wish to use to provide your feedback specific to the proposed EPs.

Woodside has previously submitted Revision 1 of the **SITI EP** to NOPSEMA which has been available on the NOPSEMA website since January 2022 (https://info.nopsema.gov.au/environment_plans/575/show_public). Revision 0 of the **D&C EP** has been available on the NOPSEMA website since November 2021 (https://info.nopsema.gov.au/environment_plans/565/show_public). Revision 0 of the **Seismic EP** has been available on the NOPSEMA website since 18 October 2021 (https://info.nopsema.gov.au/environment_plans/559/show_public).

Woodside is preparing to submit a further revision of the SITI EP, D&C EP and Seismic EP to NOPSEMA with recent changes. We confirm the activities, location and duration described in these revisions remain the same, with no material changes. The Subsea EP has not yet been submitted to NOPSEMA.

The SITI EP, D&C EP and Subsea EP fall under the primary environmental approval of the <u>Scarborough Offshore Project Proposal</u> (OPP). The OPP includes a detailed description of activities, an assessment of the potential impacts and risks and includes management measures to demonstrate that the potential impacts and risks will be of an acceptable level. It was accepted by NOPSEMA in March 2020 after an extensive public consultation process.

More information on the Scarborough Project can be found here.

If you have feedback specific to each of the proposed activities described under the relevant EPs, please respond to Woodside at Feedback@woodside.com.au or 1800 442 977 by **26 February 2023**.

Activity:

	SITI EP	D&C EP	Seismic EP	Subsea EP
Summary:	Seabed intervention and trunkline installation activities in Commonwealth waters associated with the installation of a carbon steel pipeline (Trunkline) that runs approximately 430 km from the from the proposed offshore Scarborough Floating Production Unit (FPU) to the existing onshore Pluto LNG facility.	Drilling and Completions activities in Commonwealth waters, including drilling and subsea tree installation activities for eight planned development wells and the potential for a further two contingency wells. Woodside may need to intervene, workover or re-drill the wells. Subsea inspection, monitoring, maintenance and	proposed activity is to acquire a new 3D seismic survey data that will provide the baseline for	installation of subsea production infrastructure. Activities include visual pre- and post-installation surveys, and installation of flowlines, umbilicals and risers and ancillary infrastructure, required for the flow and control of hydrocarbons and produced water to the
	This EP covers activities for	subsea infrastructure repair	future 'time lapse' reservoir	

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	the approximately 400 km section of the Trunkline in Commonwealth waters. A separate EP covers activities in State waters.	activities may also be undertaken.	surveillance (or technically termed 4D baseline survey).	Scarborough Floating Production Unit (FPU). Mooring legs and suction piles will also be installed and a gravimentry survey is also planned.
Location:	Activities run from the Scarborough FPU in WA-61-L in Commonwealth waters, about 374 km west-northwest of Dampier, to the State waters boundary at the northern extent of the Dampier Archipelago.	Activities are located in Permit Area WA-61-L in Commonwealth waters, about 374 km west-northwest of Dampier, Western Australia. Approximate development well locations for the eight planned wells are provided in Table 2 of the attached D&C EP Consultation Information Sheet.	The seismic survey will cover the Scarborough and Jupiter fields within Commonwealth waters, located in the Exmouth Plateau, approximately 214 km north west of Exmouth, Western Australia.	Activities are located in permit Areas WA-61-L and WA-62-L, around 374 km west-northwest of Dampier, Western Australia.
Approx. Water Depth (m):	~ 32 m – 1400 m	~ 900 m – 955 m	~ 800 m – 1,150 m	~ 900 m – 1000 m
Earliest commencement date:	Seabed intervention activities: Mid 2023 pending approvals, vessel availability and weather constraints. Trunkline installation activities: Q4 2023 pending successful completion approvals, vessel availability and weather constraints.	Activities planned to commence in H2 2023 pending approvals, vessel availability and weather constraints.	Activities planned to commence in H1 2023 pending approvals, vessel availability and weather constraints.	Activities planned to commence in H2 2023 (and estimated to be completed in 18 months with activities occurring in multiple campaigns).
Estimated duration:	~24 months across multiple campaigns	~50 – 60 days per well	~55 – 70 days	~18 months (cumulative) for the survey and installation activities
Distance from Operational Area to nearest town	The closest Commonwealth section of the trunkline on the State waters boundary is~32 km north-west of Dampier.	~244 km north-northwest of Exmouth, 374 km west-northwest of Dampier.	~214 km north-west of Exmouth.	~ 244 km north-northwest of Exmouth, ~ 374 km west-northwest of Dampier.
Distance from Operational Area to nearest marine park	The trunkline corridor runs through the Montebello Marine Park Montebello Marine Park Multiple Use Zone (Cwth), close to the northern boundary Offshore borrow ground located to the north of the Dampier Marine Park Habitat Protection Zone	~83 km north of the Gascoyne Marine Park (Cwlth) ~206 km north-west of Montebello Marine Park (Cwlth) ~208 km north-northwest of Ningaloo Marine Park (Cwlth)	~46 km north of Gascoyne Marine Park Multiple Use Zone	~ 77 km north of the Gascoyne Marine Park (Cwlth) ~ 201 km north-west of Montebello Marine Park (Cwlth) ~ 180 km north-northwest of Ningaloo Marine Park (Cwlth)
Operational Area and Exclusion Zones	Temporary 500 m exclusion zones will apply around applicable seabed intervention and the Trunkline installation vessels. The Operational Areas are:	A petroleum safety zone of 500 m will be in place around the MODU and installation vessel for the duration of activities. The Operational Areas are:	Three nautical mile radius safe navigation area around the seismic vessel, streamers and tail buoys during seismic operations	The Operational Area for activities includes a radius of: 1,000 m around location of the outermost concrete pads.

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	 Trunkline Project Area: The proposed trunkline 	DP MODU/drillship – 500 m radius from each well	Marine users are requested to avoid this	1,500 m around location of subsea
	from around KP 32 (Commonwealth – State Boundary) to KP 435 and 1.5 km either side of the proposed trunkline centreline. • Offshore Borrow Ground Project Area: Offshore Borrow Ground located in Commonwealth waters.	centre • Moored MODU – 4,000 m radius from each well centre. • Installation vessel – 1,500 m radius around subsea locations	area during the survey to ensure the safety of the seismic vessel and third- party vessels • Refer to Table 3 of the attached Seismic EP Consultation Information Sheet for detailed survey location points	infrastructure. • 2,000 m around future location of FPU. • Temporary 500 m exclusion zone around vessels to manage vessel movements • An interactive map showing the location of the proposed activities will be available on the Woodside website and will be updated throughout the proposed activities
Vessels:	Seabed intervention: Trailing suction hopper dredge Offshore construction vessel Rock Installation Vessel Survey vessels Support vessels Fuel bunkering vessels Trunkline installation: Pipelay Vessel multi-joint operation Shallow Water Lay Barge Anchor handling vessel/tug Pipe supply vessels Offshore construction vessel Survey vessels	Installation vessels for installing the subsea infrastructure Light well intervention vessel as an option for well intervention, subsea hardware installation or contingent activities Support vessels including installation vessel(s), anchor handling vessel(s) and general supply/support vessels	A purpose-built seismic vessel One support vessel A potential chase vessel, and An additional spotter vessel (May to June)	Light construction vessels Heavy construction vessels Heavy lift vessels Derrick lay vessel Reel-lay vessels Survey vessels Support vessels

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Feedback@woodside.com.au or 1800 442 977.

Your feedback and our response will be included in our Environment Plan which will be submitted to submitted to the National Offshore Petroleum Safety and Environmental Management Authority (NOPSEMA) for acceptance in accordance with the Offshore Petroleum and Greenhouse Gas Storage (Environment) Regulations 2009 (Cth).

Please let us know if your feedback for any of the activities proposed under an Environment Plan is sensitive and we will make this known to NOPSEMA upon submission of the Environment Plan to ensure this information remains confidential to NOPSEMA.

Please provide your views by 26 February 2023.

Controlled Ref No: SA0006AH0000008

Regards,

APPENDIX A

FEEDBACK	SITI EP	D&C EP	Seismic EP	Subsea EP

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1.127 Email sent to Western Gas, Exxon Mobil Australia Resources Company, Shell Australia, Finder Energy, KUFPEC, Santos, OMV Australia / Sapura OMV Upstream (WA), (27 January 2023)

WA-61-L and WA-62-L Subsea Infrastructure Installation Environment Plan

Dear Titleholder

Woodside has submitted Environment Plans (EPs) to undertake the following activities in Commonwealth waters for the Scarborough development:

- seabed intervention and trunkline installation activities for the section of the Trunkline in Commonwealth waters under the Scarborough Seabed Intervention and Trunkline Installation EP (SITI EP):
- drilling and subsea tree installation activities for eight planned development wells and the potential for a
 further two additional contingency wells under the WA-61-L Scarborough Drilling and Completions EP (D&C
 EP);
- 4D baseline marine seismic survey (MSS) activities over the Scarborough and Jupiter field under the Scarborough 4D Baseline Marine Seismic Survey EP (Seismic EP); and
- seabed site surveys and installation of subsea production infrastructure under the Subsea Infrastructure Installation EP (Subsea EP).

Updated consultation Information Sheets are attached, which provide additional background on the proposed activities, including summaries of potential key impacts and risks, and associated management measures. These are also available on our <u>website</u>.

As we are inviting consultation with you on each of the EPs above, for ease of reference, we have attached the information in this one email. In an effort to simplify feedback, we have also included a feedback template (Appendix A) which you may wish to use to provide your feedback specific to the proposed EPs.

Woodside has previously submitted Revision 1 of the **SITI EP** to NOPSEMA which has been available on the NOPSEMA website since January 2022 (https://info.nopsema.gov.au/environment_plans/575/show_public). Revision 0 of the **D&C EP** has been available on the NOPSEMA website since November 2021 (https://info.nopsema.gov.au/environment_plans/565/show_public). Revision 0 of the **Seismic EP** has been available on the NOPSEMA website since 18 October 2021 (https://info.nopsema.gov.au/environment_plans/559/show_public).

Woodside is preparing to submit a further revision of the SITI EP, D&C EP and Seismic EP to NOPSEMA with recent changes. We confirm the activities, location and duration described in these revisions remain the same, with no material changes. The Subsea EP has not yet been submitted to NOPSEMA.

The SITI EP, D&C EP and Subsea EP fall under the primary environmental approval of the <u>Scarborough Offshore Project Proposal</u> (OPP). The OPP includes a detailed description of activities, an assessment of the potential impacts and risks and includes management measures to demonstrate that the potential impacts and risks will be of an acceptable level. It was accepted by NOPSEMA in March 2020 after an extensive public consultation process.

More information on the Scarborough Project can be found here.

If you have feedback specific to each of the proposed activities described under the relevant EPs, please respond to Woodside at Feedback@woodside.com.au or 1800 442 977 by **26 February 2023**.

Activity:

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	SITI EP	D&C EP	Seismic EP	Subsea EP
Summary:	Seabed intervention and trunkline installation activities in Commonwealth waters associated with the installation of a carbon steel pipeline (Trunkline) that runs approximately 430 km from the from the proposed offshore Scarborough Floating Production Unit (FPU) to the existing onshore Pluto LNG facility. This EP covers activities for the approximately 400 km section of the Trunkline in Commonwealth waters. A separate EP covers activities in State waters.	Drilling and Completions activities in Commonwealth waters, including drilling and subsea tree installation activities for eight planned development wells and the potential for a further two contingency wells. Woodside may need to intervene, workover or re-drill the wells. Subsea inspection, monitoring, maintenance and subsea infrastructure repair activities may also be undertaken.	4D baseline seismic survey over the Scarborough and Jupiter fields. The proposed survey will be conducted over areas where seismic data has previously been acquired. The objective for the proposed activity is to acquire a new 3D seismic survey data that will provide the baseline for future 'time lapse' reservoir surveillance (or technically termed 4D baseline survey).	Seabed site surveys and installation of subsea production infrastructure. Activities include visual pre- and post-installation surveys, and installation of flowlines, umbilicals and risers and ancillary infrastructure, required for the flow and control of hydrocarbons and produced water to the Scarborough Floating Production Unit (FPU). Mooring legs and suction piles will also be installed and a gravimentry survey is also planned.
Location:	Activities run from the Scarborough FPU in WA-61-L in Commonwealth waters, about 374 km west-northwest of Dampier, to the State waters boundary at the northern extent of the Dampier Archipelago.	Activities are located in Permit Area WA-61-L in Commonwealth waters, about 374 km west-northwest of Dampier, Western Australia. Approximate development well locations for the eight planned wells are provided in Table 2 of the attached D&C EP Consultation Information Sheet.	The seismic survey will cover the Scarborough and Jupiter fields within Commonwealth waters, located in the Exmouth Plateau, approximately 214 km north west of Exmouth, Western Australia.	Activities are located in permit Areas WA-61-L and WA-62-L, around 374 km west-northwest of Dampier, Western Australia.
Approx. Water Depth (m):	~ 32 m – 1400 m	~ 900 m – 955 m	~ 800 m – 1,150 m	~ 900 m – 1000 m
Earliest commencement date:	Seabed intervention activities: Mid 2023 pending approvals, vessel availability and weather constraints. Trunkline installation activities: Q4 2023 pending successful completion approvals, vessel availability and weather constraints.	Activities planned to commence in H2 2023 pending approvals, vessel availability and weather constraints.	Activities planned to commence in H1 2023 pending approvals, vessel availability and weather constraints.	Activities planned to commence in H2 2023 (and estimated to be completed in 18 months with activities occurring in multiple campaigns).
Estimated duration:	~24 months across multiple campaigns	~50 – 60 days per well	~55 – 70 days	~18 months (cumulative) for the survey and installation activities
Distance from Operational Area to nearest town	The closest Commonwealth section of the trunkline on the State waters boundary is~32 km north-west of Dampier.	~244 km north-northwest of Exmouth, 374 km west-northwest of Dampier.	~214 km north-west of Exmouth.	~ 244 km north-northwes of Exmouth, ~ 374 km west-northwest of Dampier.
Distance from Operational Area	The trunkline corridor runs through the Montebello Marine Park – Multiple Use Zone	~83 km north of the Gascoyne Marine Park (Cwlth)	~46 km north of Gascoyne Marine Park Multiple Use Zone	• ~ 77 km north of the Gascoyne Marine Park (Cwlth)

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to nearest marine park	(Cwth), close to the northern boundary • Offshore borrow ground located to the north of the Dampier Marine Park Habitat Protection Zone	~206 km north-west of Montebello Marine Park (Cwlth) ~208 km north-northwest of Ningaloo Marine Park (Cwlth)		 ~ 201 km north-west of Montebello Marine Park (Cwlth) ~ 180 km north- northwest of Ningaloo Marine Park (Cwlth)
Operational Area and Exclusion Zones	Temporary 500 m exclusion zones will apply around applicable seabed intervention and the Trunkline installation vessels. The Operational Areas are: • Trunkline Project Area: The proposed trunkline from around KP 32 (Commonwealth – State Boundary) to KP 435 and 1.5 km either side of the proposed trunkline centreline. • Offshore Borrow Ground Project Area: Offshore Borrow Ground located in Commonwealth waters.	A petroleum safety zone of 500 m will be in place around the MODU and installation vessel for the duration of activities. The Operational Areas are: • DP MODU/drillship – 500 m radius from each well centre • Moored MODU – 4,000 m radius from each well centre. • Installation vessel – 1,500 m radius around subsea locations	Three nautical mile radius safe navigation area around the seismic vessel, streamers and tail buoys during seismic operations Marine users are requested to avoid this area during the survey to ensure the safety of the seismic vessel and third-party vessels Refer to Table 3 of the attached Seismic EP Consultation Information Sheet for detailed survey location points	The Operational Area for activities includes a radius of: 1,000 m around location of the outermost concrete pads. 1,500 m around location of subsea infrastructure. 2,000 m around future location of FPU. Temporary 500 m exclusion zone around vessels to manage vessel movements An interactive map showing the location of the proposed activities will be available on the Woodside website and will be updated throughout the proposed activities
Vessels:	Seabed intervention: Trailing suction hopper dredge Offshore construction vessel Rock Installation Vessel Survey vessels Support vessels Fuel bunkering vessels Trunkline installation: Pipelay Vessel multi-joint operation Shallow Water Lay Barge Anchor handling vessel/tug Pipe supply vessels Offshore construction vessel Survey vessels Fuel bunkering vessels	Installation vessels for installing the subsea infrastructure Light well intervention vessel as an option for well intervention, subsea hardware installation or contingent activities Support vessels including installation vessel(s), anchor handling vessel(s) and general supply/support vessels	A purpose-built seismic vessel One support vessel A potential chase vessel, and An additional spotter vessel (May to June)	Light construction vessels Heavy construction vessels Heavy lift vessels Derrick lay vessel Reel-lay vessels Survey vessels Support vessels

If you have any issues or concerns with these activities, or any other issues relevant to this location, please respond to Woodside at:

Feedback@woodside.com.au or 1800 442 977.

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Your feedback and our response will be included in our Environment Plan which will be submitted to the National Offshore Petroleum Safety and Environmental Management Authority (NOPSEMA) for acceptance in accordance with the Offshore Petroleum and Greenhouse Gas Storage (Environment) Regulations 2009 (Cth).

Please let us know if your feedback for any of the activities proposed under an Environment Plan is sensitive and we will make this known to NOPSEMA upon submission of the Environment Plan to ensure this information remains confidential to NOPSEMA.

Please provide your views by 26 February 2023.

Regards,

APPENDIX A

FEEDBACK	SITI EP	D&C EP	Seismic EP	Subsea EP

1.128 Email sent to BP Developments Australia, Carnarvon Energy, PE Wheatstone, Kyushu Electric Wheatstone, Eni Australia Ltd, Fugro Exploration, JX Nippon O&G Expln (Australia) (27 January 2023)

Dear Titleholder

Woodside has submitted Environment Plans (EPs) to undertake the following activities in Commonwealth waters for the Scarborough development:

- seabed intervention and trunkline installation activities for the section of the Trunkline in Commonwealth waters under the Scarborough Seabed Intervention and Trunkline Installation EP (SITI EP);
- 4D baseline marine seismic survey (MSS) activities over the Scarborough and Jupiter field under the Scarborough 4D Baseline Marine Seismic Survey EP (Seismic EP); and
- seabed site surveys and installation of subsea production infrastructure under the Subsea Infrastructure Installation EP (Subsea EP).

Updated consultation Information Sheets are attached, which provide additional background on the proposed activities, including summaries of potential key impacts and risks, and associated management measures. These are also available on our website.

As we are inviting consultation with you on each of the EPs above, for ease of reference, we have attached the information in this one email. In an effort to simplify feedback, we have also included a feedback template (Appendix A) which you may wish to use to provide your feedback specific to the proposed EPs.

Woodside has previously submitted Revision 1 of the **SITI EP** to NOPSEMA which has been available on the NOPSEMA website since January 2022 (https://info.nopsema.gov.au/environment_plans/575/show_public). Revision 0 of the **Seismic EP** has been available on the NOPSEMA website since 18 October 2021 (https://info.nopsema.gov.au/environment_plans/559/show_public).

Woodside is preparing to submit a further revision of the SITI EP and Seismic EP to NOPSEMA with recent changes. We confirm the activities, location and duration described in these revisions remain the same, with no material changes. The Subsea EP has not yet been submitted to NOPSEMA.

The SITI EP and Subsea EP fall under the primary environmental approval of the <u>Scarborough Offshore Project Proposal</u> (OPP). The OPP includes a detailed description of activities, an assessment of the potential impacts and risks and includes management measures to demonstrate that the potential impacts and risks will be of an acceptable level. It was accepted by NOPSEMA in March 2020 after an extensive public consultation process.

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More information on the Scarborough Project can be found here.

If you have feedback specific to each of the proposed activities described under the relevant EPs, please respond to Woodside at Feedback@woodside.com.au or 1800 442 977 by **26 February 2023**.

Activity:

	SITI EP	Seismic EP	Subsea EP
Summary:	Seabed intervention and trunkline installation activities in Commonwealth waters associated with the installation of a carbon steel pipeline (Trunkline) that runs approximately 430 km from the from the proposed offshore Scarborough Floating Production Unit (FPU) to the existing onshore Pluto LNG facility. This EP covers activities for the approximately 400 km section of the Trunkline in Commonwealth waters. A separate EP covers activities in State waters.	4D baseline seismic survey over the Scarborough and Jupiter fields. The proposed survey will be conducted over areas where seismic data has previously been acquired. The objective for the proposed activity is to acquire a new 3D seismic survey data that will provide the baseline for future 'time lapse' reservoir surveillance (or technically termed 4D baseline survey).	and ancillary infrastructure, required for the flow and control of hydrocarbons and produced water to the Scarborough Floating Production Unit (FPU). Mooring legs and suction piles will also be installed and a gravimentry survey is also planned.
Location:	Activities run from the Scarborough FPU in WA-61-L in Commonwealth waters, about 374 km west-northwest of Dampier, to the State waters boundary at the northern extent of the Dampier Archipelago.	The seismic survey will cover the Scarborough and Jupiter fields within Commonwealth waters, located in the Exmouth Plateau, approximately 214 km north west of Exmouth, Western Australia.	Activities are located in permit Areas WA-61-L and WA-62-L, around 374 km west-northwest of Dampier, Western Australia.
Approx. Water Depth (m):	~ 32 m – 1400 m	~ 800 m – 1,150 m	~ 900 m – 1000 m
Earliest commencement date:	Seabed intervention activities: Mid 2023 pending approvals, vessel availability and weather constraints. Trunkline installation activities: Q4 2023 pending successful completion approvals, vessel availability and weather constraints.	Activities planned to commence in H1 2023 pending approvals, vessel availability and weather constraints.	Activities planned to commence in H2 2023 (and estimated to be completed in 18 months with activities occurring in multiple campaigns).
Estimated duration:	~24 months across multiple campaigns	~55 – 70 days	~18 months (cumulative) for the survey and installation activities
Distance from Operational Area to nearest town	The closest Commonwealth section of the trunkline on the State waters boundary is~32 km north-west of Dampier.	~214 km north-west of Exmouth.	~ 244 km north-northwest of Exmouth, ~ 374 km west-northwest of Dampier.
Distance from Operational Area	The trunkline corridor runs through the Montebello Marine Park – Multiple Use	~46 km north of Gascoyne Marine Park Multiple Use Zone	~ 77 km north of the Gascoyne Marine Park (Cwlth)

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to nearest marine park	Zone (Cwth), close to the northern boundary Offshore borrow ground located to the north of the Dampier Marine Park Habitat Protection Zone		 ~ 201 km north-west of Montebello Marine Park (Cwlth) ~ 180 km north-northwest of Ningaloo Marine Park (Cwlth)
Operational Area and Exclusion Zones	Temporary 500 m exclusion zones will apply around applicable seabed intervention and the Trunkline installation vessels. The Operational Areas are: • Trunkline Project Area: The proposed trunkline from around KP 32 (Commonwealth – State Boundary) to KP 435 and 1.5 km either side of the proposed trunkline centreline. • Offshore Borrow Ground Project Area: Offshore Borrow Ground located in Commonwealth waters.	 Three nautical mile radius safe navigation area around the seismic vessel, streamers and tail buoys during seismic operations Marine users are requested to avoid this area during the survey to ensure the safety of the seismic vessel and third-party vessels Refer to Table 3 of the attached Seismic EP Consultation Information Sheet for detailed survey location points 	The Operational Area for activities includes a radius of: • 1,000 m around location of the outermost concrete pads. • 1,500 m around location of subsea infrastructure. • 2,000 m around future location of FPU. • Temporary 500 m exclusion zone around vessels to manage vessel movements • An interactive map showing the location of the proposed activities will be available on the Woodside website and will be updated throughout the proposed activities
Vessels:	Seabed intervention: Trailing suction hopper dredge Offshore construction vessel Rock Installation Vessel Survey vessels Support vessels Fuel bunkering vessels Trunkline installation: Pipelay Vessel multi-joint operation Shallow Water Lay Barge Anchor handling vessel/tug Pipe supply vessels Offshore construction vessel Survey vessels Fuel bunkering vessels	 A purpose-built seismic vessel One support vessel A potential chase vessel, and An additional spotter vessel (May to June) 	 Light construction vessels Heavy construction vessels Heavy lift vessels Derrick lay vessel Reel-lay vessels Survey vessels Support vessels

If you have any issues or concerns with these activities, or any other issues relevant to this location, please respond to Woodside at:

Feedback@woodside.com.au or 1800 442 977.

Your feedback and our response will be included in our Environment Plan which will be submitted to the National Offshore Petroleum Safety and Environmental Management Authority (NOPSEMA) for acceptance in accordance with the Offshore Petroleum and Greenhouse Gas Storage (Environment) Regulations 2009 (Cth).

Please let us know if your feedback for any of the activities proposed under an Environment Plan is sensitive and we will make this known to NOPSEMA upon submission of the Environment Plan to ensure this information remains confidential to NOPSEMA.

Please provide your views by 26 February 2023.

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Regards,

APPENDIX A

FEEDBACK	SITI EP	Seismic EP	Subsea EP

1.129 Email sent to Karratha Community Liaison Group (27 January 2023)

Dear Karratha Community Liaison Group

Woodside has submitted Environment Plans (EPs) to undertake the following activities in Commonwealth waters for the Scarborough development:

- seabed intervention and trunkline installation activities for the section of the Trunkline in Commonwealth waters under the Scarborough Seabed Intervention and Trunkline Installation EP (SITI EP);
- drilling and subsea tree installation activities for eight planned development wells and the potential for a
 further two additional contingency wells under the WA-61-L Scarborough Drilling and Completions EP (D&C
 EP);
- 4D baseline marine seismic survey (MSS) activities over the Scarborough and Jupiter field under the Scarborough 4D Baseline Marine Seismic Survey EP (Seismic EP); and
- seabed site surveys and installation of subsea production infrastructure under the Subsea Infrastructure Installation EP (Subsea EP).

Updated consultation Information Sheets are attached, which provide additional background on the proposed activities, including summaries of potential key impacts and risks, and associated management measures. These are also available on our website.

As we are inviting consultation with you on each of the EPs above, for ease of reference, we have attached the information in this one email. In an effort to simplify feedback, we have also included a feedback template (Appendix A) which you may wish to use to provide your feedback specific to the proposed EPs.

Woodside has previously submitted Revision 1 of the **SITI EP** to NOPSEMA which has been available on the NOPSEMA website since January 2022 (https://info.nopsema.gov.au/environment_plans/575/show_public). Revision 0 of the **D&C EP** has been available on the NOPSEMA website since November 2021 (https://info.nopsema.gov.au/environment_plans/565/show_public). Revision 0 of the **Seismic EP** has been available on the NOPSEMA website since 18 October 2021 (https://info.nopsema.gov.au/environment_plans/559/show_public).

Woodside is preparing to submit a further revision of the SITI EP, D&C EP and Seismic EP to NOPSEMA with recent changes. We confirm the activities, location and duration described in these revisions remain the same, with no material changes. The Subsea EP has not yet been submitted to NOPSEMA.

The SITI EP, D&C EP and Subsea EP fall under the primary environmental approval of the <u>Scarborough Offshore Project Proposal</u> (OPP). The OPP includes a detailed description of activities, an assessment of the potential impacts and risks and includes management measures to demonstrate that the potential impacts and risks will be of an acceptable level. It was accepted by NOPSEMA in March 2020 after an extensive public consultation process.

More information on the Scarborough Project can be found here.

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If you have feedback specific to each of the proposed activities described under the relevant EPs, please respond to Woodside at Feedback@woodside.com.au or 1800 442 977 by **26 February 2023**.

Activity:

	SITI EP	D&C EP	Seismic EP	Subsea EP
Summary:	Seabed intervention and trunkline installation activities in Commonwealth waters associated with the installation of a carbon steel pipeline (Trunkline) that runs approximately 430 km from the from the proposed offshore Scarborough Floating Production Unit (FPU) to the existing onshore Pluto LNG facility. This EP covers activities for the approximately 400 km section of the Trunkline in Commonwealth waters. A separate EP covers activities in State waters.	Drilling and Completions activities in Commonwealth waters, including drilling and subsea tree installation activities for eight planned development wells and the potential for a further two contingency wells. Woodside may need to intervene, workover or re-drill the wells. Subsea inspection, monitoring, maintenance and subsea infrastructure repair activities may also be undertaken.	proposed activity is to acquire a new 3D seismic survey data that will	Seabed site surveys and installation of subsea production infrastructure. Activities include visual pre- and post-installation surveys, and installation of flowlines, umbilicals and risers and ancillary infrastructure, required for the flow and control of hydrocarbons and produced water to the Scarborough Floating Production Unit (FPU). Mooring legs and suction piles will also be installed and a gravimentry survey is also planned.
Location:	Activities run from the Scarborough FPU in WA-61-L in Commonwealth waters, about 374 km west-northwest of Dampier, to the State waters boundary at the northern extent of the Dampier Archipelago.	Activities are located in Permit Area WA-61-L in Commonwealth waters, about 374 km west-northwest of Dampier, Western Australia. Approximate development well locations for the eight planned wells are provided in Table 2 of the attached D&C EP Consultation Information Sheet.	The seismic survey will cover the Scarborough and Jupiter fields within Commonwealth waters, located in the Exmouth Plateau, approximately 214 km north west of Exmouth, Western Australia.	Activities are located in permit Areas WA-61-L and WA-62-L, around 374 km west-northwest of Dampier, Western
Approx. Water Depth (m):	~ 32 m – 1400 m	~ 900 m – 955 m	~ 800 m – 1,150 m	~ 900 m – 1000 m
Earliest commencement date:	Seabed intervention activities: Mid 2023 pending approvals, vessel availability and weather constraints. Trunkline installation activities: Q4 2023 pending successful completion approvals, vessel availability and weather constraints.	Activities planned to commence in H2 2023 pending approvals, vessel availability and weather constraints.	Activities planned to commence in H1 2023 pending approvals, vessel availability and weather constraints.	Activities planned to commence in H2 2023 (and estimated to be completed in 18 months with activities occurring in multiple campaigns).
Estimated duration:	~24 months across multiple campaigns	~50 – 60 days per well	~55 – 70 days	~18 months (cumulative) for the survey and installation activities
Distance from Operational Area to nearest town	The closest Commonwealth section of the trunkline on the State waters boundary is~32 km north-west of Dampier.	~244 km north-northwest of Exmouth, 374 km west-northwest of Dampier.	~214 km north-west of Exmouth.	~ 244 km north-northwest of Exmouth, ~ 374 km west-northwest of Dampier.

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• The trunkline corridor • ~83 km north of the • ~46 km north of • ~ 77 km north of the Distance from runs through the Gascoyne Marine Park Gascoyne Marine Park Gascoyne Marine Park Operational Area Multiple Use Zone Montebello Marine Park (Cwlth) (Cwlth) to nearest marine ~ 201 km north-west of Multiple Use Zone • ~206 km north-west of park (Cwth), close to the Montebello Marine Montebello Marine Park northern boundary Park (Cwlth) (Cwlth) • Offshore borrow ground • ~208 km north-northwest • ~ 180 km northnorthwest of Ningaloo located to the north of the of Ningaloo Marine Park Dampier Marine Park Marine Park (Cwlth) (Cwlth) Habitat Protection Zone Temporary 500 m exclusion A petroleum safety zone of The Operational Area for • Three nautical mile Operational Area zones will apply around 500 m will be in place around activities includes a radius safe navigation and Exclusion applicable seabed the MODU and installation radius of: area around the seismic Zones intervention and the vessel for the duration of • 1,000 m around vessel, streamers and Trunkline installation activities. location of the tail buoys during seismic The Operational Areas are: vessels. outermost concrete operations The Operational Areas are: • DP MODU/drillship - 500 pads. • Marine users are • Trunkline Project Area: m radius from each well • 1,500 m around requested to avoid this The proposed trunkline centre location of subsea area during the survey to from around KP 32 Moored MODU – 4.000 m infrastructure. ensure the safety of the (Commonwealth - State radius from each well • 2,000 m around future seismic vessel and third-Boundary) to KP 435 and centre. location of FPU. party vessels 1.5 km either side of the Installation vessel – 1,500 • Temporary 500 m • Refer to Table 3 of the proposed trunkline m radius around subsea attached Seismic EP exclusion zone around centreline. locations Consultation Information vessels to manage Offshore Borrow Ground Sheet for detailed survey vessel movements Project Area: Offshore location points An interactive map Borrow Ground located in showing the location of Commonwealth waters. the proposed activities will be available on the Woodside website and will be updated throughout the proposed activities · Installation vessels for • A purpose-built seismic Light construction Seabed intervention: Vessels: installing the subsea vessels vessel • Trailing suction hopper infrastructure • One support vessel Heavy construction dredae Light well intervention vessels A potential chase vessel, • Offshore construction vessel as an option for Heavy lift vessels and vessel well intervention, subsea Derrick lay vessel • An additional spotter Rock Installation Vessel hardware installation or vessel (May to June) Reel-lay vessels Survey vessels contingent activities Survey vessels · Support vessels Support vessels including · Support vessels • Fuel bunkering vessels installation vessel(s), Trunkline installation: anchor handling vessel(s) and general • Pipelay Vessel multi-joint supply/support vessels operation Shallow Water Lay Barge Anchor handling vessel/tug • Pipe supply vessels • Offshore construction vessel • Survey vessels · Fuel bunkering vessels

Feedback:

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If you have any issues or concerns with these activities, or any other issues relevant to this location, please respond to Woodside at:

Feedback@woodside.com.au or 1800 442 977.

Your feedback and our response will be included in our Environment Plan which will be submitted to the National Offshore Petroleum Safety and Environmental Management Authority (NOPSEMA) for acceptance in accordance with the Offshore Petroleum and Greenhouse Gas Storage (Environment) Regulations 2009 (Cth).

Please let us know if your feedback for any of the activities proposed under an Environment Plan is sensitive and we will make this known to NOPSEMA upon submission of the Environment Plan to ensure this information remains confidential to NOPSEMA.

Please provide your views by 26 February 2023.

Regards,

APPENDIX A

FEEDBACK	SITI EP	D&C EP	Seismic EP	Subsea EP

1.130 Email sent to Wirrawandi Aboriginal Corporation (WAC) (27 January 2023)

Hello

It was great to connect by phone this morning. I am looking forward to meeting in person in the very near future. I understand from our discussion that your priority at the moment is to prepare for the upcoming Board meeting on the 20th February.

Thank you so much for enabling an opportunity to meet with me on the 21st February whilst you are in Karratha. I will send a separate meeting request with a proposed time for us to have a general catch up on the information we have sent to date on the RTM and Scarborough EMBA's.

It will be great to gain an understanding from you on best way to progress if the Board wish to have further discussions in relation to this information and also on how they may prefer us to engage for any future information shares.

If you have any questions in the meantime please don't hesitate to reach out on the contact details in my signature below.

Kind regards



1.131 Email sent to Nanda Aboriginal Corporation via Yamatji Marlpa Aboriginal Corporation (YMAC) – 1 February 2023

Good afternoon

I wanted to follow up on the below email and confirm you are the correct contact for the Nanda Aboriginal Corporation (NAC) at YMAC.

I would like to be able to speak with the relevant representative for NAC to ensure that NAC are receiving the relevant information and seek an understanding of whether they would like to discuss any of the information in more detail.

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In relation to the Scarborough project, I again attach the Summary Overview sheet. Woodside is specifically seeking to understand the nature of the interests that NAC and its members may have in the 'environment that may be affected' (EMBA) by this activities outlined in the two Summary Information Sheets for Scarborough Seabed Intervention and Trunkline Installation and Scarborough Subsea Infrastructure Installation.

- 1. A Summary Overview of the Scarborough project;
- 2. Summary Information Sheet Scarborough Seabed Intervention and Trunkline Installation
- 3. Summary Information Sheet Scarborough Subsea Infrastructure Installation

Please don't hesitate to reach out in response to the email or by contacting me on my mobile in the signature below.

Kind regards

1.133 Email sent to Buurabalayji Thalanyji Aboriginal Corporation (BTAC) - 27 January 2023

Hi **E**

I hope your week is travelling nicely.

I left a message this morning, just to reach out to see if you require any further information about Scarborough or the RTM at this point, or whether you need anything from Woodside to assist with BTAC's consideration.

As always, please call / email if you need anything. I would also be more than happy to meet up if you would like, to brief you on these matters and to plan together how Woodside should best approach consultation.

Have a great weekend.

1.134 Email sent to Malgana Aboriginal Corporation - 1 February 2023

Good afternoon and

I wanted to follow up on the below email.

I would like to be able to speak with one or both of you to ensure that you have been receiving my emails, to chat through the attached information and seek an understanding of whether on behalf of the Malgana Aboriginal Corporation (RNTBC) you would like to discuss any of the information in more detail. In relation to the Scarborough project I again attach the Summary Overview sheet. Woodside is specifically seeking to understand the nature of the interests that Malgana Aboriginal Corporation (MAC) and its members may have in the 'environment that may be affected' (EMBA) by this activities outlined in the two Summary Information Sheets for Scarborough Seabed Intervention and Trunkline Installation and Scarborough Subsea Infrastructure Installation.

- 1. A Summary Overview of the Scarborough project;
- 2. Summary Information Sheet Scarborough Seabed Intervention and Trunkline Installation
- 3. Summary Information Sheet Scarborough Subsea Infrastructure Installation

Please don't hesitate to reach out in response to the email or by contacting me on my mobile in the signature below.

Kind regards

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1.135 Email sent to Exmouth CRG -1 February 2023

Dear Exmouth Community Reference Group

Woodside has submitted Environment Plans (EPs) to undertake the following activities in Commonwealth waters for the Scarborough development:

- seabed intervention and trunkline installation activities for the section of the Trunkline in Commonwealth waters under the Scarborough Seabed Intervention and Trunkline Installation EP (SITI EP);
- drilling and subsea tree installation activities for eight planned development wells and the potential for a
 further two additional contingency wells under the WA-61-L Scarborough Drilling and Completions EP (D&C
 EP);
- 4D baseline marine seismic survey (MSS) activities over the Scarborough and Jupiter field under the Scarborough 4D Baseline Marine Seismic Survey EP (Seismic EP); and
- seabed site surveys and installation of subsea production infrastructure under the Subsea Infrastructure Installation EP (Subsea EP).

Updated consultation Information Sheets are attached, which provide additional background on the proposed activities, including summaries of potential key impacts and risks, and associated management measures. These are also available on our website.

As we are inviting consultation with you on each of the EPs above, for ease of reference, we have attached the information in this one email. In an effort to simplify feedback, we have also included a feedback template (Appendix A) which you may wish to use to provide your feedback specific to the proposed EPs.

Woodside has previously submitted Revision 1 of the **SITI EP** to NOPSEMA which has been available on the NOPSEMA website since January 2022 (https://info.nopsema.gov.au/environment_plans/575/show_public). Revision 0 of the **D&C EP** has been available on the NOPSEMA website since November 2021 (https://info.nopsema.gov.au/environment_plans/565/show_public). Revision 0 of the **Seismic EP** has been available on the NOPSEMA website since 18 October 2021 (https://info.nopsema.gov.au/environment_plans/559/show_public).

Woodside is preparing to submit a further revision of the SITI EP, D&C EP and Seismic EP to NOPSEMA with recent changes. We confirm the activities, location and duration described in these revisions remain the same, with no material changes. The Subsea EP has not yet been submitted to NOPSEMA.

The SITI EP, D&C EP and Subsea EP fall under the primary environmental approval of the <u>Scarborough Offshore Project Proposal</u> (OPP). The OPP includes a detailed description of activities, an assessment of the potential impacts and risks and includes management measures to demonstrate that the potential impacts and risks will be of an acceptable level. It was accepted by NOPSEMA in March 2020 after an extensive public consultation process.

More information on the Scarborough Project can be found here.

If you have feedback specific to each of the proposed activities described under the relevant EPs, please respond to Woodside at Feedback@woodside.com.au or 1800 442 977 by **3 March 2023**.

**Activity:

	SITI EP	D&C EP	Seismic EP	Subsea EP
Summary:	Seabed intervention and trunkline installation activities in Commonwealth waters associated with the installation of a carbon steel pipeline (Trunkline) that runs approximately 430 km from the from the proposed offshore Scarborough Floating Production Unit	Drilling and Completions activities in Commonwealth waters, including drilling and subsea tree installation activities for eight planned development wells and the potential for a further two contingency wells. Woodside may need to intervene, workover or re-drill the wells.	proposed activity is to	Seabed site surveys and installation of subsea production infrastructure. Activities include visual pre- and post-installation surveys, and installation of flowlines, umbilicals and risers and ancillary infrastructure, required for the flow and control of

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				1
	(FPU) to the existing onshore Pluto LNG facility. This EP covers activities for the approximately 400 km section of the Trunkline in Commonwealth waters. A separate EP covers activities in State waters.	Subsea inspection, monitoring, maintenance and subsea infrastructure repair activities may also be undertaken.	survey data that will provide the baseline for future 'time lapse' reservoir surveillance (or technically termed 4D baseline survey).	Production Unit (FPU). Mooring legs and suction piles will also be installed and a gravimentry survey is also planned.
Location:	Activities run from the Scarborough FPU in WA-61-L in Commonwealth waters, about 374 km west-northwest of Dampier, to the State waters boundary at the northern extent of the Dampier Archipelago.	Activities are located in Permit Area WA-61-L in Commonwealth waters, about 374 km west- northwest of Dampier, Western Australia. Approximate development well locations for the eight planned wells are provided in Table 2 of the attached D&C EP Consultation Information Sheet.	The seismic survey will cover the Scarborough and Jupiter fields within Commonwealth waters, located in the Exmouth Plateau, approximately 214 km north west of Exmouth, Western Australia.	and WA-62-L, around 374 km west-northwest of Dampier, Western
Approx. Water Depth (m):	~ 32 m – 1400 m	~ 900 m – 955 m	~ 800 m – 1,150 m	~ 900 m – 1000 m
Earliest commencement date:	Seabed intervention activities: Mid 2023 pending approvals, vessel availability and weather constraints. Trunkline installation activities: Q4 2023 pending successful completion approvals, vessel availability and weather constraints.	Activities planned to commence in H2 2023 pending approvals, vessel availability and weather constraints.	Activities planned to commence in H1 2023 pending approvals, vessel availability and weather constraints.	Activities planned to commence in H2 2023 (and estimated to be completed in 18 months with activities occurring in multiple campaigns).
Estimated duration:	~24 months across multiple campaigns	~50 – 60 days per well	~55 – 70 days	~18 months (cumulative) for the survey and installation activities
Distance from Operational Area to nearest town	The closest Commonwealth section of the trunkline on the State waters boundary is~32 km north-west of Dampier.	~244 km north-northwest of Exmouth, 374 km west-northwest of Dampier.	~214 km north-west of Exmouth.	~ 244 km north-northwest of Exmouth, ~ 374 km west-northwest of Dampier.
Distance from Operational Area to nearest marine park	The trunkline corridor runs through the Montebello Marine Park Montebello Marine Park Multiple Use Zone (Cwth), close to the northern boundary Offshore borrow ground located to the north of the Dampier Marine Park Habitat Protection Zone	~83 km north of the Gascoyne Marine Park (Cwlth) ~206 km north-west of Montebello Marine Park (Cwlth) ~208 km north-northwest of Ningaloo Marine Park (Cwlth)	• ~46 km north of Gascoyne Marine Park Multiple Use Zone	~ 77 km north of the Gascoyne Marine Park (Cwlth) ~ 201 km north-west of Montebello Marine Park (Cwlth) ~ 180 km north-northwest of Ningaloo Marine Park (Cwlth)
Operational Area and Exclusion Zones	Temporary 500 m exclusion zones will apply around applicable seabed intervention and the Trunkline installation vessels.	A petroleum safety zone of 500 m will be in place around the MODU and installation vessel for the duration of activities. The Operational Areas are:	Three nautical mile radius safe navigation area around the seismic vessel, streamers and tail buoys during seismic operations	The Operational Area for activities includes a radius of: 1,000 m around location of the

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The Operational Areas are: • DP MODU/drillship – 500 · Marine users are outermost concrete Trunkline Project Area: m radius from each well requested to avoid this pads. The proposed trunkline centre area during the survey to • 1,500 m around from around KP 32 Moored MODU – 4,000 m ensure the safety of the location of subsea (Commonwealth - State radius from each well seismic vessel and thirdinfrastructure. Boundary) to KP 435 and • 2,000 m around future party vessels centre. 1.5 km either side of the • Installation vessel - 1,500 • Refer to Table 3 of the location of FPU. proposed trunkline attached Seismic EP m radius around subsea Temporary 500 m centreline. Consultation Information locations exclusion zone around Sheet for detailed survey • Offshore Borrow Ground vessels to manage location points Project Area: Offshore vessel movements Borrow Ground located in An interactive map Commonwealth waters. showing the location of the proposed activities will be available on the Woodside website and will be updated throughout the proposed activities · Installation vessels for • A purpose-built seismic • Light construction Seabed intervention: Vessels: installing the subsea vessel vessels • Trailing suction hopper infrastructure • One support vessel Heavy construction dredge Light well intervention vessels · A potential chase vessel, Offshore construction vessel as an option for and Heavy lift vessels vessel well intervention, subsea • An additional spotter Derrick lay vessel · Rock Installation Vessel hardware installation or vessel (May to June) Reel-lay vessels • Survey vessels contingent activities Survey vessels Support vessels Support vessels including Support vessels • Fuel bunkering vessels installation vessel(s), Trunkline installation: anchor handling vessel(s) and general • Pipelay Vessel multi-joint supply/support vessels operation Shallow Water Lay Barge Anchor handling vessel/tug • Pipe supply vessels • Offshore construction vessel Survey vessels · Fuel bunkering vessels

Feedback:

If you have any issues or concerns with these activities, or any other issues relevant to this location, please respond to Woodside at:

Feedback@woodside.com.au or 1800 442 977.

Your feedback and our response will be included in our Environment Plan which will be submitted to the National Offshore Petroleum Safety and Environmental Management Authority (NOPSEMA) for acceptance in accordance with the Offshore Petroleum and Greenhouse Gas Storage (Environment) Regulations 2009 (Cth).

Please let us know if your feedback for any of the activities proposed under an Environment Plan is sensitive and we will make this known to NOPSEMA upon submission of the Environment Plan to ensure this information remains confidential to NOPSEMA.

Please provide your views by 3 March 2023.

Regards,

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APPENDIX A

FEEDBACK	SITI EP	D&C EP	Seismic EP	Subsea EP

1.136 Email sent to Department of Planning, Lands and Heritage (DPLH) (1 February 2023)

Dear Department of Planning, Lands and Heritage (DPLH)

Woodside has submitted Environment Plans (EPs) to undertake the following activities in Commonwealth waters for the Scarborough development:

- seabed intervention and trunkline installation activities for the section of the Trunkline in Commonwealth waters under the Scarborough Seabed Intervention and Trunkline Installation EP (SITI EP);
- seabed site surveys and installation of subsea production infrastructure under the Subsea Infrastructure Installation EP (**Subsea EP**).

Updated consultation Information Sheets are attached, which provide additional background on the proposed activities, including summaries of potential key impacts and risks, and associated management measures. These are also available on our website.

Woodside advises there are a number of historical shipwrecks which have been recorded within the 'environment that may be affected' (EMBA) for the proposed activities. Please find a list relevant to each EP attached.

As we are inviting consultation with you on each of the EPs above, for ease of reference, we have attached the information in this one email. In an effort to simplify feedback, we have also included a feedback template (Appendix A) which you may wish to use to provide your feedback specific to the proposed EPs.

Woodside has previously submitted Revision 1 of the **SITI EP** to NOPSEMA which has been available on the NOPSEMA website since January 2022 (https://info.nopsema.gov.au/environment_plans/575/show_public). Woodside is preparing to submit a further revision of the SITI EP to NOPSEMA with recent changes. We confirm the activities, location and duration described in this revision remains the same, with no material changes. The Subsea EP has not yet been submitted to NOPSEMA.

The SITI EP and Subsea EP fall under the primary environmental approval of the <u>Scarborough Offshore Project Proposal</u> (OPP). The OPP includes a detailed description of activities, an assessment of the potential impacts and risks and includes management measures to demonstrate that the potential impacts and risks will be of an acceptable level. It was accepted by NOPSEMA in March 2020 after an extensive public consultation process.

More information on the Scarborough Project can be found here.

If you have feedback specific to each of the proposed activities described under the relevant EPs, please respond to Woodside at Feedback@woodside.com.au or 1800 442 977 by **3 March 2023**.

Activity:

	SITI EP	Subsea EP
Summary:	Seabed intervention and trunkline installation activities in Commonwealth waters associated with the installation of a carbon steel pipeline (Trunkline) that runs approximately 430 km from the from the proposed offshore Scarborough Floating Production Unit (FPU) to the existing onshore Pluto LNG	Seabed site surveys and installation of subsea production infrastructure. Activities include visual pre- and post-installation surveys, and installation of flowlines, umbilicals and risers and ancillary infrastructure, required for the flow and control of hydrocarbons and produced water to

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	facility. This EP covers activities for the approximately 400 km section of the Trunkline in Commonwealth waters. A separate EP covers activities in State waters.	the Scarborough Floating Production Unit (FPU). Mooring legs and suction piles will also be installed and a gravimentry survey is also planned.
Location:	Activities run from the Scarborough FPU in WA-61-L in Commonwealth waters, about 374 km west-northwest of Dampier, to the State waters boundary at the northern extent of the Dampier Archipelago.	
Approx. Water	~ 32 m – 1400 m	~ 900 m – 1000 m
Depth (m):	0 1 11 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Earliest commencement date:	Seabed intervention activities: Mid 2023 pending approvals, vessel availability and weather constraints.	Activities planned to commence in H2 2023 (and estimated to be completed in 18 months with activities occurring in multiple campaigns).
	Trunkline installation activities: Q4 2023 pending successful completion approvals, vessel availability and weather constraints.	
Estimated duration:	~24 months across multiple campaigns	~18 months (cumulative) for the survey and installation activities
Distance from Operational Area to nearest town	The closest Commonwealth section of the trunkline on the State waters boundary is~32 km north-west of Dampier.	~ 244 km north-northwest of Exmouth, ~ 374 km west-northwest of Dampier.
Distance from Operational Area to nearest marine park	The trunkline corridor runs through the Montebello Marine Park – Multiple Use Zone (Cwth), close to the northern boundary Offshore borrow ground located to the north of the Dampier Marine Park Habitat Protection Zone	 ~ 77 km north of the Gascoyne Marine Park (Cwlth) ~ 201 km north-west of Montebello Marine Park (Cwlth) ~ 180 km north-northwest of Ningaloo Marine Park (Cwlth)
Operational Area and Exclusion Zones	Temporary 500 m exclusion zones will apply around applicable seabed intervention and the Trunkline installation vessels. The Operational Areas are:	The Operational Area for activities includes a radius of: • 1,000 m around location of the outermost concrete pads. • 1,500 m around location of subsea infrastructure. • 2,000 m around future location of FPU. • Temporary 500 m exclusion zone around vessels to manage vessel movements • An interactive map showing the location of the proposed activities will be available on the Woodside website and will be updated throughout the proposed activities
Vessels:	Seabed intervention: Trailing suction hopper dredge Offshore construction vessel Rock Installation Vessel Survey vessels Support vessels Fuel bunkering vessels Fuel bunkering vessels Trunkline installation: Pipelay Vessel multi-joint operation Shallow Water Lay Barge Anchor handling vessel/tug	 Light construction vessels Heavy construction vessels Heavy lift vessels Derrick lay vessel Reel-lay vessels Survey vessels Support vessels

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•	Pipe supply vessels	
•	Offshore construction vessel	
•	Survey vessels	
•	Fuel bunkering vessels	

If you have any issues or concerns with these activities, or any other issues relevant to this location, please respond to Woodside at:

Feedback@woodside.com.au or 1800 442 977.

Your feedback and our response will be included in our Environment Plan which will be submitted to the National Offshore Petroleum Safety and Environmental Management Authority (NOPSEMA) for acceptance in accordance with the *Offshore Petroleum and Greenhouse Gas Storage (Environment) Regulations 2009* (Cth).

Please let us know if your feedback for any of the activities proposed under an Environment Plan is sensitive and we will make this known to NOPSEMA upon submission of the Environment Plan to ensure this information remains confidential to NOPSEMA.

Please provide your views by 3 March 2023.

Regards,

APPENDIX A

FEEDBACK	SITI EP	Subsea EP

1.137 Email sent to Western Australian Museum (1 February 2023)

Dear Western Australian Museum

Woodside has submitted Environment Plans (EPs) to undertake the following activities in Commonwealth waters for the Scarborough development:

- seabed intervention and trunkline installation activities for the section of the Trunkline in Commonwealth waters under the Scarborough Seabed Intervention and Trunkline Installation EP (SITI EP):
- seabed site surveys and installation of subsea production infrastructure under the Subsea Infrastructure Installation EP (**Subsea EP**).

Updated consultation Information Sheets are attached, which provide additional background on the proposed activities, including summaries of potential key impacts and risks, and associated management measures. These are also available on our <u>website</u>.

Woodside advises there are a number of historical shipwrecks which have been recorded within the 'environment that may be affected' (EMBA) for the proposed activities. Please find a list relevant to each EP attached.

As we are inviting consultation with you on each of the EPs above, for ease of reference, we have attached the information in this one email. In an effort to simplify feedback, we have also included a feedback template (Appendix A) which you may wish to use to provide your feedback specific to the proposed EPs.

Woodside has previously submitted Revision 1 of the **SITI EP** to NOPSEMA which has been available on the NOPSEMA website since January 2022 (https://info.nopsema.gov.au/environment_plans/575/show_public). Woodside is preparing to submit a further revision of the SITI EP to NOPSEMA with recent changes. We confirm

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any process (electronic or otherwise) without the specific written consent of	of Woodside.	All rights	are reserved			

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the activities, location and duration described in this revision remains the same, with no material changes. The Subsea EP has not yet been submitted to NOPSEMA.

The SITI EP and Subsea EP fall under the primary environmental approval of the <u>Scarborough Offshore Project Proposal</u> (OPP). The OPP includes a detailed description of activities, an assessment of the potential impacts and risks and includes management measures to demonstrate that the potential impacts and risks will be of an acceptable level. It was accepted by NOPSEMA in March 2020 after an extensive public consultation process.

More information on the Scarborough Project can be found here.

If you have feedback specific to each of the proposed activities described under the relevant EPs, please respond to Woodside at Feedback@woodside.com.au or 1800 442 977 by 3 March 2023.

Activity:

	SITI EP	Subsea EP
Summary:	Seabed intervention and trunkline installation activities in Commonwealth waters associated with the installation of a carbon steel pipeline (Trunkline) that runs approximately 430 km from the from the proposed offshore Scarborough Floating Production Unit (FPU) to the existing onshore Pluto LNG facility. This EP covers activities for the approximately 400 km section of the Trunkline in Commonwealth waters. A separate EP covers activities in State waters.	Seabed site surveys and installation of subsea production infrastructure. Activities include visual pre- and post-installation surveys, and installation of flowlines, umbilicals and risers and ancillary infrastructure, required for the flow and control of hydrocarbons and produced water to the Scarborough Floating Production Unit (FPU). Mooring legs and suction piles will also be installed and a gravimentry survey is also planned.
Location:	Activities run from the Scarborough FPU in WA-61-L in Commonwealth waters, about 374 km west-northwest of Dampier, to the State waters boundary at the northern extent of the Dampier Archipelago.	Activities are located in permit Areas WA-61-L and WA-62-L, around 374 km west-northwest of Dampier, Western Australia.
Approx. Water Depth (m):	~ 32 m – 1400 m	~ 900 m – 1000 m
Earliest	Seabed intervention activities: Mid 2023 pending approvals, vessel availability and weather	Activities planned to commence in H2 2023 (and estimated to be completed in 18 months with
date:	constraints. Trunkline installation activities: Q4 2023 pending successful completion approvals, vessel availability and weather constraints.	activities occurring in multiple campaigns).
Estimated duration:	~24 months across multiple campaigns	~18 months (cumulative) for the survey and installation activities
Distance from Operational Area to nearest town	The closest Commonwealth section of the trunkline on the State waters boundary is~32 km north-west of Dampier.	~ 244 km north-northwest of Exmouth, ~ 374 km west-northwest of Dampier.
Distance from Operational Area to nearest marine park	 The trunkline corridor runs through the Montebello Marine Park – Multiple Use Zone (Cwth), close to the northern boundary Offshore borrow ground located to the north of the Dampier Marine Park Habitat Protection Zone 	Ningaloo Marine Park (Cwlth)
Operational Area and Exclusion Zones	Temporary 500 m exclusion zones will apply around applicable seabed intervention and the Trunkline installation vessels. The Operational Areas are: Trunkline Project Area: The proposed trunkline from around KP 32 (Commonwealth – State Boundary) to KP	The Operational Area for activities includes a radius of: 1,000 m around location of the outermost concrete pads. 1,500 m around location of subsea infrastructure.

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	435 and 1.5 km either side of the proposed trunkline centreline. Offshore Borrow Ground Project Area: Offshore Borrow Ground located in Commonwealth waters.	 2,000 m around future location of FPU. Temporary 500 m exclusion zone around vessels to manage vessel movements An interactive map showing the location of the proposed activities will be available on the Woodside website and will be updated throughout the proposed activities
Vessels:	Seabed intervention: Trailing suction hopper dredge Offshore construction vessel Rock Installation Vessel Survey vessels Support vessels Fuel bunkering vessels Trunkline installation: Pipelay Vessel multi-joint operation Shallow Water Lay Barge Anchor handling vessel/tug Pipe supply vessels Offshore construction vessel Survey vessels Fuel bunkering vessels	 Light construction vessels Heavy construction vessels Heavy lift vessels Derrick lay vessel Reel-lay vessels Survey vessels Support vessels

If you have any issues or concerns with these activities, or any other issues relevant to this location, please respond to Woodside at:

Feedback@woodside.com.au or 1800 442 977.

Your feedback and our response will be included in our Environment Plan which will be submitted to the National Offshore Petroleum Safety and Environmental Management Authority (NOPSEMA) for acceptance in accordance with the *Offshore Petroleum and Greenhouse Gas Storage (Environment) Regulations 2009* (Cth).

Please let us know if your feedback for any of the activities proposed under an Environment Plan is sensitive and we will make this known to NOPSEMA upon submission of the Environment Plan to ensure this information remains confidential to NOPSEMA.

Please provide your views by 3 March 2023.

Regards,

APPENDIX A

FEEDBACK	SITI EP	Subsea EP

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1.138 State Shipwrecks information sent to DPLH, Western Australian Museum (1 February 2023)

Scarborough Seabed Intervention and Trunkline Installation (SITI)

	Year			
Vessel name	wrecked	Wreck location	Latitude	Longitude
Benan	1886/12/23	Point Cloates	113.6733333	-22.74266667
Perth SS	1887/09/17	Point Cloates	113.6403333	-22.69416667
Rapid	1811/01/07	Ningaloo Reef	113.6833333	-22.73333333
Stefano	1875/10/27	Point Cloates	113.7195	-22.82883333
Trial	1622/05/24	Trial Rocks	115.3736667	-20.28716667
Zvir SS	27/11/1902	Point Cloates	113.626	-22.60916667
Mildura SS	12/03/1907	North-West Cape	114.1666667	-21.78566667
Fin SS	15/02/1923	Point Cloates, Fraser Island	113.6268333	-22.64883333
Lady Ann	18/09/1982	24 miles north of NW Cape	114.2	-21.4

WA-61-L and WA-62-L Subsea Infrastructure Installation EP (Subsea EP)

Vessel name	Year wrecked	Wreck location	Latitude	Longitude
Trial	1622/05/24	Trial Rocks	115.3736667	-20.28716667
Lady Ann	18/09/1982	24 miles north of NW Cape	114.2	-21.4

1.139 Email sent to Commonwealth Fisheries Association (CFA), Australian Southern Bluefin Tuna Industry Association (ASBTIA) and Tuna Australia, North West Slope and Trawl Fishery (4 Licence Holders), Western Deepwater Trawl Fishery (5 Licence Holders) (3 February 2023)

Dear Fishery Stakeholder

Woodside has submitted Environment Plans (EPs) to undertake the following activities in Commonwealth waters for the Scarborough development:

- seabed intervention and trunkline installation activities for the section of the Trunkline in Commonwealth waters under the Scarborough Seabed Intervention and Trunkline Installation EP (SITI EP);
- drilling and subsea tree installation activities for eight planned development wells and the potential for a
 further two additional contingency wells under the WA-61-L Scarborough Drilling and Completions EP (D&C
 EP);
- 4D baseline marine seismic survey (MSS) activities over the Scarborough and Jupiter field under the Scarborough 4D Baseline Marine Seismic Survey EP (Seismic EP); and
- seabed site surveys and installation of subsea production infrastructure under the Subsea Infrastructure Installation EP (**Subsea EP**).

Consultation Information Sheets are attached, which provide background on the proposed activities, including summaries of potential key impacts and risks, and associated management measures. These are also available on our website. Also attached are Commonwealth fishery figures.

As we are inviting consultation with you on each of the EPs above, for ease of reference, we have attached the information in this one email. In an effort to simplify feedback, we have also included a feedback template (Appendix A) which you may wish to use to provide your feedback specific to the proposed EPs.

Woodside has previously submitted Revision 1 of the **SITI EP** to NOPSEMA which has been available on the NOPSEMA website since January 2022 (https://info.nopsema.gov.au/environment_plans/575/show_public). Revision 0 of the **D&C EP** has been available on the NOPSEMA website since November 2021 (https://info.nopsema.gov.au/environment_plans/565/show_public). Revision 0 of the **Seismic EP** has been

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available on the NOPSEMA website since 18 October 2021 (https://info.nopsema.gov.au/environment_plans/559/show_public).

Woodside is preparing to submit a further revision of the SITI EP, D&C EP and Seismic EP to NOPSEMA with recent changes. We confirm the activities, location and duration described in these revisions remain the same, with no material changes. The Subsea EP has not yet been submitted to NOPSEMA.

The SITI EP, D&C EP and Subsea EP fall under the primary environmental approval of the <u>Scarborough Offshore Project Proposal</u> (OPP). The OPP includes a detailed description of activities, an assessment of the potential impacts and risks and includes management measures to demonstrate that the potential impacts and risks will be of an acceptable level. It was accepted by NOPSEMA in March 2020 after an extensive public consultation process.

More information on the Scarborough Project can be found here.

If you have feedback specific to each of the proposed activities described under the relevant EPs, please respond to Woodside at Feedback@woodside.com.au or 1800 442 977 by **5 March 2023**.

Activity:

	SITI EP	D&C EP	Seismic EP	Subsea EP
Summary:	Seabed intervention and trunkline installation activities in Commonwealth waters associated with the installation of a carbon steel pipeline (Trunkline) that runs approximately 430 km from the from the proposed offshore Scarborough Floating Production Unit (FPU) to the existing onshore Pluto LNG facility. This EP covers activities for the approximately 400 km section of the Trunkline in Commonwealth waters. A separate EP covers activities in State waters.	may need to intervene, workover or re-drill the wells. Subsea inspection, monitoring, maintenance and subsea infrastructure repair activities may also be undertaken.	proposed activity is to acquire a new 3D seismic survey data that will provide the baseline for future 'time lapse' reservoir surveillance (or technically termed 4D baseline survey).	Seabed site surveys and installation of subsea production infrastructure. Activities include visual pre- and post-installation surveys, and installation of flowlines, umbilicals and risers and ancillary infrastructure, required for the flow and control of hydrocarbons and produced water to the Scarborough Floating Production Unit (FPU). Mooring legs and suction piles will also be installed and a gravimentry survey is also planned.
Location:	Activities run from the Scarborough FPU in WA-61-L in Commonwealth waters, about 374 km west-northwest of Dampier, to the State waters boundary at the northern extent of the Dampier Archipelago.	Activities are located in Permit Area WA-61-L in Commonwealth waters, about 374 km west-northwest of Dampier, Western Australia. Approximate development well locations for the eight planned wells are provided in Table 2 of the attached D&C EP Consultation Information Sheet.		Activities are located in permit Areas WA-61-L and WA-62-L, around 374 km west-northwest of Dampier, Western Australia.
Approx. Water Depth (m):	~ 32 m – 1400 m	~ 900 m – 955 m	~ 800 m – 1,150 m	~ 900 m – 1000 m
Earliest commencement date:	Seabed intervention activities: Mid 2023 pending approvals, vessel availability and weather constraints.	Activities planned to commence in H2 2023 pending approvals, vessel availability and weather constraints.	Activities planned to commence in H1 2023 pending approvals, vessel availability and weather constraints.	Activities planned to commence in H2 2023 (and estimated to be completed in 18 months with activities occurring in multiple campaigns).

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Estimated duration: Distance from Operational Area to nearest town	Trunkline installation activities: Q4 2023 pending successful completion approvals, vessel availability and weather constraints. ~24 months across multiple campaigns The closest Commonwealth section of the trunkline on the State waters boundary is~32 km north-west of Dampier.	~50 – 60 days per well ~244 km north-northwest of Exmouth, 374 km west-northwest of Dampier.	~55 – 70 days ~214 km north-west of Exmouth.	~18 months (cumulative) for the survey and installation activities ~ 244 km north-northwest of Exmouth, ~ 374 km west-northwest of Dampier.
Distance from Operational Area to nearest marine park	The trunkline corridor runs through the Montebello Marine Park Montebello Marine Park Multiple Use Zone (Cwth), close to the northern boundary Offshore borrow ground located to the north of the Dampier Marine Park Habitat Protection Zone	~83 km north of the Gascoyne Marine Park (Cwlth) ~206 km north-west of Montebello Marine Park (Cwlth) ~208 km north-northwest of Ningaloo Marine Park (Cwlth)	• ~46 km north of Gascoyne Marine Park Multiple Use Zone	 ~ 77 km north of the Gascoyne Marine Park (Cwlth) ~ 201 km north-west of Montebello Marine Park (Cwlth) ~ 180 km north-northwest of Ningaloo Marine Park (Cwlth)
Operational Area and Exclusion Zones	Temporary 500 m exclusion zones will apply around applicable seabed intervention and the Trunkline installation vessels. The Operational Areas are: • Trunkline Project Area: The proposed trunkline from around KP 32 (Commonwealth – State Boundary) to KP 435 and 1.5 km either side of the proposed trunkline centreline. • Offshore Borrow Ground Project Area: Offshore Borrow Ground located in Commonwealth waters.	A petroleum safety zone of 500 m will be in place around the MODU and installation vessel for the duration of activities. The Operational Areas are: • DP MODU/drillship – 500 m radius from each well centre • Moored MODU – 4,000 m radius from each well centre. • Installation vessel – 1,500 m radius around subsea locations	Three nautical mile radius safe navigation area around the seismic vessel, streamers and tail buoys during seismic operations Marine users are requested to avoid this area during the survey to ensure the safety of the seismic vessel and third-party vessels Refer to Table 3 of the attached Seismic EP Consultation Information Sheet for detailed survey location points	 infrastructure. 2,000 m around future location of FPU. Temporary 500 m exclusion zone around vessels to manage vessel movements An interactive map showing the location of the proposed activities will be available on the Woodside website and will be updated throughout the proposed activities
Vessels:	Seabed intervention: Trailing suction hopper dredge Offshore construction vessel Rock Installation Vessel Survey vessels Support vessels Fuel bunkering vessels Trunkline installation:	 Installation vessels for installing the subsea infrastructure Light well intervention vessel as an option for well intervention, subsea hardware installation or contingent activities Support vessels including installation vessel(s), anchor handling vessel(s) 	 A purpose-built seismic vessel One support vessel A potential chase vessel, and An additional spotter vessel (May to June) 	 Light construction vessels Heavy construction vessels Heavy lift vessels Derrick lay vessel Reel-lay vessels Survey vessels Support vessels

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Pipelay Vessel multi-joint operation Shallow Water Lay Barge	and general supply/support vessels	
Anchor handling vessel/tug		
Pipe supply vessels Offshore construction vessel		
Survey vessels Fuel bunkering vessels		

Feedback:

If you have any issues or concerns with these activities, or any other issues relevant to this location, please respond to Woodside at:

Feedback@woodside.com.au or 1800 442 977.

Your feedback and our response will be included in our Environment Plan which will be submitted to the National Offshore Petroleum Safety and Environmental Management Authority (NOPSEMA) for acceptance in accordance with the Offshore Petroleum and Greenhouse Gas Storage (Environment) Regulations 2009 (Cth).

Please let us know if your feedback for any of the activities proposed under an Environment Plan is sensitive and we will make this known to NOPSEMA upon submission of the Environment Plan to ensure this information remains confidential to NOPSEMA.

Please provide your views by 5 March 2023.

Regards,

ΔΡΡΕΝΟΙΧ Δ

FEEDBACK	SITI EP	D&C EP	Seismic EP	Subsea EP

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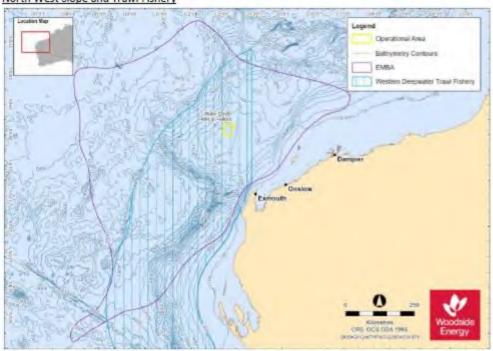
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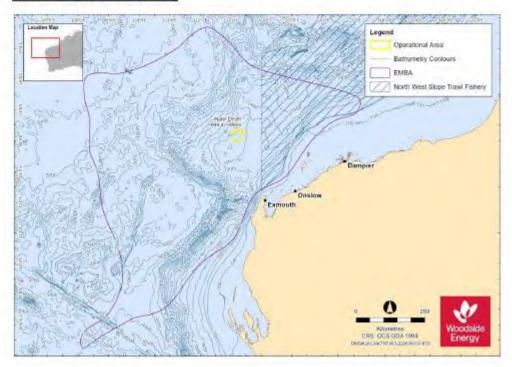
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Subsea Infrastructure Installation EP (Subsea EP)

North West Slope and Trawl Fishery



Western Deepwater Trawl Fishery



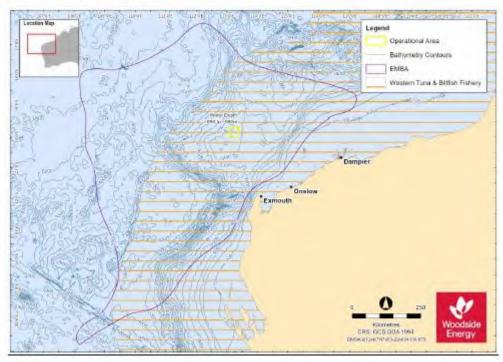
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Western Tuna and Billfish Fishery



1.140 Email sent to Western Tuna and Billfish Fishery (3 Licence Holders) (3 February 2023)

Dear Fishery Stakeholder

Woodside has submitted Environment Plans (EPs) to undertake the following activities in Commonwealth waters for the Scarborough development:

- seabed intervention and trunkline installation activities for the section of the Trunkline in Commonwealth waters under the Scarborough Seabed Intervention and Trunkline Installation EP (SITI EP);
- seabed site surveys and installation of subsea production infrastructure under the Subsea Infrastructure Installation EP (**Subsea EP**).

Updated consultation Information Sheets are attached, which provide additional background on the proposed activities, including summaries of potential key impacts and risks, and associated management measures. These are also available on our <u>website</u>. Also attached are Commonwealth fishery figures.

As we are inviting consultation with you on each of the EPs above, for ease of reference, we have attached the information in this one email. In an effort to simplify feedback, we have also included a feedback template (Appendix A) which you may wish to use to provide your feedback specific to the proposed EPs.

Woodside has previously submitted Revision 1 of the **SITI EP** to NOPSEMA which has been available on the NOPSEMA website since January 2022 (https://info.nopsema.gov.au/environment_plans/575/show_public). Woodside is preparing to submit a further revision of the SITI EP to NOPSEMA with recent changes. We confirm the activities, location and duration described in this revision remains the same, with no material changes. The Subsea EP has not yet been submitted to NOPSEMA.

The SITI EP and Subsea EP fall under the primary environmental approval of the <u>Scarborough Offshore Project Proposal</u> (OPP). The OPP includes a detailed description of activities, an assessment of the potential impacts and risks and includes management measures to demonstrate that the potential impacts and risks will be of an acceptable level. It was accepted by NOPSEMA in March 2020 after an extensive public consultation process.

More information on the Scarborough Project can be found here.

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If you have feedback specific to each of the proposed activities described under the relevant EPs, please respond to Woodside at Feedback@woodside.com.au or 1800 442 977 by **5 March 2023**.

Activity:

	SITI EP	Subsea EP
Summary:	Seabed intervention and trunkline installation activities in Commonwealth waters associated with the installation of a carbon steel pipeline (Trunkline) that runs approximately 430 km from the from the proposed offshore Scarborough Floating Production Unit (FPU) to the existing onshore Pluto LNG facility. This EP covers activities for the approximately 400 km section of the Trunkline in Commonwealth waters. A separate EP covers activities in State waters.	Seabed site surveys and installation of subsea production infrastructure. Activities include visual pre- and post-installation surveys, and installation of flowlines, umbilicals and risers and ancillary infrastructure, required for the flow and control of hydrocarbons and produced water to the Scarborough Floating Production Unit (FPU). Mooring legs and suction piles will also be installed and a gravimentry survey is also planned.
Location:	Activities run from the Scarborough FPU in WA-61-L in Commonwealth waters, about 374 km west-northwest of Dampier, to the State waters boundary at the northern extent of the Dampier Archipelago.	and WA-62-L, around 374 km west-northwest of Dampier, Western Australia.
Approx. Water Depth (m):	~ 32 m – 1400 m	~ 900 m – 1000 m
Earliest commencement date:	Seabed intervention activities: Mid 2023 pending approvals, vessel availability and weather constraints. Trunkline installation activities: Q4 2023 pending successful completion approvals, vessel availability and weather constraints.	Activities planned to commence in H2 2023 (and estimated to be completed in 18 months with activities occurring in multiple campaigns).
Estimated duration:	~24 months across multiple campaigns	~18 months (cumulative) for the survey and installation activities
Distance from Operational Area to nearest town	The closest Commonwealth section of the trunkline on the State waters boundary is~32 km north-west of Dampier.	~ 244 km north-northwest of Exmouth, ~ 374 km west-northwest of Dampier.
Distance from Operational Area to nearest marine park	 The trunkline corridor runs through the Montebello Marine Park – Multiple Use Zone (Cwth), close to the northern boundary Offshore borrow ground located to the north of the Dampier Marine Park Habitat Protection Zone 	 ~ 77 km north of the Gascoyne Marine Park (Cwlth) ~ 201 km north-west of Montebello Marine Park (Cwlth) ~ 180 km north-northwest of Ningaloo Marine Park (Cwlth)
Operational Area and Exclusion Zones	Temporary 500 m exclusion zones will apply around applicable seabed intervention and the Trunkline installation vessels. The Operational Areas are:	The Operational Area for activities includes a radius of: 1,000 m around location of the outermost concrete pads. 1,500 m around location of subsea infrastructure. 2,000 m around future location of FPU. Temporary 500 m exclusion zone around vessels to manage vessel movements An interactive map showing the location of the proposed activities will be available on the Woodside website and will be updated throughout the proposed activities

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Vessels:	Seabed intervention: Trailing suction hopper dredge Offshore construction vessel Rock Installation Vessel Survey vessels Support vessels Fuel bunkering vessels Trunkline installation: Pipelay Vessel multi-joint operation	 Light construction vessels Heavy construction vessels Heavy lift vessels Derrick lay vessel Reel-lay vessels Survey vessels Support vessels
	• •	1
		Support vessels
	 Pipelay Vessel multi-joint 	
	operation	
	 Shallow Water Lay Barge 	
	 Anchor handling vessel/tug 	
	 Pipe supply vessels 	
	 Offshore construction vessel 	
	 Survey vessels 	
	Fuel bunkering vessels	

Feedback:

If you have any issues or concerns with these activities, or any other issues relevant to this location, please respond to Woodside at:

Feedback@woodside.com.au or 1800 442 977.

Your feedback and our response will be included in our Environment Plan which will be submitted to the National Offshore Petroleum Safety and Environmental Management Authority (NOPSEMA) for acceptance in accordance with the *Offshore Petroleum and Greenhouse Gas Storage (Environment) Regulations* 2009 (Cth).

Please let us know if your feedback for any of the activities proposed under an Environment Plan is sensitive and we will make this known to NOPSEMA upon submission of the Environment Plan to ensure this information remains confidential to NOPSEMA.

Please provide your views by 5 March 2023.

Regards,

APPENDIX A

FEEDBACK	SITI EP	Subsea EP

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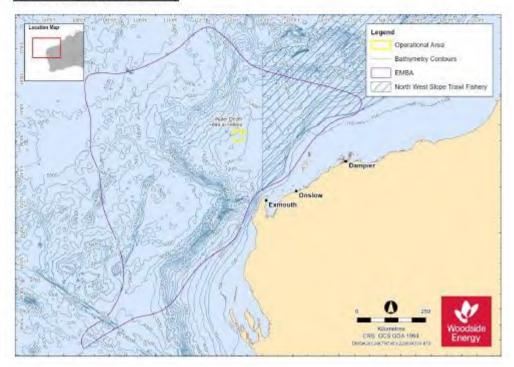
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Subsea Infrastructure Installation EP (Subsea EP)

North West Slope and Trawl Fishery



Western Deepwater Trawl Fishery



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Western Tuna and Billfish Fishery Legend Operational Area Ballfymelry Contours EMBA Western Tuna & Billish Fishery Omslew Exmouth Omslew Exmouth Omslew Exmouth

1.141 Email sent to Pilbara Trawl Fishery (6 Licence Holders) and Pilbara Trap Fishery (6 Licence Holders) (3 February 2023)

Dear Fishery Stakeholder

Woodside has submitted Environment Plans (EPs) to undertake the following activities in Commonwealth waters for the Scarborough development:

- seabed intervention and trunkline installation activities for the section of the Trunkline in Commonwealth waters under the Scarborough Seabed Intervention and Trunkline Installation EP (SITI EP):
- seabed site surveys and installation of subsea production infrastructure under the Subsea Infrastructure Installation EP (**Subsea EP**).

Updated consultation Information Sheets are attached, which provide additional background on the proposed activities, including summaries of potential key impacts and risks, and associated management measures. These are also available on our <u>website</u>. Also attached are State fishery figures.

As we are inviting consultation with you on each of the EPs above, for ease of reference, we have attached the information in this one email. In an effort to simplify feedback, we have also included a feedback template (Appendix A) which you may wish to use to provide your feedback specific to the proposed EPs.

Woodside has previously submitted Revision 1 of the **SITI EP** to NOPSEMA which has been available on the NOPSEMA website since January 2022 (https://info.nopsema.gov.au/environment_plans/575/show_public). Woodside is preparing to submit a further revision of the SITI EP to NOPSEMA with recent changes. We confirm the activities, location and duration described in this revision remains the same, with no material changes. The Subsea EP has not yet been submitted to NOPSEMA.

The SITI EP and Subsea EP fall under the primary environmental approval of the <u>Scarborough Offshore Project Proposal</u> (OPP). The OPP includes a detailed description of activities, an assessment of the potential impacts and risks and includes management measures to demonstrate that the potential impacts and risks will be of an acceptable level. It was accepted by NOPSEMA in March 2020 after an extensive public consultation process.

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More information on the Scarborough Project can be found here.

If you have feedback specific to each of the proposed activities described under the relevant EPs, please respond to Woodside at Feedback@woodside.com.au or 1800 442 977 by **5 March 2023**.

Activity:

	SITI EP	Subsea EP		
Summary:	Seabed intervention and trunkline installation activities in Commonwealth waters associated with the installation of a carbon steel pipeline (Trunkline) that runs approximately 430 km from the from the proposed offshore Scarborough Floating Production Unit (FPU) to the existing onshore Pluto LNG facility. This EP covers activities for the approximately 400 km section of the Trunkline in Commonwealth waters. A separate EP covers activities in State waters.	Seabed site surveys and installation of subsea production infrastructure. Activities include visual pre- and post-installation surveys, and installation of flowlines, umbilicals and risers and ancillary infrastructure, required for the flow and control of hydrocarbons and produced water to the Scarborough Floating Production Unit (FPU). Mooring legs and suction piles will also be installed and a gravimentry survey is also planned.		
Location:	Activities run from the Scarborough FPU in WA-61-L in Commonwealth waters, about 374 km west-northwest of Dampier, to the State waters boundary at the northern extent of the Dampier Archipelago.	Activities are located in permit Areas WA-61-L and WA-62-L, around 374 km west-northwest of Dampier, Western Australia.		
Approx. Water	~ 32 m – 1400 m	~ 900 m – 1000 m		
Depth (m):	Cooked intervention activities MI LOCCO	A stirition planned to account to the Cooper to		
Earliest commencement date:	Seabed intervention activities: Mid 2023 pending approvals, vessel availability and weather constraints. Trunkline installation activities:	Activities planned to commence in H2 2023 (and estimated to be completed in 18 months with activities occurring in multiple campaigns).		
	Q4 2023 pending successful completion approvals, vessel availability and weather constraints.			
Estimated duration:	~24 months across multiple campaigns	~18 months (cumulative) for the survey and installation activities		
Distance from Operational Area to nearest town	The closest Commonwealth section of the trunkline on the State waters boundary is~32 km north-west of Dampier.	~ 244 km north-northwest of Exmouth, ~ 374 kr west-northwest of Dampier.		
Distance from Operational Area to nearest marine park	 The trunkline corridor runs through the Montebello Marine Park – Multiple Use Zone (Cwth), close to the northern boundary Offshore borrow ground located to the north of the Dampier Marine Park Habitat Protection Zone 	 ~ 77 km north of the Gascoyne Marine Park (Cwlth) ~ 201 km north-west of Montebello Marine Park (Cwlth) ~ 180 km north-northwest of Ningaloo Marine Park (Cwlth) 		
Operational Area and Exclusion Zones	Temporary 500 m exclusion zones will apply around applicable seabed intervention and the Trunkline installation vessels. The Operational Areas are: Trunkline Project Area: The proposed trunkline from around KP 32 (Commonwealth – State Boundary) to KP 435 and 1.5 km either side of the proposed trunkline centreline. Offshore Borrow Ground Project Area: Offshore Borrow Ground located in Commonwealth waters.	The Operational Area for activities includes a radius of: 1,000 m around location of the outermost concrete pads. 1,500 m around location of subsea infrastructure. 2,000 m around future location of FPU. Temporary 500 m exclusion zone around vessels to manage vessel movements An interactive map showing the location of the proposed activities will be available on the Woodside website		

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		and will be updated throughout the proposed activities
essels:	Seabed intervention: Trailing suction hopper dredge Offshore construction vessel Rock Installation Vessel Survey vessels Support vessels Fuel bunkering vessels Fuel bunkering vessels Fipelay Vessel multi-joint operation Shallow Water Lay Barge Anchor handling vessel/tug Pipe supply vessels Offshore construction vessel Survey vessels Fuel bunkering vessels	 Light construction vessels Heavy construction vessels Heavy lift vessels Derrick lay vessel Reel-lay vessels Survey vessels Support vessels

Feedback:

If you have any issues or concerns with these activities, or any other issues relevant to this location, please respond to Woodside at:

Feedback@woodside.com.au or 1800 442 977.

Your feedback and our response will be included in our Environment Plan which will be submitted to the National Offshore Petroleum Safety and Environmental Management Authority (NOPSEMA) for acceptance in accordance with the *Offshore Petroleum and Greenhouse Gas Storage (Environment) Regulations 2009* (Cth).

Please let us know if your feedback for any of the activities proposed under an Environment Plan is sensitive and we will make this known to NOPSEMA upon submission of the Environment Plan to ensure this information remains confidential to NOPSEMA.

Please provide your views by 5 March 2023.

Regards,

APPENDIX A

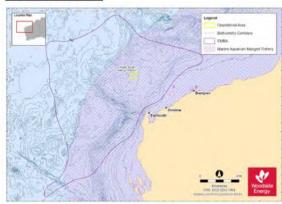
FEEDBACK	SITI EP	Subsea EP

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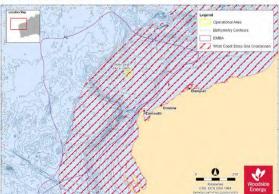
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Subsea Infrastructure Installation EP (Subsea EP)

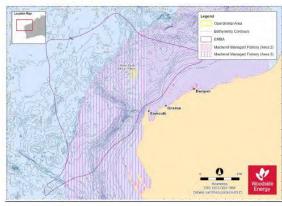
Marine Aquarium Managed Fishery



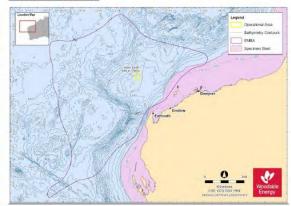
West Coast Deep Sea Crustacean Managed Fishery



Mackerel Managed Fishery (Area 2 and 3



Specimen Shell Managed Fishery



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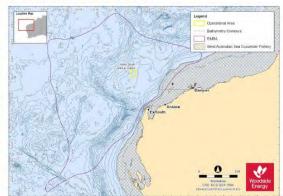
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Onslow Prawn Managed Fishery



Western Australian Sea Cucumber Managed Fishery



Nickol Bay Prawn Managed Fishery



Gascoyne Demersal Scalefish Fishery



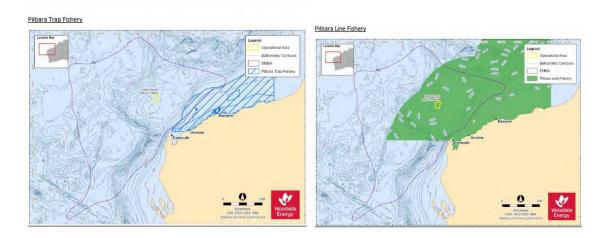
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Pilbara Trawi Fishery Generative No. Pilbara Trawi Fishery Commons Employee Commons Employee Commons Co



1.142 Letter sent to Marine Aquarium Managed Fishery (12 Licence Holders), Mackerel Managed Fishery (Area 2 and 3) (43 Licence Holders), West Coast Deep Sea Crustacean Managed Fishery (7 Licence Holders) (3 February 2023)

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Please direct all responses/queries to: WoodsIde Feedback T: 1800 442 977 E: Feedback@woodside.com.au

3 February 2023



Woodside Energy Group Ltd

ACN 004 898 962

Mia Yellagonga 11 Mount Street Perth WA 6000

Perth WA 600 Australia

T: +61 8 9348 4000 www.woodside.com

Dear Fishery Stakeholder

Woodside previously consulted you on its submitted Environment Plans (EPs) to undertake the following activities in Commonwealth waters for the Scarborough development:

- seabed intervention and trunkline installation activities for the section of the Trunkline in Commonwealth waters under the Scarborough Seabed Intervention and Trunkline Installation EP (SITI EP);
- drilling and subsea tree installation activities for eight planned development wells and the potential for a further two additional contingency wells under the WA-61-L Scarborough Drilling and Completions EP (D&C EP);
- 4D baseline marine seismic survey (MSS) activities over the Scarborough and Jupiter field under the Scarborough 4D Baseline Marine Seismic Survey EP (Seismic EP); and
- seabed site surveys and installation of subsea production infrastructure under the Subsea Infrastructure Installation EP (Subsea EP).

Updated consultation Information Sheets are attached, which provide additional background on the proposed activities, including summaries of potential key impacts and risks, and associated management measures. These are also available on our <u>website</u>. **Also attached are State fishery figures.**

As we are inviting consultation with you on each of the EPs above, for ease of reference, we have attached the information in this one email. In an effort to simplify feedback, we have also included a feedback template (Appendix A) which you may wish to use to provide your feedback specific to the proposed EPs.

Woodside has previously submitted Revision 1 of the SITI EP to NOPSEMA which has been available on the NOPSEMA website since January 2022 (https://info.nopsema.gov.au/environment plans/575/show public). Revision 0 of the D&C EP has been available on the NOPSEMA website since November 2021 (https://info.nopsema.gov.au/environment plans/565/show public). Revision 0 of the Seismic EP has been available on the NOPSEMA website since 18 October 2021 (https://info.nopsema.gov.au/environment plans/559/show public).

Woodside is preparing to submit a further revision of the SITI EP, D&C EP and Seismic EP to NOPSEMA with recent changes. We confirm the activities, location and duration described in these revisions remain the same, with no material changes. The Subsea EP has not yet been submitted to NOPSEMA.

The SITI EP, D&C EP and Subsea EP fall under the primary environmental approval of the Scarborough Offshore Project Proposal (OPP). The OPP includes a detailed description of activities, an assessment of the potential impacts and risks and includes management measures to demonstrate that the potential impacts and risks will be of an acceptable level. It was accepted by NOPSEMA in March 2020 after an extensive public consultation process.

More information on the Scarborough Project can be found here.

If you have feedback specific to each of the proposed activities described under the relevant EPs, please respond to Woodside at Feedback@woodside.com.au or 1800 442 977 by 5 March 2023 2023.

Activity:

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	SITI EP	D&C EP	Seismic EP	Subsea EP
Summary:	Seabed intervention and trunkline installation activities in Commonwealth waters associated with the installation of a carbon steel pipeline (Trunkline) that runs approximately 430 km from the from the proposed offshore Scarborough Floating Production Unit (FPU) to the existing onshore Pluto LNG facility. This EP covers activities for the approximately 400 km section of the Trunkline in Commonwealth waters. A separate EP covers activities in State waters.	Drilling and Completions activities in Commonwealth waters, including drilling and subsea tree installation activities for eight planned development wells and the potential for a further two contingency wells. Woodside may need to intervene, workover or redrill the wells. Subsea inspection, monitoring, maintenance and subsea infrastructure repair activities may also be undertaken.	seismic data has previously been acquired. The objective for the proposed activity is to acquire a new 3D seismic survey data that will provide the baseline for future 'time lapse' reservoir surveillance (or technically termed 4D baseline survey).	infrastructure. Activities include visual pre- and post- installation surveys, and installation of flowlines, umbilicals and risers and ancillary infrastructure, required for the flow and control of hydrocarbons and produced water to the Scarborough Floating Production Unit (FPU). Mooring legs and suction piles will also be installed and a gravimentry survey is also planned.
Location:	Activities run from the Scarborough FPU in WA- 61-L in Commonwealth waters, about 374 km west-northwest of Dampier, to the State waters boundary at the northern extent of the Dampier Archipelago.	Activities are located in Permit Area WA-61-L in Commonwealth waters, about 374 km west-northwest of Dampier, Western Australia. Approximate development well locations for the eight planned wells are provided in Table 2 of the attached D&C EP Consultation Information Sheet.		Activities are located in permit Areas WA-61-L and WA-62-L, around 374 km west-northwest of Dampier, Western Australia.
Approx. Water Depth (m):	~ 32 m – 1400 m	~ 900 m – 955 m	~ 800 m – 1,150 m	~ 900 m – 1000 m
Earliest commencement date:	Seabed intervention activities: Mid 2023 pending approvals, vessel availability and weather constraints. Trunkline installation activities: Q4 2023 pending successful completion approvals, vessel availability and weather constraints.	Activities planned to commence in H2 2023 pending approvals, vessel availability and weather constraints.	vessel availability and weather constraints.	Activities planned to commence in H2 2023 (and estimated to be completed in 18 months with activities occurring in multiple campaigns).
Estimated duration:	~24 months across multiple campaigns	~50 – 60 days per well	~55 – 70 days	~18 months (cumulative) for the survey and installation activities

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Distance from Operational Area to nearest town	The closest Commonwealth section of the trunkline on the State waters boundary is~32 km north-west of Dampier. • The trunkline corridor	~244 km north-northwest of Exmouth, 374 km west-northwest of Dampier. • ~83 km north of the	• ~46 km north of	~ 244 km north- northwest of Exmouth, ~ 374 km west- northwest of Dampier. • ~ 77 km north of the
Operational Area to nearest marine park	runs through the Montebello Marine Park – Multiple Use Zone (Cwth), close to the northern boundary Offshore borrow ground located to the north of the Dampier Marine Park Habitat Protection Zone	Gascoyne Marine Park (Cwlth)	Gascoyne Marine Park Multiple Use Zone	Gascoyne Marine Park (Cwlth)
Operational Area and Exclusion Zones	Temporary 500 m exclusion zones will apply around applicable seabed intervention and the Trunkline installation vessels. The Operational Areas are: • Trunkline Project Area: The proposed trunkline from around KP 32 (Commonwealth – State Boundary) to KP 435 and 1.5 km either side of the proposed trunkline centreline. • Offshore Borrow Ground Project Area: Offshore Borrow Ground located in Commonwealth waters.	A petroleum safety zone of 500 m will be in place around the MODU and installation vessel for the duration of activities. The Operational Areas are: • DP MODU/drillship – 500 m radius from each well centre • Moored MODU – 4,000 m radius from each well centre. • Installation vessel – 1,500 m radius around subsea locations	Three nautical mile radius safe navigation area around the seismic vessel, streamers and tail buoys during seismic operations Marine users are requested to avoid this area during the survey to ensure the safety of the seismic vessel and third-party vessels Refer to Table 3 of the attached Seismic EP Consultation Information Sheet for detailed survey location points	around vessels to manage vessel movements • An interactive map showing the location of the proposed activities will be available on the Woodside website and will be updated throughout the proposed activities
Vessels:	Seabed intervention: • Trailing suction hopper dredge • Offshore construction vessel • Rock Installation Vessel • Survey vessels • Support vessels • Fuel bunkering vessels Trunkline installation: • Pipelay Vessel multijoint operation	Installation vessels for installing the subsea infrastructure Light well intervention vessel as an option for well intervention, subsea hardware installation or contingent activities Support vessels including installation vessel(s), anchor handling vessel(s) and general supply/support	A purpose-built seismic vessel One support vessel A potential chase vessel, and An additional spotter vessel (May to June)	Light construction vessels Heavy construction vessels Heavy lift vessels Derrick lay vessel Reel-lay vessels Survey vessels Support vessels

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Shallow Water Lay	vessels	
Barge		
 Anchor handling 		
vessel/tug		
 Pipe supply vessels 		
 Offshore construction 		
vessel		
 Survey vessels 		
 Fuel bunkering vessels 		

Feedback:

If you have any issues or concerns with these activities, or any other issues relevant to this location, please respond to Woodside at:

Feedback@woodside.com.au or 1800 442 977.

Your feedback and our response will be included in our Environment Plan which will be submitted to submitted to the National Offshore Petroleum Safety and Environmental Management Authority (NOPSEMA) for acceptance in accordance with the Offshore Petroleum and Greenhouse Gas Storage (Environment) Regulations 2009 (Cth).

Please let us know if your feedback for any of the activities proposed under an Environment Plan is sensitive and we will make this known to NOPSEMA upon submission of the Environment Plan to ensure this information remains confidential to NOPSEMA.

Please provide your views by 5 March 2023.

Regards,

Woodside Feedback



Woodside Energy Mia Yellagonga Karlak, 11 Mount Street Perth WA 6000 Australia T: 1800 442 977

E: feedback@woodside.com.au

www.woodside.com

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APPENDIX A

FEEDBACK	SITI EP	D&C EP	Seismic EP	Subsea EP

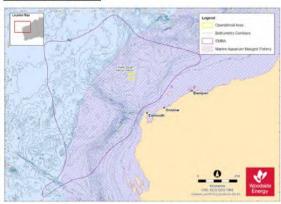
Attached: Consultation Information Sheets for the SITI EP, D&C EP, Seismic EP and Subsea EP, Fishery figures

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Subsea Infrastructure Installation EP (Subsea EP)

Marine Aquarium Managed Fishery



West Coast Deep Sea Crustacean Managed Fishery | Section | Continue | Contin

Mackerel Managed Fishery (Area 2 and 3)

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Specimen Shell Managed rishery

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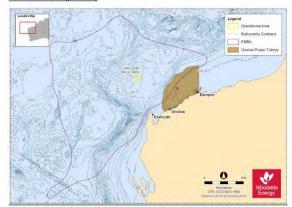
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Onslow Prawn Managed Fishery



Western Australian Sea Cucumber Managed Fishery



Nickol Bay Prawn Managed Fishery



Gascoyne Demersal Scalefish Fishery



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Pilbara Trawl Fishery



Pilbara Trap Fishery





1.143 Email sent to Department of Primary Industries and Regional Development (DPIRD) (3 February 2023)

Dear

Woodside previously consulted you on its submitted Environment Plans (EPs) to undertake the following activities in Commonwealth waters for the Scarborough development:

- seabed intervention and trunkline installation activities for the section of the Trunkline in Commonwealth waters under the Scarborough Seabed Intervention and Trunkline Installation EP (SITI EP);
- drilling and subsea tree installation activities for eight planned development wells and the potential for a
 further two additional contingency wells under the WA-61-L Scarborough Drilling and Completions EP
 (D&C EP);
- 4D baseline marine seismic survey (MSS) activities over the Scarborough and Jupiter field under the Scarborough 4D Baseline Marine Seismic Survey EP (Seismic EP); and
- seabed site surveys and installation of subsea production infrastructure under the Subsea Infrastructure Installation EP (Subsea EP).

Updated consultation Information Sheets are attached, which provide additional background on the proposed activities, including summaries of potential key impacts and risks, and associated management measures. These are also available on our <u>website</u>. **Also attached are State fishery figures.**

As we are inviting consultation with you on each of the EPs above, for ease of reference, we have attached the information in this one email. In an effort to simplify feedback, we have also included a feedback template (Appendix A) which you may wish to use to provide your feedback specific to the proposed EPs.

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Woodside has previously submitted Revision 1 of the **SITI EP** to NOPSEMA which has been available on the NOPSEMA website since January 2022 (https://info.nopsema.gov.au/environment_plans/575/show_public). Revision 0 of the **D&C EP** has been available on the NOPSEMA website since November 2021 (https://info.nopsema.gov.au/environment_plans/565/show_public). Revision 0 of the **Seismic EP** has been available on the NOPSEMA website since 18 October 2021 (https://info.nopsema.gov.au/environment_plans/559/show_public).

Woodside is preparing to submit a further revision of the SITI EP, D&C EP and Seismic EP to NOPSEMA with recent changes. We confirm the activities, location and duration described in these revisions remain the same, with no material changes. The Subsea EP has not yet been submitted to NOPSEMA.

The SITI EP, D&C EP and Subsea EP fall under the primary environmental approval of the <u>Scarborough Offshore Project Proposal</u> (OPP). The OPP includes a detailed description of activities, an assessment of the potential impacts and risks and includes management measures to demonstrate that the potential impacts and risks will be of an acceptable level. It was accepted by NOPSEMA in March 2020 after an extensive public consultation process.

More information on the Scarborough Project can be found here.

If you have feedback specific to each of the proposed activities described under the relevant EPs, please respond to Woodside at Feedback@woodside.com.au or 1800 442 977 by **5 March 2023 2023**.

Activity:

	SITI EP	D&C EP	Seismic EP	Subsea EP
Summary:	Seabed intervention and trunkline installation activities in Commonwealth waters associated with the installation of a carbon steel pipeline (Trunkline) that runs approximately 430 km from the from the proposed offshore Scarborough Floating Production Unit (FPU) to the existing onshore Pluto LNG facility. This EP covers activities for the approximately 400 km section of the Trunkline in Commonwealth waters. A separate EP covers activities in State waters.	Drilling and Completions activities in Commonwealth waters, including drilling and subsea tree installation activities for eight planned development wells and the potential for a further two contingency wells. Woodside may need to intervene, workover or re-drill the wells. Subsea inspection, monitoring, maintenance and subsea infrastructure repair activities may also be undertaken.	4D baseline seismic survey over the Scarborough and Jupiter fields. The proposed survey will be conducted over areas where seismic data has previously been acquired. The objective for the proposed activity is to acquire a new 3D seismic survey data that will provide the baseline for future 'time lapse' reservoir surveillance (or technically termed 4D baseline survey).	Seabed site surveys and installation of subsea production infrastructure. Activities include visual pre- and post-installation surveys, and installation of flowlines, umbilicals and risers and ancillary infrastructure, required for the flow and control of hydrocarbons and produced water to the Scarborough Floating Production Unit (FPU). Mooring legs and suction piles will also be installed and a gravimentry survey is also planned.
Location:	Activities run from the Scarborough FPU in WA-61-L in Commonwealth waters, about 374 km west-northwest of Dampier, to the State waters boundary at the northern extent of the Dampier Archipelago.	Activities are located in Permit Area WA-61-L in Commonwealth waters, about 374 km west-northwest of Dampier, Western Australia. Approximate development well locations for the eight planned wells are provided in Table 2 of the attached D&C EP Consultation Information Sheet.	The seismic survey will cover the Scarborough and Jupiter fields within Commonwealth waters, located in the Exmouth Plateau, approximately 214 km north west of Exmouth, Western Australia.	Activities are located in permit Areas WA-61-L and WA-62-L, around 374 km west-northwest of Dampier, Western
Approx. Water Depth (m):	~ 32 m – 1400 m	~ 900 m – 955 m	~ 800 m – 1,150 m	~ 900 m – 1000 m

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Earliest commencement date:	Seabed intervention activities: Mid 2023 pending approvals, vessel availability and weather constraints. Trunkline installation activities: Q4 2023 pending successful completion approvals, vessel availability and	Activities planned to commence in H2 2023 pending approvals, vessel availability and weather constraints.	Activities planned to commence in H1 2023 pending approvals, vessel availability and weather constraints.	Activities planned to commence in H2 2023 (and estimated to be completed in 18 months with activities occurring in multiple campaigns).
Estimated duration:	weather constraints. ~24 months across multiple campaigns	~50 – 60 days per well	~55 – 70 days	~18 months (cumulative) for the survey and installation activities
Distance from Operational Area to nearest town	The closest Commonwealth section of the trunkline on the State waters boundary is~32 km north-west of Dampier.	~244 km north-northwest of Exmouth, 374 km west-northwest of Dampier.	~214 km north-west of Exmouth.	~ 244 km north-northwest of Exmouth, ~ 374 km west-northwest of Dampier.
Distance from Operational Area to nearest marine park	The trunkline corridor runs through the Montebello Marine Park Multiple Use Zone (Cwth), close to the northern boundary Offshore borrow ground located to the north of the Dampier Marine Park Habitat Protection Zone	~83 km north of the Gascoyne Marine Park (Cwlth) ~206 km north-west of Montebello Marine Park (Cwlth) ~208 km north-northwest of Ningaloo Marine Park (Cwlth)	~46 km north of Gascoyne Marine Park Multiple Use Zone	~ 77 km north of the Gascoyne Marine Park (Cwlth) ~ 201 km north-west of Montebello Marine Park (Cwlth) ~ 180 km north-northwest of Ningaloo Marine Park (Cwlth)
Operational Area and Exclusion Zones	Temporary 500 m exclusion zones will apply around applicable seabed intervention and the Trunkline installation vessels. The Operational Areas are: • Trunkline Project Area: The proposed trunkline from around KP 32 (Commonwealth – State Boundary) to KP 435 and 1.5 km either side of the proposed trunkline centreline. • Offshore Borrow Ground Project Area: Offshore Borrow Ground located in Commonwealth waters.	A petroleum safety zone of 500 m will be in place around the MODU and installation vessel for the duration of activities. The Operational Areas are: • DP MODU/drillship – 500 m radius from each well centre • Moored MODU – 4,000 m radius from each well centre. • Installation vessel – 1,500 m radius around subsea locations	Three nautical mile radius safe navigation area around the seismic vessel, streamers and tail buoys during seismic operations Marine users are requested to avoid this area during the survey to ensure the safety of the seismic vessel and third-party vessels Refer to Table 3 of the attached Seismic EP Consultation Information Sheet for detailed survey location points	outermost concrete pads. • 1,500 m around location of subsea infrastructure. • 2,000 m around future location of FPU. • Temporary 500 m exclusion zone around vessels to manage
Vessels:	Seabed intervention: • Trailing suction hopper dredge • Offshore construction vessel	Installation vessels for installing the subsea infrastructure Light well intervention vessel as an option for	A purpose-built seismic vessel One support vessel A potential chase vessel, and	Light construction vessels Heavy construction

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	k Installation Vessel	′	 An additional spotter 	 Derrick lay vessel
• Surv	vey vessels	hardware installation or	vessel (May to June)	 Reel-lay vessels
• Sup	port vessels	contingent activities		Survey vessels
• Fue	l bunkering vessels	Support vessels including		Support vessels
Trunkli	ine installation:	installation vessel(s),		
ope • Sha • Anc vess • Pipe • Offs vess • Surv	elay Vessel multi-joint ration Illow Water Lay Barge whor handling sel/tug e supply vessels shore construction sel vey vessels I bunkering vessels	anchor handling vessel(s) and general supply/support vessels		

Feedback:

If you have any issues or concerns with these activities, or any other issues relevant to this location, please respond to Woodside at:

Feedback@woodside.com.au or 1800 442 977.

Your feedback and our response will be included in our Environment Plan which will be submitted to the National Offshore Petroleum Safety and Environmental Management Authority (NOPSEMA) for acceptance in accordance with the Offshore Petroleum and Greenhouse Gas Storage (Environment) Regulations 2009 (Cth).

Please let us know if your feedback for any of the activities proposed under an Environment Plan is sensitive and we will make this known to NOPSEMA upon submission of the Environment Plan to ensure this information remains confidential to NOPSEMA.

Please provide your views by 5 March 2023.

Regards,

APPENDIX A

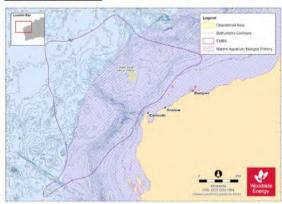
FEEDBACK	SITI EP	D&C EP	Seismic EP	Subsea EP

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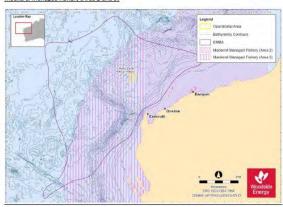
Subsea Infrastructure Installation EP (Subsea EP)

Marine Aquarium Managed Fishery



West Coast Deep Sea Crustacean Managed Fishery | September | Control of Cont

Mackerel Managed Fishery (Area 2 and 3)



Specimen Shell Managed Fishery



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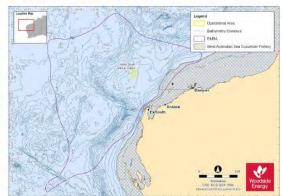
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Onslow Prawn Managed Fishery



Western Australian Sea Cucumber Managed Fishery



Nickol Bay Prawn Managed Fishery



Gascoyne Demersal Scalefish Fishery



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Pilbara Trawl Fishery



Pilbara Trap Fishery





1.144 Email sent to Western Australian Fishing Industry Council (WAFIC) (3 February 2023)

Dear

Woodside previously consulted you on its submitted Environment Plans (EPs) to undertake the following activities in Commonwealth waters for the Scarborough development:

- seabed intervention and trunkline installation activities for the section of the Trunkline in Commonwealth
 waters under the Scarborough Seabed Intervention and Trunkline Installation EP (SITI EP);
- drilling and subsea tree installation activities for eight planned development wells and the potential for a
 further two additional contingency wells under the WA-61-L Scarborough Drilling and Completions EP
 (D&C EP);
- 4D baseline marine seismic survey (MSS) activities over the Scarborough and Jupiter field under the Scarborough 4D Baseline Marine Seismic Survey EP (Seismic EP); and
- seabed site surveys and installation of subsea production infrastructure under the Subsea Infrastructure Installation EP (Subsea EP).

Updated consultation Information Sheets are attached, which provide additional background on the proposed activities, including summaries of potential key impacts and risks, and associated management measures. These are also available on our website. **Also attached are State fishery figures.**

As we are inviting consultation with you on each of the EPs above, for ease of reference, we have attached the information in this one email. In an effort to simplify feedback, we have also included a feedback template (Appendix A) which you may wish to use to provide your feedback specific to the proposed EPs.

Woodside has previously submitted Revision 1 of the **SITI EP** to NOPSEMA which has been available on the NOPSEMA website since January 2022 (https://info.nopsema.gov.au/environment_plans/575/show_public). Revision 0 of the **D&C EP** has been available on the NOPSEMA website since November 2021

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(https://info.nopsema.gov.au/environment_plans/565/show_public). Revision 0 of the **Seismic EP** has been available on the NOPSEMA website since 18 October 2021 (https://info.nopsema.gov.au/environment_plans/559/show_public).

Woodside is preparing to submit a further revision of the SITI EP, D&C EP and Seismic EP to NOPSEMA with recent changes. We confirm the activities, location and duration described in these revisions remain the same, with no material changes. The Subsea EP has not yet been submitted to NOPSEMA.

The SITI EP, D&C EP and Subsea EP fall under the primary environmental approval of the <u>Scarborough Offshore Project Proposal</u> (OPP). The OPP includes a detailed description of activities, an assessment of the potential impacts and risks and includes management measures to demonstrate that the potential impacts and risks will be of an acceptable level. It was accepted by NOPSEMA in March 2020 after an extensive public consultation process.

More information on the Scarborough Project can be found here.

If you have additional feedback specific to each of the proposed activities described under the relevant EPs, please respond to Woodside at <u>Feedback@woodside.com.au</u> or 1800 442 977 by **5 March 2023 2023**.

Activity:

	SITI EP	D&C EP	Seismic EP	Subsea EP
Summary:	Seabed intervention and trunkline installation activities in Commonwealth waters associated with the installation of a carbon steel pipeline (Trunkline) that runs approximately 430 km from the from the proposed offshore Scarborough Floating Production Unit (FPU) to the existing onshore Pluto LNG facility. This EP covers activities for the approximately 400 km section of the Trunkline in Commonwealth waters. A separate EP covers activities in State waters.	may need to intervene, workover or re-drill the wells. Subsea inspection, monitoring, maintenance and subsea infrastructure repair activities may also be undertaken.	4D baseline seismic survey over the Scarborough and Jupiter fields. The proposed survey will be conducted over areas where seismic data has previously been acquired. The objective for the proposed activity is to acquire a new 3D seismic survey data that will provide the baseline for future 'time lapse' reservoir surveillance (or technically termed 4D baseline survey).	Seabed site surveys and installation of subsea production infrastructure. Activities include visual pre- and post-installation surveys, and installation of flowlines, umbilicals and risers and ancillary infrastructure, required for the flow and control of hydrocarbons and produced water to the Scarborough Floating Production Unit (FPU). Mooring legs and suction piles will also be installed and a gravimentry survey is also planned.
Location:	Activities run from the Scarborough FPU in WA-61-L in Commonwealth waters, about 374 km west-northwest of Dampier, to the State waters boundary at the northern extent of the Dampier Archipelago.	Activities are located in Permit Area WA-61-L in Commonwealth waters, about 374 km west-northwest of Dampier, Western Australia. Approximate development well locations for the eight planned wells are provided in Table 2 of the attached D&C EP Consultation Information Sheet.	The seismic survey will cover the Scarborough and Jupiter fields within Commonwealth waters, located in the Exmouth Plateau, approximately 214 km north west of Exmouth, Western Australia.	Activities are located in permit Areas WA-61-L and WA-62-L, around 374 km west-northwest of Dampier, Western Australia.
Approx. Water Depth (m):	~ 32 m – 1400 m	~ 900 m – 955 m	~ 800 m – 1,150 m	~ 900 m – 1000 m
Earliest commencement date:	Seabed intervention activities: Mid 2023 pending approvals, vessel availability and weather constraints.	Activities planned to commence in H2 2023 pending approvals, vessel availability and weather constraints.	Activities planned to commence in H1 2023 pending approvals, vessel availability and weather constraints.	Activities planned to commence in H2 2023 (and estimated to be completed in 18 months

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				with activities occurring in
	Trunkline installation activities: Q4 2023 pending successful completion approvals, vessel availability and weather constraints.			multiple campaigns).
Estimated duration:	~24 months across multiple campaigns	~50 – 60 days per well	~55 – 70 days	~18 months (cumulative) for the survey and installation activities
Distance from Operational Area to nearest town	The closest Commonwealth section of the trunkline on the State waters boundary is~32 km north-west of Dampier.	~244 km north-northwest of Exmouth, 374 km west-northwest of Dampier.	~214 km north-west of Exmouth.	~ 244 km north-northwest of Exmouth, ~ 374 km west-northwest of Dampier.
Distance from Operational Area to nearest marine park	The trunkline corridor runs through the Montebello Marine Park Multiple Use Zone (Cwth), close to the northern boundary Offshore borrow ground located to the north of the Dampier Marine Park Habitat Protection Zone	~83 km north of the Gascoyne Marine Park (Cwlth) ~206 km north-west of Montebello Marine Park (Cwlth) ~208 km north-northwest of Ningaloo Marine Park (Cwlth)	~46 km north of Gascoyne Marine Park Multiple Use Zone	~ 77 km north of the Gascoyne Marine Park (Cwlth) ~ 201 km north-west of Montebello Marine Park (Cwlth) ~ 180 km north-northwest of Ningaloo Marine Park (Cwlth)
Operational Area and Exclusion Zones	Temporary 500 m exclusion zones will apply around applicable seabed intervention and the Trunkline installation vessels. The Operational Areas are: • Trunkline Project Area: The proposed trunkline from around KP 32 (Commonwealth – State Boundary) to KP 435 and 1.5 km either side of the proposed trunkline centreline. • Offshore Borrow Ground Project Area: Offshore Borrow Ground located in Commonwealth waters.	A petroleum safety zone of 500 m will be in place around the MODU and installation vessel for the duration of activities. The Operational Areas are: • DP MODU/drillship – 500 m radius from each well centre • Moored MODU – 4,000 m radius from each well centre. • Installation vessel – 1,500 m radius around subsea locations	Three nautical mile radius safe navigation area around the seismic vessel, streamers and tail buoys during seismic operations Marine users are requested to avoid this area during the survey to ensure the safety of the seismic vessel and third-party vessels Refer to Table 3 of the attached Seismic EP Consultation Information Sheet for detailed survey location points	 infrastructure. 2,000 m around future location of FPU. Temporary 500 m exclusion zone around vessels to manage
Vessels:	Seabed intervention: Trailing suction hopper dredge Offshore construction vessel Rock Installation Vessel Survey vessels Support vessels Fuel bunkering vessels	Installation vessels for installing the subsea infrastructure Light well intervention vessel as an option for well intervention, subsea hardware installation or contingent activities Support vessels including installation vessel(s),	 A purpose-built seismic vessel One support vessel A potential chase vessel, and An additional spotter vessel (May to June) 	Light construction vessels Heavy construction vessels Heavy lift vessels Derrick lay vessel Reel-lay vessels Survey vessels Support vessels

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Trunkline installation: Pipelay Vessel multi-joint operation Shallow Water Lay Barge Anchor handling vessel/tug Pipe supply vessels Offshore construction vessel Survey vessels	anchor handling vessel(s) and general supply/support vessels	
 Fuel bunkering vessels 		

Feedback:

If you have any issues or concerns with these activities, or any other issues relevant to this location, please respond to Woodside at:

Feedback@woodside.com.au or 1800 442 977.

Your feedback and our response will be included in our Environment Plan which will be submitted to the National Offshore Petroleum Safety and Environmental Management Authority (NOPSEMA) for acceptance in accordance with the *Offshore Petroleum and Greenhouse Gas Storage (Environment) Regulations 2009* (Cth).

Please let us know if your feedback for any of the activities proposed under an Environment Plan is sensitive and we will make this known to NOPSEMA upon submission of the Environment Plan to ensure this information remains confidential to NOPSEMA.

Please provide your views by 5 March 2023.

Regards,

APPENDIX A

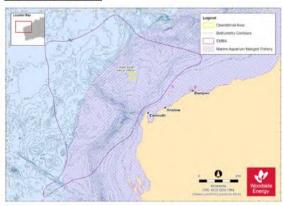
FEEDBACK	SITI EP	D&C EP	Seismic EP	Subsea EP

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Subsea Infrastructure Installation EP (Subsea EP)

Marine Aquarium Managed Fishery

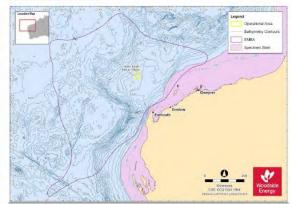


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Mackerel Managed Fishery (Area 2 and 3)

Legand
Le

Specimen Shell Managed Fishery



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Onslow Prawn Managed Fishery



Western Australian Sea Cucumber Managed Fishery



Nickol Bay Prawn Managed Fishery



Gascoyne Demersal Scalefish Fishery



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Pilbara Trawl Fishery



Pilbara Trap Fishery





1.145 Email sent to Karratha Recreational Marine Users (9 Licence Holders) (3 February 2023) Dear Stakeholder

Woodside has submitted Environment Plans (EPs) to undertake the following activities in Commonwealth waters for the Scarborough development:

- seabed intervention and trunkline installation activities for the section of the Trunkline in Commonwealth waters under the Scarborough Seabed Intervention and Trunkline Installation EP (SITI EP);
- seabed site surveys and installation of subsea production infrastructure under the Subsea Infrastructure Installation EP (**Subsea EP**).

Updated consultation Information Sheets are attached, which provide additional background on the proposed activities, including summaries of potential key impacts and risks, and associated management measures. These are also available on our <u>website</u>.

As we are inviting consultation with you on each of the EPs above, for ease of reference, we have attached the information in this one email. In an effort to simplify feedback, we have also included a feedback template (Appendix A) which you may wish to use to provide your feedback specific to the proposed EPs.

Woodside has previously submitted Revision 1 of the **SITI EP** to NOPSEMA which has been available on the NOPSEMA website since January 2022 (https://info.nopsema.gov.au/environment_plans/575/show_public). Woodside is preparing to submit a further revision of the SITI EP to NOPSEMA with recent changes. We confirm the activities, location and duration described in this revision remains the same, with no material changes. The Subsea EP has not yet been submitted to NOPSEMA.

The SITI EP and Subsea EP fall under the primary environmental approval of the <u>Scarborough Offshore Project Proposal</u> (OPP). The OPP includes a detailed description of activities, an assessment of the potential impacts

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and risks and includes management measures to demonstrate that the potential impacts and risks will be of an acceptable level. It was accepted by NOPSEMA in March 2020 after an extensive public consultation process.

More information on the Scarborough Project can be found here.

If you have feedback specific to each of the proposed activities described under the relevant EPs, please respond to Woodside at Feedback@woodside.com.au or 1800 442 977 by **5 March 2023**.

Activity:

	SITI EP	Subsea EP	
Summary:	Seabed intervention and trunkline installation activities in Commonwealth waters associated with the installation of a carbon steel pipeline (Trunkline) that runs approximately 430 km from the from the proposed offshore Scarborough Floating Production Unit (FPU) to the existing onshore Pluto LNG facility. This EP covers activities for the approximately 400 km section of the Trunkline in Commonwealth waters. A separate EP covers activities in State waters.	Seabed site surveys and installation of subsea production infrastructure. Activities include visual pre- and post-installation surveys, and installation of flowlines, umbilicals and risers and ancillary infrastructure, required for the flow and control of hydrocarbons and produced water to the Scarborough Floating Production Unit (FPU). Mooring legs and suction piles will also be installed and a gravimentry survey is also planned.	
Location:	Activities run from the Scarborough FPU in WA-61-L in Commonwealth waters, about 374 km west-northwest of Dampier, to the State waters boundary at the northern extent of the Dampier Archipelago.	Activities are located in permit Areas WA-61-L and WA-62-L, around 374 km west-northwest of Dampier, Western Australia.	
Approx. Water Depth (m):	~ 32 m – 1400 m	~ 900 m – 1000 m	
Earliest commencement date:	Seabed intervention activities: Mid 2023 pending approvals, vessel availability and weather constraints.	Activities planned to commence in H2 2023 (and estimated to be completed in 18 months with activities occurring in multiple campaigns).	
	Trunkline installation activities: Q4 2023 pending successful completion approvals, vessel availability and weather constraints.		
Estimated duration:	~24 months across multiple campaigns	~18 months (cumulative) for the survey and installation activities	
Distance from Operational Area to nearest town	The closest Commonwealth section of the trunkline on the State waters boundary is~32 km north-west of Dampier.	~ 244 km north-northwest of Exmouth, ~ 374 km west-northwest of Dampier.	
Distance from Operational Area to nearest marine park	The trunkline corridor runs through the Montebello Marine Park – Multiple Use Zone (Cwth), close to the northern boundary Offshore borrow ground located to the north of the Dampier Marine Park Habitat Protection Zone	Ningaloo Marine Park (Cwlth)	
Operational Area and Exclusion Zones	Temporary 500 m exclusion zones will apply around applicable seabed intervention and the Trunkline installation vessels. The Operational Areas are: Trunkline Project Area: The proposed trunkline from around KP 32 (Commonwealth – State Boundary) to KP 435 and 1.5 km either side of the proposed trunkline centreline. Offshore Borrow Ground Project Area: Offshore Borrow Ground located in Commonwealth waters.	The Operational Area for activities includes a radius of:	

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		 An interactive map showing the location of the proposed activities will be available on the Woodside website and will be updated throughout the proposed activities
Vessels:	Seabed intervention: Trailing suction hopper dredge Offshore construction vessel Rock Installation Vessel Survey vessels Support vessels Fuel bunkering vessels Pipelay Vessel multi-joint operation Shallow Water Lay Barge Anchor handling vessel/tug Pipe supply vessels Offshore construction vessel Survey vessels Survey vessels Fuel bunkering vessels	 Light construction vessels Heavy construction vessels Heavy lift vessels Derrick lay vessel Reel-lay vessels Survey vessels Support vessels

Feedback:

If you have any issues or concerns with these activities, or any other issues relevant to this location, please respond to Woodside at:

Feedback@woodside.com.au or 1800 442 977.

Your feedback and our response will be included in our Environment Plan which will be submitted to the National Offshore Petroleum Safety and Environmental Management Authority (NOPSEMA) for acceptance in accordance with the *Offshore Petroleum and Greenhouse Gas Storage (Environment) Regulations 2009* (Cth).

Please let us know if your feedback for any of the activities proposed under an Environment Plan is sensitive and we will make this known to NOPSEMA upon submission of the Environment Plan to ensure this information remains confidential to NOPSEMA.

Please provide your views by 5 March 2023.

Regards,

APPENDIX A

FEEDBACK	SITI EP	Subsea EP

1.146 Email sent to Exmouth Recreational Marine Users (50 Licence Holders) (3 February 2023)

Dear Stakeholder

Woodside has submitted Environment Plans (EPs) to undertake the following activities in Commonwealth waters for the Scarborough development:

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any process (electronic or otherwise) without the	e specific written consent of Woodside. All	rights are reserved.
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- seabed intervention and trunkline installation activities for the section of the Trunkline in Commonwealth
 waters under the Scarborough Seabed Intervention and Trunkline Installation EP (SITI EP);
- drilling and subsea tree installation activities for eight planned development wells and the potential for a
 further two additional contingency wells under the WA-61-L Scarborough Drilling and Completions EP
 (D&C EP);
- 4D baseline marine seismic survey (MSS) activities over the Scarborough and Jupiter field under the Scarborough 4D Baseline Marine Seismic Survey EP (Seismic EP); and
- seabed site surveys and installation of subsea production infrastructure under the Subsea Infrastructure Installation EP (Subsea EP).

Updated consultation Information Sheets are attached, which provide additional background on the proposed activities, including summaries of potential key impacts and risks, and associated management measures. These are also available on our website.

As we are inviting consultation with you on each of the EPs above, for ease of reference, we have attached the information in this one email. In an effort to simplify feedback, we have also included a feedback template (Appendix A) which you may wish to use to provide your feedback specific to the proposed EPs.

Woodside has previously submitted Revision 1 of the **SITI EP** to NOPSEMA which has been available on the NOPSEMA website since January 2022 (https://info.nopsema.gov.au/environment_plans/575/show_public). Revision 0 of the **D&C EP** has been available on the NOPSEMA website since November 2021 (https://info.nopsema.gov.au/environment_plans/565/show_public). Revision 0 of the **Seismic EP** has been available on the NOPSEMA website since 18 October 2021 (https://info.nopsema.gov.au/environment_plans/559/show_public).

Woodside is preparing to submit a further revision of the SITI EP, D&C EP and Seismic EP to NOPSEMA with recent changes. We confirm the activities, location and duration described in these revisions remain the same, with no material changes. The Subsea EP has not yet been submitted to NOPSEMA.

The SITI EP, D&C EP and Subsea EP fall under the primary environmental approval of the <u>Scarborough Offshore Project Proposal</u> (OPP). The OPP includes a detailed description of activities, an assessment of the potential impacts and risks and includes management measures to demonstrate that the potential impacts and risks will be of an acceptable level. It was accepted by NOPSEMA in March 2020 after an extensive public consultation process.

More information on the Scarborough Project can be found here.

If you have feedback specific to each of the proposed activities described under the relevant EPs, please respond to Woodside at Feedback@woodside.com.au or 1800 442 977 by **5 March 2023**.

Activity:

	SITI EP	D&C EP	Seismic EP	Subsea EP
Summary:	Seabed intervention and trunkline installation activities in Commonwealth waters associated with the installation of a carbon steel pipeline (Trunkline) that runs approximately 430 km from the from the proposed offshore Scarborough Floating Production Unit (FPU) to the existing onshore Pluto LNG facility. This EP covers activities for the approximately 400 km section of the Trunkline in Commonwealth waters. A	Drilling and Completions activities in Commonwealth waters, including drilling and subsea tree installation activities for eight planned development wells and the potential for a further two contingency wells. Woodside may need to intervene, workover or re-drill the wells. Subsea inspection, monitoring, maintenance and subsea infrastructure repair activities may also be undertaken.	proposed activity is to acquire a new 3D seismic survey data that will provide the baseline for future 'time lapse' reservoir	installation of subsea production infrastructure. Activities include visual pre- and post-installation surveys, and installation of flowlines, umbilicals and risers and ancillary infrastructure, required for the flow and control of hydrocarbons and produced water to the

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	separate EP covers activities in State waters.			and a gravimentry survey is also planned.
Location:	Activities run from the Scarborough FPU in WA-61- L in Commonwealth waters, about 374 km west- northwest of Dampier, to the State waters boundary at the northern extent of the Dampier Archipelago.	Activities are located in Permit Area WA-61-L in Commonwealth waters, about 374 km west- northwest of Dampier, Western Australia. Approximate development well locations for the eight planned wells are provided in Table 2 of the attached D&C EP Consultation Information Sheet.	The seismic survey will cover the Scarborough and Jupiter fields within Commonwealth waters, located in the Exmouth Plateau, approximately 214 km north west of Exmouth, Western Australia.	Activities are located in permit Areas WA-61-L and WA-62-L, around 374 km west-northwest of Dampier, Western
Approx. Water Depth (m):	~ 32 m – 1400 m	~ 900 m – 955 m	~ 800 m – 1,150 m	~ 900 m – 1000 m
Earliest commencement date:	Seabed intervention activities: Mid 2023 pending approvals, vessel availability and weather constraints. Trunkline installation activities: Q4 2023 pending successful completion approvals, vessel availability and weather constraints.	Activities planned to commence in H2 2023 pending approvals, vessel availability and weather constraints.	Activities planned to commence in H1 2023 pending approvals, vessel availability and weather constraints.	Activities planned to commence in H2 2023 (and estimated to be completed in 18 months with activities occurring in multiple campaigns).
Estimated duration:	~24 months across multiple campaigns	~50 – 60 days per well	~55 – 70 days	~18 months (cumulative) for the survey and installation activities
Distance from Operational Area to nearest town	The closest Commonwealth section of the trunkline on the State waters boundary is~32 km north-west of Dampier.	~244 km north-northwest of Exmouth, 374 km west-northwest of Dampier.	~214 km north-west of Exmouth.	~ 244 km north-northwest of Exmouth, ~ 374 km west-northwest of Dampier.
Distance from Operational Area to nearest marine park	The trunkline corridor runs through the Montebello Marine Park Multiple Use Zone (Cwth), close to the northern boundary Offshore borrow ground located to the north of the Dampier Marine Park Habitat Protection Zone	~83 km north of the Gascoyne Marine Park (Cwlth) ~206 km north-west of Montebello Marine Park (Cwlth) ~208 km north-northwest of Ningaloo Marine Park (Cwlth)	• ~46 km north of Gascoyne Marine Park Multiple Use Zone	~ 77 km north of the Gascoyne Marine Park (Cwlth) ~ 201 km north-west of Montebello Marine Park (Cwlth) ~ 180 km north-northwest of Ningaloo Marine Park (Cwlth)
Operational Area and Exclusion Zones	Temporary 500 m exclusion zones will apply around applicable seabed intervention and the Trunkline installation vessels. The Operational Areas are: • Trunkline Project Area: The proposed trunkline from around KP 32 (Commonwealth – State Boundary) to KP 435 and	A petroleum safety zone of 500 m will be in place around the MODU and installation vessel for the duration of activities. The Operational Areas are: • DP MODU/drillship – 500 m radius from each well centre • Moored MODU – 4,000 m radius from each well centre.	 Three nautical mile radius safe navigation area around the seismic vessel, streamers and tail buoys during seismic operations Marine users are requested to avoid this area during the survey to ensure the safety of the 	The Operational Area for activities includes a radius of: • 1,000 m around location of the outermost concrete pads. • 1,500 m around location of subsea infrastructure.

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	1.5 km either side of the proposed trunkline centreline. Offshore Borrow Ground Project Area: Offshore Borrow Ground located in Commonwealth waters.	Installation vessel – 1,500 m radius around subsea locations	seismic vessel and third- party vessels • Refer to Table 3 of the attached Seismic EP Consultation Information Sheet for detailed survey location points	 2,000 m around future location of FPU. Temporary 500 m exclusion zone around vessels to manage vessel movements An interactive map showing the location of the proposed activities will be available on the Woodside website and will be updated throughout the proposed activities
Vessels:	Seabed intervention: Trailing suction hopper dredge Offshore construction vessel Rock Installation Vessel Survey vessels Support vessels Fuel bunkering vessels Trunkline installation: Pipelay Vessel multi-joint operation Shallow Water Lay Barge Anchor handling vessel/tug Pipe supply vessels Offshore construction vessel Survey vessels Fuel bunkering vessels	Installation vessels for installing the subsea infrastructure Light well intervention vessel as an option for well intervention, subsea hardware installation or contingent activities Support vessels including installation vessel(s), anchor handling vessel(s) and general supply/support vessels	A purpose-built seismic vessel One support vessel A potential chase vessel, and An additional spotter vessel (May to June)	 Light construction vessels Heavy construction vessels Heavy lift vessels Derrick lay vessel Reel-lay vessels Survey vessels Support vessels

If you have any issues or concerns with these activities, or any other issues relevant to this location, please respond to Woodside at:

Feedback@woodside.com.au or 1800 442 977.

Your feedback and our response will be included in our Environment Plan which will be submitted to submitted to the National Offshore Petroleum Safety and Environmental Management Authority (NOPSEMA) for acceptance in accordance with the Offshore Petroleum and Greenhouse Gas Storage (Environment) Regulations 2009 (Cth).

Please let us know if your feedback for any of the activities proposed under an Environment Plan is sensitive and we will make this known to NOPSEMA upon submission of the Environment Plan to ensure this information remains confidential to NOPSEMA.

Please provide your views by 5 March 2023.

Controlled Ref No: SA0006AH0000008

Regards,

APPENDIX A

FEEDBACK	SITI EP	D&C EP	Seismic EP	Subsea EP

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WA-01-L and WA-02-L	WA-01-L and WA-02-L Subsea infrastructure installation Environment Plan						

1.147 Email sent to Western Australian Marine Science Institution (WAMSI) (3 February 2023)

MACAL and MACAL College Infrastructure Installation Fraction and Plan

Dear

Woodside has submitted Environment Plans (EPs) to undertake the following activities in Commonwealth waters for the Scarborough development:

- seabed intervention and trunkline installation activities for the section of the Trunkline in Commonwealth waters under the Scarborough Seabed Intervention and Trunkline Installation EP (SITI EP);
- drilling and subsea tree installation activities for eight planned development wells and the potential for a
 further two additional contingency wells under the WA-61-L Scarborough Drilling and Completions EP
 (D&C EP);
- 4D baseline marine seismic survey (MSS) activities over the Scarborough and Jupiter field under the Scarborough 4D Baseline Marine Seismic Survey EP (Seismic EP); and
- seabed site surveys and installation of subsea production infrastructure under the Subsea Infrastructure Installation EP (Subsea EP).

Updated consultation Information Sheets are attached, which provide additional background on the proposed activities, including summaries of potential key impacts and risks, and associated management measures. These are also available on our website.

As we are inviting consultation with you on each of the EPs above, for ease of reference, we have attached the information in this one email. In an effort to simplify feedback, we have also included a feedback template (Appendix A) which you may wish to use to provide your feedback specific to the proposed EPs.

Woodside has previously submitted Revision 1 of the **SITI EP** to NOPSEMA which has been available on the NOPSEMA website since January 2022 (https://info.nopsema.gov.au/environment_plans/575/show_public). Revision 0 of the **D&C EP** has been available on the NOPSEMA website since November 2021 (https://info.nopsema.gov.au/environment_plans/565/show_public). Revision 0 of the **Seismic EP** has been available on the NOPSEMA website since 18 October 2021 (https://info.nopsema.gov.au/environment_plans/559/show_public).

Woodside is preparing to submit a further revision of the SITI EP, D&C EP and Seismic EP to NOPSEMA with recent changes. We confirm the activities, location and duration described in these revisions remain the same, with no material changes. The Subsea EP has not yet been submitted to NOPSEMA.

The SITI EP, D&C EP and Subsea EP fall under the primary environmental approval of the <u>Scarborough Offshore Project Proposal</u> (OPP). The OPP includes a detailed description of activities, an assessment of the potential impacts and risks and includes management measures to demonstrate that the potential impacts and risks will be of an acceptable level. It was accepted by NOPSEMA in March 2020 after an extensive public consultation process.

More information on the Scarborough Project can be found here.

Woodside is seeking your advice regarding any research activities that WAMSI may be undertaking that may overlap with our proposed activities.

If you have feedback specific to each of the proposed activities described under the relevant EPs, please respond to Woodside at Feedback@woodside.com.au or 1800 442 977 by **5 March 2023**.

Activity:

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	SITI EP	D&C EP	Seismic EP	Subsea EP
Summary:	Seabed intervention and trunkline installation activities in Commonwealth waters associated with the installation of a carbon steel pipeline (Trunkline) that runs approximately 430 km from the from the proposed offshore Scarborough Floating Production Unit (FPU) to the existing onshore Pluto LNG facility. This EP covers activities for the approximately 400 km section of the Trunkline in Commonwealth waters. A separate EP covers activities in State waters.	Drilling and Completions activities in Commonwealth waters, including drilling and subsea tree installation activities for eight planned development wells and the potential for a further two contingency wells. Woodside may need to intervene, workover or re-drill the wells. Subsea inspection, monitoring, maintenance and subsea infrastructure repair activities may also be undertaken.	4D baseline seismic survey over the Scarborough and Jupiter fields. The proposed survey will be conducted over areas where seismic data has previously been acquired. The objective for the proposed activity is to acquire a new 3D seismic survey data that will provide the baseline for future 'time lapse' reservoir surveillance (or technically termed 4D baseline survey).	Seabed site surveys and installation of subsea production infrastructure. Activities include visual pre- and post-installation surveys, and installation of flowlines, umbilicals and risers and ancillary infrastructure, required for the flow and control of hydrocarbons and produced water to the Scarborough Floating Production Unit (FPU). Mooring legs and suction piles will also be installed and a gravimentry survey is also planned.
Location:	Activities run from the Scarborough FPU in WA-61-L in Commonwealth waters, about 374 km west-northwest of Dampier, to the State waters boundary at the northern extent of the Dampier Archipelago.	Activities are located in Permit Area WA-61-L in Commonwealth waters, about 374 km west-northwest of Dampier, Western Australia. Approximate development well locations for the eight planned wells are provided in Table 2 of the attached D&C EP Consultation Information Sheet.	The seismic survey will cover the Scarborough and Jupiter fields within Commonwealth waters, located in the Exmouth Plateau, approximately 214 km north west of Exmouth, Western Australia.	Activities are located in permit Areas WA-61-L and WA-62-L, around 374 km west-northwest of Dampier, Western Australia.
Approx. Water Depth (m):	~ 32 m – 1400 m	~ 900 m – 955 m	~ 800 m – 1,150 m	~ 900 m – 1000 m
Earliest commencement date:	Seabed intervention activities: Mid 2023 pending approvals, vessel availability and weather constraints. Trunkline installation activities: Q4 2023 pending successful completion approvals, vessel availability and weather constraints.	Activities planned to commence in H2 2023 pending approvals, vessel availability and weather constraints.	Activities planned to commence in H1 2023 pending approvals, vessel availability and weather constraints.	Activities planned to commence in H2 2023 (and estimated to be completed in 18 months with activities occurring in multiple campaigns).
Estimated duration:	~24 months across multiple campaigns	~50 – 60 days per well	~55 – 70 days	~18 months (cumulative) for the survey and installation activities
Distance from Operational Area to nearest town	The closest Commonwealth section of the trunkline on the State waters boundary is~32 km north-west of Dampier.	~244 km north-northwest of Exmouth, 374 km west-northwest of Dampier.	~214 km north-west of Exmouth.	~ 244 km north-northwes of Exmouth, ~ 374 km west-northwest of Dampier.
Distance from Operational Area	The trunkline corridor runs through the Montebello Marine Park – Multiple Use Zone	~83 km north of the Gascoyne Marine Park (Cwlth)	~46 km north of Gascoyne Marine Park Multiple Use Zone	• ~ 77 km north of the Gascoyne Marine Park (Cwlth)

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to nearest marine	(Cwth) close to the	206 km north woot of		201 km north woot of
to nearest marine park	 (Cwth), close to the northern boundary Offshore borrow ground located to the north of the Dampier Marine Park Habitat Protection Zone 	~206 km north-west of Montebello Marine Park (Cwlth) ~208 km north-northwest of Ningaloo Marine Park (Cwlth)		~ 201 km north-west of Montebello Marine Park (Cwlth) ~ 180 km north- northwest of Ningaloo Marine Park (Cwlth)
Operational Area and Exclusion Zones	Temporary 500 m exclusion zones will apply around applicable seabed intervention and the Trunkline installation vessels. The Operational Areas are: • Trunkline Project Area: The proposed trunkline from around KP 32 (Commonwealth – State Boundary) to KP 435 and 1.5 km either side of the proposed trunkline centreline. • Offshore Borrow Ground Project Area: Offshore Borrow Ground located in Commonwealth waters.	A petroleum safety zone of 500 m will be in place around the MODU and installation vessel for the duration of activities. The Operational Areas are: • DP MODU/drillship – 500 m radius from each well centre • Moored MODU – 4,000 m radius from each well centre. • Installation vessel – 1,500 m radius around subsea locations	 Three nautical mile radius safe navigation area around the seismic vessel, streamers and tail buoys during seismic operations Marine users are requested to avoid this area during the survey to ensure the safety of the seismic vessel and third-party vessels Refer to Table 3 of the attached Seismic EP Consultation Information Sheet for detailed survey location points 	infrastructure. • 2,000 m around future location of FPU. • Temporary 500 m exclusion zone around vessels to manage
Vessels:	Seabed intervention: Trailing suction hopper dredge Offshore construction vessel Rock Installation Vessel Survey vessels Support vessels Fuel bunkering vessels Trunkline installation: Pipelay Vessel multi-joint operation Shallow Water Lay Barge Anchor handling vessel/tug Pipe supply vessels Offshore construction vessel Survey vessels Fuel bunkering vessels	Installation vessels for installing the subsea infrastructure Light well intervention vessel as an option for well intervention, subsea hardware installation or contingent activities Support vessels including installation vessel(s), anchor handling vessel(s) and general supply/support vessels	A purpose-built seismic vessel One support vessel A potential chase vessel, and An additional spotter vessel (May to June)	Light construction vessels Heavy construction vessels Heavy lift vessels Derrick lay vessel Reel-lay vessels Survey vessels Support vessels

If you have any issues or concerns with these activities, or any other issues relevant to this location, please respond to Woodside at:

Feedback@woodside.com.au or 1800 442 977.

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Your feedback and our response will be included in our Environment Plan which will be submitted to the National Offshore Petroleum Safety and Environmental Management Authority (NOPSEMA) for acceptance in accordance with the Offshore Petroleum and Greenhouse Gas Storage (Environment) Regulations 2009 (Cth).

Please let us know if your feedback for any of the activities proposed under an Environment Plan is sensitive and we will make this known to NOPSEMA upon submission of the Environment Plan to ensure this information remains confidential to NOPSEMA.

Please provide your views by 5 March 2023.

Regards, Woodside Feedback

APPENDIX A

FEEDBACK	SITI EP	D&C EP	Seismic EP	Subsea EP

1.148 Email sent to Australian Fisheries Management Authority (AFMA) - 3 February 2023

Dear AFMA

Woodside previously consulted you on its submitted Environment Plans (EPs) to undertake the following activities in Commonwealth waters for the Scarborough development:

- seabed intervention and trunkline installation activities for the section of the Trunkline in Commonwealth waters under the Scarborough Seabed Intervention and Trunkline Installation EP (SITI EP);
- drilling and subsea tree installation activities for eight planned development wells and the potential for a
 further two additional contingency wells under the WA-61-L Scarborough Drilling and Completions EP
 (D&C EP);
- 4D baseline marine seismic survey (MSS) activities over the Scarborough and Jupiter field under the Scarborough 4D Baseline Marine Seismic Survey EP (Seismic EP); and
- seabed site surveys and installation of subsea production infrastructure under the Subsea Infrastructure Installation EP (**Subsea EP**).

Updated consultation Information Sheets are attached, which provide additional background on the proposed activities, including summaries of potential key impacts and risks, and associated management measures. These are also available on our website. Also attached are Commonwealth fishery figures.

As we are inviting consultation with you on each of the EPs above, for ease of reference, we have attached the information in this one email. In an effort to simplify feedback, we have also included a feedback template (Appendix A) which you may wish to use to provide your feedback specific to the proposed EPs.

Woodside has previously submitted Revision 1 of the **SITI EP** to NOPSEMA which has been available on the NOPSEMA website since January 2022 (https://info.nopsema.gov.au/environment_plans/575/show_public). Revision 0 of the **D&C EP** has been available on the NOPSEMA website since November 2021 (https://info.nopsema.gov.au/environment_plans/565/show_public). Revision 0 of the **Seismic EP** has been available on the NOPSEMA website since 18 October 2021 (https://info.nopsema.gov.au/environment_plans/559/show_public).

Woodside is preparing to submit a further revision of the SITI EP, D&C EP and Seismic EP to NOPSEMA with recent changes. We confirm the activities, location and duration described in these revisions remain the same, with no material changes. The Subsea EP has not yet been submitted to NOPSEMA.

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The SITI EP, D&C EP and Subsea EP fall under the primary environmental approval of the <u>Scarborough Offshore Project Proposal</u> (OPP). The OPP includes a detailed description of activities, an assessment of the potential impacts and risks and includes management measures to demonstrate that the potential impacts and risks will be of an acceptable level. It was accepted by NOPSEMA in March 2020 after an extensive public consultation process.

More information on the Scarborough Project can be found here.

If you have additional feedback specific to each of the proposed activities described under the relevant EPs, please respond to Woodside at <u>Feedback@woodside.com.au</u> or 1800 442 977 by **5 March 2023**.

Activity:

	SITI EP	D&C EP	Seismic EP	Subsea EP
Summary:	Seabed intervention and trunkline installation activities in Commonwealth waters associated with the installation of a carbon steel pipeline (Trunkline) that runs approximately 430 km from the from the proposed offshore Scarborough Floating Production Unit (FPU) to the existing onshore Pluto LNG facility. This EP covers activities for the approximately 400 km section of the Trunkline in Commonwealth waters. A separate EP covers activities in State waters.	Drilling and Completions activities in Commonwealth waters, including drilling and subsea tree installation activities for eight planned development wells and the potential for a further two contingency wells. Woodside may need to intervene, workover or re-drill the wells. Subsea inspection, monitoring, maintenance and subsea infrastructure repair activities may also be undertaken.	4D baseline seismic survey over the Scarborough and Jupiter fields. The proposed survey will be conducted over areas where seismic data has previously been acquired. The objective for the proposed activity is to acquire a new 3D seismic survey data that will provide the baseline for future 'time lapse' reservoir surveillance (or technically termed 4D baseline survey).	Seabed site surveys and installation of subsea production infrastructure. Activities include visual pre- and post-installation of flowlines, umbilicals and risers and ancillary infrastructure, required for the flow and control of hydrocarbons and produced water to the Scarborough Floating Production Unit (FPU). Mooring legs and suction piles will also be installed and a gravimentry survey is also planned.
Location:	Activities run from the Scarborough FPU in WA-61-L in Commonwealth waters, about 374 km west-northwest of Dampier, to the State waters boundary at the northern extent of the Dampier Archipelago.	Activities are located in Permit Area WA-61-L in Commonwealth waters, about 374 km west-northwest of Dampier, Western Australia. Approximate development well locations for the eight planned wells are provided in Table 2 of the attached D&C EP Consultation Information Sheet.	The seismic survey will cover the Scarborough and Jupiter fields within Commonwealth waters, located in the Exmouth Plateau, approximately 214 km north west of Exmouth, Western Australia.	Activities are located in permit Areas WA-61-L and WA-62-L, around 374 km west-northwest of Dampier, Western Australia.
Approx. Water Depth (m):	~ 32 m – 1400 m	~ 900 m – 955 m	~ 800 m – 1,150 m	~ 900 m – 1000 m
Earliest commencement date:	Seabed intervention activities: Mid 2023 pending approvals, vessel availability and weather constraints. Trunkline installation activities: Q4 2023 pending successful completion approvals, vessel availability and weather constraints.	Activities planned to commence in H2 2023 pending approvals, vessel availability and weather constraints.	Activities planned to commence in H1 2023 pending approvals, vessel availability and weather constraints.	Activities planned to commence in H2 2023 (and estimated to be completed in 18 months with activities occurring in multiple campaigns).

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Estimated duration:	~24 months across multiple campaigns	~50 – 60 days per well	~55 – 70 days	~18 months (cumulative) for the survey and installation activities
Distance from Operational Area to nearest town	The closest Commonwealth section of the trunkline on the State waters boundary is~32 km north-west of Dampier.	~244 km north-northwest of Exmouth, 374 km west-northwest of Dampier.	~214 km north-west of Exmouth.	~ 244 km north-northwest of Exmouth, ~ 374 km west-northwest of Dampier.
Distance from Operational Area to nearest marine park	The trunkline corridor runs through the Montebello Marine Park Multiple Use Zone (Cwth), close to the northern boundary Offshore borrow ground located to the north of the Dampier Marine Park Habitat Protection Zone	~83 km north of the Gascoyne Marine Park (Cwlth) ~206 km north-west of Montebello Marine Park (Cwlth) ~208 km north-northwest of Ningaloo Marine Park (Cwlth)	~46 km north of Gascoyne Marine Park Multiple Use Zone	~ 77 km north of the Gascoyne Marine Park (Cwlth) ~ 201 km north-west of Montebello Marine Park (Cwlth) ~ 180 km north-northwest of Ningaloo Marine Park (Cwlth)
Operational Area and Exclusion Zones	Temporary 500 m exclusion zones will apply around applicable seabed intervention and the Trunkline installation vessels. The Operational Areas are: • Trunkline Project Area: The proposed trunkline from around KP 32 (Commonwealth – State Boundary) to KP 435 and 1.5 km either side of the proposed trunkline centreline. • Offshore Borrow Ground Project Area: Offshore Borrow Ground located in Commonwealth waters.	A petroleum safety zone of 500 m will be in place around the MODU and installation vessel for the duration of activities. The Operational Areas are: • DP MODU/drillship – 500 m radius from each well centre • Moored MODU – 4,000 m radius from each well centre. • Installation vessel – 1,500 m radius around subsea locations	area around the seismic vessel, streamers and tail buoys during seismic operations • Marine users are requested to avoid this area during the survey to ensure the safety of the seismic vessel and third-party vessels • Refer to Table 3 of the attached Seismic EP Consultation Information Sheet for detailed survey location points	 infrastructure. 2,000 m around future location of FPU. Temporary 500 m exclusion zone around vessels to manage
Vessels:	Seabed intervention: Trailing suction hopper dredge Offshore construction vessel Rock Installation Vessel Survey vessels Support vessels Fuel bunkering vessels Trunkline installation: Pipelay Vessel multi-joint operation Shallow Water Lay Barge Anchor handling vessel/tug	Installation vessels for installing the subsea infrastructure Light well intervention vessel as an option for well intervention, subsea hardware installation or contingent activities Support vessels including installation vessel(s), anchor handling vessel(s) and general supply/support vessels	A purpose-built seismic vessel One support vessel A potential chase vessel, and An additional spotter vessel (May to June)	Light construction vessels Heavy construction vessels Heavy lift vessels Derrick lay vessel Reel-lay vessels Survey vessels Support vessels

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Pipe supply ve		
Offshore const	ruction	
vessel		
Survey vessels	3	

If you have any issues or concerns with these activities, or any other issues relevant to this location, please respond to Woodside at:

Feedback@woodside.com.au or 1800 442 977.

• Fuel bunkering vessels

WA-61-L and WA-62-L Subsea Infrastructure Installation Environment Plan

Your feedback and our response will be included in our Environment Plan which will be submitted to the National Offshore Petroleum Safety and Environmental Management Authority (NOPSEMA) for acceptance in accordance with the Offshore Petroleum and Greenhouse Gas Storage (Environment) Regulations 2009 (Cth).

Please let us know if your feedback for any of the activities proposed under an Environment Plan is sensitive and we will make this known to NOPSEMA upon submission of the Environment Plan to ensure this information remains confidential to NOPSEMA.

Please provide your views by 5 March 2023.

Regards,

APPENDIX A

FEEDBACK	SITI EP	D&C EP	Seismic EP	Subsea EP

Woodside Feedback

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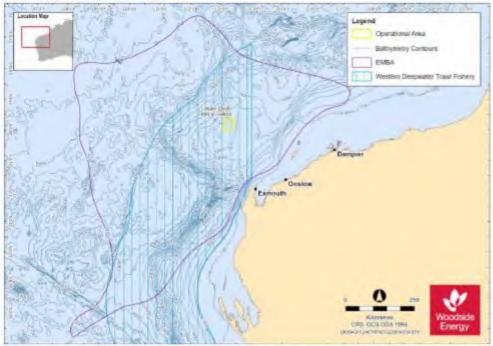
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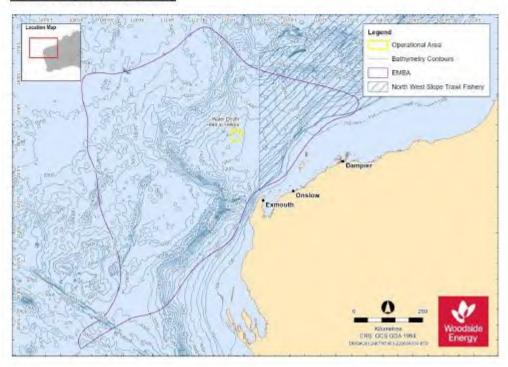
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Subsea Infrastructure Installation EP (Subsea EP)

North West Slope and Trawl Fishery



Western Deepwater Trawl Fishery



1.149 Email sent to Pilbara Line Fishery (8 Licence Holders) (3 February 2023)

Dear Fishery Stakeholder

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Woodside previously consulted you on its submitted Environment Plans (EPs) to undertake the following activities in Commonwealth waters for the Scarborough development:

- seabed intervention and trunkline installation activities for the section of the Trunkline in Commonwealth waters under the Scarborough Seabed Intervention and Trunkline Installation EP (SITI EP);
- drilling and subsea tree installation activities for eight planned development wells and the potential for a
 further two additional contingency wells under the WA-61-L Scarborough Drilling and Completions EP
 (D&C EP);
- 4D baseline marine seismic survey (MSS) activities over the Scarborough and Jupiter field under the Scarborough 4D Baseline Marine Seismic Survey EP (Seismic EP); and
- seabed site surveys and installation of subsea production infrastructure under the Subsea Infrastructure Installation EP (Subsea EP).

Updated consultation Information Sheets are attached, which provide additional background on the proposed activities, including summaries of potential key impacts and risks, and associated management measures. These are also available on our website. **Also attached are State fishery figures.**

As we are inviting consultation with you on each of the EPs above, for ease of reference, we have attached the information in this one email. In an effort to simplify feedback, we have also included a feedback template (Appendix A) which you may wish to use to provide your feedback specific to the proposed EPs.

Woodside has previously submitted Revision 1 of the **SITI EP** to NOPSEMA which has been available on the NOPSEMA website since January 2022 (https://info.nopsema.gov.au/environment_plans/575/show_public). Revision 0 of the **D&C EP** has been available on the NOPSEMA website since November 2021 (https://info.nopsema.gov.au/environment_plans/565/show_public). Revision 0 of the **Seismic EP** has been available on the NOPSEMA website since 18 October 2021 (https://info.nopsema.gov.au/environment_plans/559/show_public).

Woodside is preparing to submit a further revision of the SITI EP, D&C EP and Seismic EP to NOPSEMA with recent changes. We confirm the activities, location and duration described in these revisions remain the same, with no material changes. The Subsea EP has not yet been submitted to NOPSEMA.

The SITI EP, D&C EP and Subsea EP fall under the primary environmental approval of the <u>Scarborough Offshore Project Proposal</u> (OPP). The OPP includes a detailed description of activities, an assessment of the potential impacts and risks and includes management measures to demonstrate that the potential impacts and risks will be of an acceptable level. It was accepted by NOPSEMA in March 2020 after an extensive public consultation process.

More information on the Scarborough Project can be found here.

If you have feedback specific to each of the proposed activities described under the relevant EPs, please respond to Woodside at Feedback@woodside.com.au or 1800 442 977 by **5 March 2023 2023**.

Activity:

	SITI EP	D&C EP	Seismic EP	Subsea EP
Summary:	Seabed intervention and trunkline installation activities in Commonwealth waters associated with the installation of a carbon steel pipeline (Trunkline) that runs approximately 430 km from the from the proposed offshore Scarborough Floating Production Unit (FPU) to the existing onshore Pluto LNG facility. This EP covers activities for	Drilling and Completions activities in Commonwealth waters, including drilling and subsea tree installation activities for eight planned development wells and the potential for a further two contingency wells. Woodside may need to intervene, workover or re-drill the wells. Subsea inspection, monitoring, maintenance and subsea infrastructure repair	over the Scarborough and Jupiter fields. The proposed survey will be conducted over areas where seismic data has previously been acquired. The objective for the proposed activity is to acquire a new 3D seismic survey data that will	installation of subsea production infrastructure. Activities include visual pre- and post-installation surveys, and installation of flowlines, umbilicals and risers and ancillary infrastructure, required for the flow and control of hydrocarbons and produced water to the

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Location:	the approximately 400 km section of the Trunkline in Commonwealth waters. A separate EP covers activities in State waters. Activities run from the Scarborough FPU in WA-61-L in Commonwealth waters, about 374 km west-	activities may also be undertaken. Activities are located in Permit Area WA-61-L in Commonwealth waters, about 374 km west-	surveillance (or technically termed 4D baseline survey). The seismic survey will cover the Scarborough and Jupiter fields within Commonwealth waters,	and WA-62-L, around 374 km west-northwest of
	northwest of Dampier, to the State waters boundary at the northern extent of the Dampier Archipelago.	northwest of Dampier, Western Australia. Approximate development well locations for the eight planned wells are provided in Table 2 of the attached D&C EP Consultation Information Sheet.		
Approx. Water Depth (m):	~ 32 m – 1400 m	~ 900 m – 955 m	~ 800 m – 1,150 m	~ 900 m – 1000 m
Earliest commencement date:	Seabed intervention activities: Mid 2023 pending approvals, vessel availability and weather constraints. Trunkline installation	Activities planned to commence in H2 2023 pending approvals, vessel availability and weather constraints.	Activities planned to commence in H1 2023 pending approvals, vessel availability and weather constraints.	Activities planned to commence in H2 2023 (and estimated to be completed in 18 months with activities occurring in multiple campaigns).
	activities: Q4 2023 pending successful completion approvals, vessel availability and weather constraints.			
Estimated duration:	~24 months across multiple campaigns	~50 – 60 days per well	~55 – 70 days	~18 months (cumulative) for the survey and installation activities
Distance from Operational Area to nearest town	The closest Commonwealth section of the trunkline on the State waters boundary is~32 km north-west of Dampier.	~244 km north-northwest of Exmouth, 374 km west-northwest of Dampier.	~214 km north-west of Exmouth.	~ 244 km north-northwest of Exmouth, ~ 374 km west-northwest of Dampier.
Distance from Operational Area to nearest marine park	The trunkline corridor runs through the Montebello Marine Park Multiple Use Zone (Cwth), close to the northern boundary Offshore borrow ground located to the north of the Dampier Marine Park Habitat Protection Zone	~83 km north of the Gascoyne Marine Park (Cwlth) ~206 km north-west of Montebello Marine Park (Cwlth) ~208 km north-northwest of Ningaloo Marine Park (Cwlth)	~46 km north of Gascoyne Marine Park Multiple Use Zone	~ 77 km north of the Gascoyne Marine Park (Cwlth) ~ 201 km north-west of Montebello Marine Park (Cwlth) ~ 180 km north-northwest of Ningaloo Marine Park (Cwlth)
Operational Area and Exclusion Zones	Temporary 500 m exclusion zones will apply around applicable seabed intervention and the Trunkline installation vessels. The Operational Areas are:	A petroleum safety zone of 500 m will be in place around the MODU and installation vessel for the duration of activities. The Operational Areas are:	Three nautical mile radius safe navigation area around the seismic vessel, streamers and tail buoys during seismic operations	The Operational Area for activities includes a radius of: • 1,000 m around location of the outermost concrete pads.

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	Trunkline Project Area: The proposed trunkline from around KP 32 (Commonwealth – State Boundary) to KP 435 and	DP MODU/drillship – 500 m radius from each well centre Moored MODU – 4,000 m radius from each well	Marine users are requested to avoid this area during the survey to ensure the safety of the seismic vessel and third-	 1,500 m around location of subsea infrastructure. 2,000 m around future location of FPU.
	1.5 km either side of the proposed trunkline centreline. Offshore Borrow Ground Project Area: Offshore Borrow Ground located in Commonwealth waters.	centre. • Installation vessel – 1,500 m radius around subsea locations	party vessels Refer to Table 3 of the attached Seismic EP Consultation Information Sheet for detailed survey location points	 Temporary 500 m exclusion zone around vessels to manage vessel movements An interactive map showing the location of the proposed activities will be available on the Woodside website and will be updated throughout the proposed activities
Vessels:	Seabed intervention: Trailing suction hopper dredge Offshore construction vessel Rock Installation Vessel Survey vessels Support vessels Fuel bunkering vessels Trunkline installation: Pipelay Vessel multi-joint operation Shallow Water Lay Barge Anchor handling vessel/tug Pipe supply vessels Offshore construction vessel Survey vessels Fuel bunkering vessels	 Installation vessels for installing the subsea infrastructure Light well intervention vessel as an option for well intervention, subsea hardware installation or contingent activities Support vessels including installation vessel(s), anchor handling vessel(s) and general supply/support vessels 	A purpose-built seismic vessel One support vessel A potential chase vessel, and An additional spotter vessel (May to June)	Light construction vessels Heavy construction vessels Heavy lift vessels Derrick lay vessel Reel-lay vessels Survey vessels Surport vessels

If you have any issues or concerns with these activities, or any other issues relevant to this location, please respond to Woodside at:

Feedback@woodside.com.au or 1800 442 977.

Your feedback and our response will be included in our Environment Plan which will be submitted to submitted to the National Offshore Petroleum Safety and Environmental Management Authority (NOPSEMA) for acceptance in accordance with the Offshore Petroleum and Greenhouse Gas Storage (Environment) Regulations 2009 (Cth).

Please let us know if your feedback for any of the activities proposed under an Environment Plan is sensitive and we will make this known to NOPSEMA upon submission of the Environment Plan to ensure this information remains confidential to NOPSEMA.

Please provide your views by 5 March 2023.

Regards,

APPENDIX A

FEEDBACK	SITI EP	D&C EP	Seismic EP	Subsea EP

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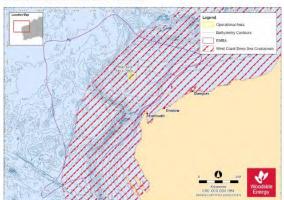
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Subsea Infrastructure Installation EP (Subsea EP)

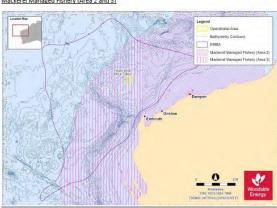
Marine Aquarium Managed Fishery



West Coast Deep Sea Crustacean Managed Fishery



Mackerel Managed Fishery (Area 2 and 3)



Specimen Shell Managed Fishery



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Onslow Prawn Managed Fishery



Western Australian Sea Cucumber Managed Fishery



Nickol Bay Prawn Managed Fishery



Gascoyne Demersal Scalefish Fishery



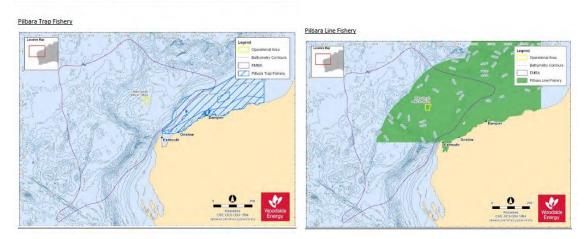
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Pilbara Trawl Fishery | Constant | Constant



1.150 Letter sent to Gascoyne Recreational Marine Users (65 Licence Holders) (6 February 2023)

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Please direct all responses/queries to: Woodside Feedback T: 1800 442 977 E: Feedback@woodside.com.au

6 February 2023



Woodside Energy Group Ltd

ACN 004 898 982

Mia Yellagonga 11 Mount Street Perth WA 6000 Australia

T: +61 8 9348 4000

Dear Stakeholder

Woodside previously consulted you on its submitted Environment Plans (EPs) to undertake the following activities in Commonwealth waters for the Scarborough development:

- seabed intervention and trunkline installation activities for the section of the Trunkline in Commonwealth waters under the Scarborough Seabed Intervention and Trunkline Installation EP (SITI EP);
- drilling and subsea tree installation activities for eight planned development wells and the potential for a further two additional contingency wells under the WA-61-L Scarborough Drilling and Completions EP (D&C EP);
- 4D baseline marine seismic survey (MSS) activities over the Scarborough and Jupiter field under the Scarborough 4D Baseline Marine Seismic Survey EP (Seismic EP); and
- seabed site surveys and installation of subsea production infrastructure under the Subsea Infrastructure Installation EP (Subsea EP).

Updated consultation Information Sheets are attached, which provide additional background on the proposed activities, including summaries of potential key impacts and risks, and associated management measures. These are also available on our <u>website</u>.

As we are inviting consultation with you on each of the EPs above, for ease of reference, we have attached the information in this one email. In an effort to simplify feedback, we have also included a feedback template (Appendix A) which you may wish to use to provide your feedback specific to the proposed EPs.

Woodside has previously submitted Revision 1 of the SITI EP to NOPSEMA which has been available on the NOPSEMA website since January 2022 (https://info.nopsema.gov.au/environment_plans/575/show_public). Revision 0 of the D&C EP has been available on the NOPSEMA website since November 2021 (https://info.nopsema.gov.au/environment_plans/555/show_public). Revision 0 of the Seismic EP has been available on the NOPSEMA website since 18 October 2021 (https://info.nopsema.gov.au/environment_plans/559/show_public).

Woodside is preparing to submit a further revision of the SITI EP, D&C EP and Seismic EP to NOPSEMA with recent changes. We confirm the activities, location and duration described in these revisions remain the same, with no material changes. The Subsea EP has not yet been submitted to NOPSEMA.

The SITI EP, D&C EP and Subsea EP fall under the primary environmental approval of the Scarborough
Offshore Project Proposal (OPP). The OPP includes a detailed description of activities, an assessment of the potential impacts and risks and includes management measures to demonstrate that the potential impacts and risks will be of an acceptable level. It was accepted by NOPSEMA in March 2020 after an extensive public consultation process.

More information on the Scarborough Project can be found here.

If you have feedback specific to each of the proposed activities described under the relevant EPs, please respond to Woodside at Feedback@woodside.com.au or 1800 442 977 by 8 March 2023 2023.

Activity:

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	SITI EP	D&C EP	Seismic EP	Subsea EP
Summary:	Seabed intervention and trunkline installation activities in Commonwealth waters associated with the installation of a carbon steel pipeline (Trunkline) that runs approximately 430 km from the from the proposed offshore Scarborough Floating Production Unit (FPU) to the existing onshore Pluto LNG facility. This EP covers activities for the approximately 400 km section of the Trunkline in Commonwealth waters. A separate EP covers activities in State waters.	drill the wells. Subsea inspection, monitoring, maintenance and subsea infrastructure repair activities may also be undertaken.	seismic data has previously been acquired. The objective for the proposed activity is to acquire a new 3D seismic survey data that will provide the baseline for future 'time lapse' reservoir surveillance (or technically termed 4D baseline survey).	infrastructure. Activities include visual pre- and post- installation surveys, and installation of flowlines, umbilicals and risers and ancillary infrastructure, required for the flow and control of hydrocarbons and produced water to the Scarborough Floating Production Unit (FPU). Mooring legs and suction piles will also be installed and a gravimentry survey is also planned.
Location:	Activities run from the Scarborough FPU in WA- 61-L in Commonwealth waters, about 374 km west-northwest of Dampier, to the State waters boundary at the northern extent of the Dampier Archipelago.	Activities are Jocated in Permit Area WA-61-L in Commonwealth waters, about 374 km west-northwest of Dampier, Western Australia. Approximate development well locations for the eight planned wells are provided in Table 2 of the attached D&C EP Consultation Information Sheet.	Australia.	Activities are Jocated in permit Areas WA-61-L and WA-62-L, around 374 km west-northwest of Dampier, Western Australia.
Approx. Water Depth (m):	~ 32 m – 1400 m	~ 900 m – 955 m	~ 800 m – 1,150 m	~ 900 m – 1000 m
Earliest commencement date:	Seabed intervention activities: Mid 2023 pending approvals, vessel availability and weather constraints. Trunkline installation activities: Q4 2023 pending successful completion approvals, vessel availability and weather constraints.	Activities planned to commence in H2 2023 pending approvals, vessel availability and weather constraints.	Activities planned to commence in H1 2023 pending approvals, vessel availability and weather constraints.	Activities planned to commence in H2 2023 (and estimated to be completed in 18 months with activities occurring in multiple campaigns).
Estimated duration:	~24 months across multiple campaigns	~50 – 60 days per well	~55 – 70 days	~18 months (cumulative) for the survey and installation activities

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Distance from Operational Area to nearest town Distance from Operational Area to nearest marine park	The closest Commonwealth section of the trunkline on the State waters boundary is~32 km north-west of Dampier. • The trunkline corridor runs through the Montebello Marine Park – Multiple Use Zone (Couth), close to the northern boundary • Offshore borrow ground located to the	~244 km north-northwest of Exmouth, 374 km west- northwest of Dampier. • ~83 km north of the Gascoyne Marine Park (Cwlth) • ~206 km north-west of Montebello Marine Park (Cwlth) • ~208 km north- northwest of Ningaloo	• ~46 km north of Gascoyne Marine Park Multiple Use Zone	~ 244 km north- northwest of Exmouth, ~ 374 km west- northwest of Dampier. • ~ 77 km north of the Gascoyne Marine Park (Cwlth) • ~ 201 km north-west of Montebello Marine Park (Cwlth) • ~ 180 km north- northwest of
Operational Area and Exclusion Zones	north of the Dampier Marine Park Habitat Protection Zone Temporary 500 m exclusion zones will apply around applicable seabed intervention and the Trunkline installation vessels. The Operational Areas are: • Trunkline Project Area: The proposed trunkline from around KP 32 (Commonwealth – State Boundary) to KP 435 and 1.5 km either side of the proposed trunkline centreline. • Offshore Borrow Ground Project Area: Offshore Borrow Ground Incated in Commonwealth waters.	A petroleum safety zone of 500 m will be in place around the MODU and installation vessel for the duration of activities. The Operational Areas are: • DP MODU/drillship – 500 m radius from each well centre • Moored MODU – 4,000 m radius from each well centre. • Installation vessel – 1,500 m radius around subsea locations	this area during the survey to ensure the	Ningaloo Marine Park (Cwlth) The Operational Area for activities includes a radius of: • 1,000 m around location of the outermost concrete pads. • 1,500 m around location of subsea infrastructure. • 2,000 m around future location of FPU. • Temporary 500 m exclusion zone around vessels to manage vessel movements • An interactive map showing the location of the proposed activities will be available on the Woodside website and will be updated throughout the
Vessels:	Seabed intervention: Trailing suction hopper dredge Offshore construction vessel Rock Installation Vessel Survey vessels Surport vessels Fuel bunkering vessels Trunkline installation: Pipelay Vessel multijoint operation	Installation vessels for installing the subsea infrastructure Light well intervention vessel as an option for well intervention, subsea hardware installation or contingent activities Support vessels including installation vessel(s), anchor handling vessel(s) and general supply/support	A purpose-built seismic vessel One support vessel A potential chase vessel, and An additional spotter vessel (May to June)	proposed activities Light construction vessels Heavy construction vessels Heavy lift vessels Derrick lay vessel Reel-lay vessels Survey vessels Survey vessels

Shallow Water Lay	vessels	
Barge		
Anchor handling		
vessel/tug		
Pipe supply vessels		
 Offshore construction 		
vessel		
Survey vessels		
Fuel bunkering vessels		

If you have any issues or concerns with these activities, or any other issues relevant to this location, please respond to Woodside at:

Feedback@woodside.com.au or 1800 442 977.

Your feedback and our response will be included in our Environment Plan which will be submitted to submitted to the National Offshore Petroleum Safety and Environmental Management Authority (NOPSEMA) for acceptance in accordance with the Offshore Petroleum and Greenhouse Gas Storage (Environment) Regulations 2009 (Cth.).

Please let us know if your feedback for any of the activities proposed under an Environment Plan is sensitive and we will make this known to NOPSEMA upon submission of the Environment Plan to ensure this information remains confidential to NOPSEMA.

Please provide your views by 8 March 2023.

Regards,

Woodside Feedback



Woodside Energy Mia Yellagonga Karlak, 11 Mount Street Perth WA 6000 Australia T: 1800 442 977
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APPENDIX A

ALL EMPIY V				
FEEDBACK	SITI EP	D&C EP	Seismic EP	Subsea EP

Attached: Consultation Information Sheets for the SITI EP, D&C EP, Seismic EP and Subsea EP

1.151 Letter sent to Pilbara/Kimberley Recreational Marine Users (95 Licence Holders) (6 February 2023)

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Please direct all responses/queries to: T: 1800 442 977 E: Feedback@woodside.com.au

6 February 2023



Woodside Energy Group Ltd

ACN 004 898 982 Mia Yellagonga

11 Mount Street Perth WA 6000 Australia

T: +61 8 9348 4000

www.woodside.com

Dear Stakeholder

Woodside has submitted Environment Plans (EPs) to undertake the following activities in Commonwealth waters for the Scarborough development:

- seabed intervention and trunkline installation activities for the section of the Trunkline in Commonwealth waters under the Scarborough Seabed Intervention and Trunkline Installation EP (SITI EP); and
- seabed site surveys and installation of subsea production infrastructure under the Subsea Infrastructure Installation EP (Subsea EP).

Updated consultation Information Sheets are attached, which provide additional background on the proposed activities, including summaries of potential key impacts and risks, and associated management measures. These are also available on our website.

As we are inviting consultation with you on each of the EPs above, for ease of reference, we have attached the information in this one email. In an effort to simplify feedback, we have also included a feedback template (Appendix A) which you may wish to use to provide your feedback specific to the proposed EPs.

Woodside has previously submitted Revision 1 of the SITI EP to NOPSEMA which has been available on the NOPSEMA website since January 2022 (https://info.nopsema.gov.au/environment_plans/575/show_public). Woodside is preparing to submit a further revision of the SITI EP to NOPSEMA with recent changes. We confirm the activities, location and duration described in this revision remains the same, with no material changes. The Subsea EP has not yet been submitted to NOPSEMA.

The SITI EP and Subsea EP fall under the primary environmental approval of the Scarborough Offshore Project Proposal (OPP). The OPP includes a detailed description of activities, an assessment of the potential impacts and risks and includes management measures to demonstrate that the potential impacts and risks will be of an acceptable level. It was accepted by NOPSEMA in March 2020 after an extensive public consultation process.

More information on the Scarborough Project can be found here.

If you have feedback specific to each of the proposed activities described under the relevant EPs, please respond to Woodside at Feedback@woodside.com.au or 1800 442 977 by 8 March 2023.

Activity:

	SITI EP	Subsea EP
Summary:	Seabed intervention and trunkline installation activities in Commonwealth waters associated with the installation of a carbon steel pipeline (Trunkline) that runs approximately 430 km from the from the proposed offshore Scarborough Floating Production Unit (FPU) to the existing onshore Pluto LNG facility. This EP covers activities for the approximately 400 km section of the Trunkline in Commonwealth waters. A separate EP covers activities in State waters.	Seabed site surveys and installation of subsea production infrastructure. Activities include visual pre- and post-installation surveys, and installation of flowlines, umbilicals and risers and ancillary infrastructure, required for the flow and control of hydrocarbons and produced water to the Scarborough Floating Production Unit (FPU). Mooring legs and suction piles will also be

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		installed and a gravimentry survey is also planned.
Location:	Activities run from the Scarborough FPU in WA- 61-L in Commonwealth waters, about 374 km west-northwest of Dampier, to the State waters boundary at the northern extent of the Dampier Archipelago.	Activities are Jocated in permit Areas WA-81-L and WA-82-L, around 374 km west-northwest of Dampier, Western Australia.
Approx. Water Depth (m):	~ 32 m – 1400 m	~ 900 m – 1000 m
Earliest commencement date:	Seabed intervention activities: Mid 2023 pending approvals, vessel availability and weather constraints.	Activities planned to commence in H2 2023 (and estimated to be completed in 18 months with activities occurring in multiple campaigns).
	Trunkline installation activities: Q4 2023 pending successful completion approvals, vessel availability and weather constraints.	
Estimated duration:	~24 months across multiple campaigns	~18 months (cumulative) for the survey and installation activities
Distance from Operational Area to nearest town	The closest Commonwealth section of the trunkline on the State waters boundary is~32 km north-west of Dampier.	~ 244 km north-northwest of Exmouth, ~ 374 km west-northwest of Dampier.
Distance from Operational Area to nearest marine park	The trunkline corridor runs through the Montebello Marine Park – Multiple Use Zone (Couth), close to the northern boundary Offshore borrow ground located to the north of the Dampier Marine Park Habitat Protection Zone	~ 77 km north of the Gascoyne Marine Park (Cwlth) ~ 201 km north-west of Montebello Marine Park (Cwlth) ~ 180 km north-northwest of Ningaloo Marine Park (Cwlth)
Operational Area and Exclusion Zones	Temporary 500 m exclusion zones will apply around applicable seabed intervention and the Trunkline installation vessels. The Operational Areas are: • Trunkline Project Area: The proposed trunkline from around KP 32 (Commonwealth – State Boundary) to KP 435 and 1.5 km either side of the proposed trunkline centreline. • Offshore Borrow Ground Project Area: Offshore Borrow Ground located in Commonwealth waters.	The Operational Area for activities includes a radius of: 1,000 m around location of the outermost concrete pads. 1,500 m around location of subsea infrastructure. 2,000 m around future location of FPU. Temporary 500 m exclusion zone around vessels to manage vessel movements. An interactive map showing the location of the proposed activities will be available on the Woodside website and will be updated throughout the proposed activities.
Vessels:	Seabed intervention: Trailing suction hopper dredge Offshore construction vessel Rock Installation Vessel Survey vessels Support vessels Fuel bunkering vessels Trunkline installation: Pipelay Vessel multi-joint operation Shallow Water Lay Barge	Light construction vessels Heavy construction vessels Heavy lift vessels Derrick lay vessel Reel-lay vessels Survey vessels Survey vessels

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Anchor handling vessel/tug	
Pipe supply vessels	
Offshore construction vessel	
Survey vessels	
Fuel bunkering vessels	

If you have any issues or concerns with these activities, or any other issues relevant to this location, please respond to Woodside at:

Feedback@woodside.com.au or 1800 442 977.

Your feedback and our response will be included in our Environment Plan which will be submitted to submitted to the National Offshore Petroleum Safety and Environmental Management Authority (NOPSEMA) for acceptance in accordance with the Offshore Petroleum and Greenhouse Gas Storage (Environment) Regulations 2009 (Cth.).

Please let us know if your feedback for any of the activities proposed under an Environment Plan is sensitive and we will make this known to NOPSEMA upon submission of the Environment Plan to ensure this information remains confidential to NOPSEMA.

Please provide your views by 8 March 2023.

Regards,

Woodside Feedback



Woodside Energy Mia Yellagonga Karlak, 11 Mount Street Perth WA 6000 Australia T: 1800 442 977

E: feedback@woodside.com.au

www.woodside.com

APPENDIX A		
FEEDBACK	SITI EP	Subsea EP
		CITI ED

Attached: Consultation Information Sheets for the SITI EP and Subsea EP

1.152 Email sent to UWA (6 February 2023)

Dear

Woodside appreciated the opportunity to meet with you in December to discuss the Scarborough development and related Environment Plans (Scarborough EPs).

We understand from our meeting in December 2022 that the proposed Scarborough activities are predominantly outside the scope of interest for UWA. For awareness, Woodside wanted to bring to your attention that it has updated its consultation Information Sheets for the Scarborough EPs, which provide additional background on the proposed activities, including summaries of potential key impacts and risks, and associated management measures. These are attached and are also available on our website.

As Woodside will soon be submitting the proposed EP's, should UWA have any additional feedback on the proposed activities, please let us know by **8 March 2023**. More information on the Scarborough Project can be found here.

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Your feedback and our response will be included in the Scarborough EPs which will be submitted to the National Offshore Petroleum Safety and Environmental Management Authority (NOPSEMA) for acceptance in accordance with the Offshore Petroleum and Greenhouse Gas Storage (Environment) Regulations 2009 (Cth).

Please let us know if your feedback for any of the activities proposed under an Environment Plan is sensitive and we will make this known to NOPSEMA upon submission of the Environment Plan to ensure this information remains confidential to NOPSEMA.

Regards,

1.153 Email sent to The Australian Institute of Marine Science (AIMS) (6 February 2023)

Dear

Woodside has submitted Environment Plans (EPs) to undertake the following activities in Commonwealth waters for the Scarborough development:

- drilling and subsea tree installation activities for eight planned development wells and the potential for a
 further two additional contingency wells under the WA-61-L Scarborough Drilling and Completions EP
 (D&C EP);
- 4D baseline marine seismic survey (MSS) activities over the Scarborough and Jupiter field under the Scarborough 4D Baseline Marine Seismic Survey EP (Seismic EP); and
- seabed site surveys and installation of subsea production infrastructure under the Subsea Infrastructure Installation EP (Subsea EP).

Updated consultation Information Sheets are attached, which provide additional background on the proposed activities, including summaries of potential key impacts and risks, and associated management measures. These are also available on our website.

As we are inviting consultation with you on each of the EPs above, for ease of reference, we have attached the information in this one email. In an effort to simplify feedback, we have also included a feedback template (Appendix A) which you may wish to use to provide your feedback specific to the proposed EPs.

Revision 0 of the **D&C EP** has been available on the NOPSEMA website since November 2021 (https://info.nopsema.gov.au/environment_plans/565/show_public). Revision 0 of the **Seismic EP** has been available on the NOPSEMA website since 18 October 2021 (https://info.nopsema.gov.au/environment_plans/559/show_public).

Woodside is preparing to submit a further revision of the D&C EP and Seismic EP to NOPSEMA with recent changes. We confirm the activities, location and duration described in these revisions remain the same, with no material changes. The Subsea EP has not yet been submitted to NOPSEMA.

The D&C EP and Subsea EP fall under the primary environmental approval of the <u>Scarborough Offshore Project Proposal</u> (OPP). The OPP includes a detailed description of activities, an assessment of the potential impacts and risks and includes management measures to demonstrate that the potential impacts and risks will be of an acceptable level. It was accepted by NOPSEMA in March 2020 after an extensive public consultation process.

More information on the Scarborough Project can be found here.

Woodside is seeking your advice regarding any research activities that AIMS may be undertaking that may overlap with our proposed activities.

If you have feedback specific to each of the proposed activities described under the relevant EPs, please respond to Woodside at Feedback@woodside.com.au or 1800 442 977 by **8 March 2023**.

Activity:

	D&C EP	Seismic EP	Subsea EP

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	In the second second	45.1	0 1 1 %
Summary:	Drilling and Completions activities in Commonwealth waters, including drilling and subsea tree installation activities for eight planned development wells and the potential for a further two contingency wells. Woodside may need to intervene, workover or re-drill the wells. Subsea inspection, monitoring, maintenance and subsea infrastructure repair activities may also be undertaken.	4D baseline seismic survey over the Scarborough and Jupiter fields. The proposed survey will be conducted over areas where seismic data has previously been acquired. The objective for the proposed activity is to acquire a new 3D seismic survey data that will provide the baseline for future 'time lapse' reservoir surveillance (or technically termed 4D baseline survey).	Seabed site surveys and installation of subsea production infrastructure. Activities include visual pre- and post-installation surveys, and installation of flowlines, umbilicals and risers and ancillary infrastructure, required for the flow and control of hydrocarbons and produced water to the Scarborough Floating Production Unit (FPU). Mooring legs and suction piles will also be installed and a gravimentry survey is also planned.
Location:	Activities are located in Permit Area WA-61-L in Commonwealth waters, about 374 km west-northwest of Dampier, Western Australia. Approximate development well locations for the eight planned wells are provided in Table 2 of the attached D&C EP Consultation Information Sheet.	the Scarborough and Jupiter fields within Commonwealth waters, located in the Exmouth Plateau, approximately 214 km north west of Exmouth,	Activities are located in permit Areas WA-61-L and WA-62-L, around 374 km west-northwest of Dampier, Western Australia.
Approx. Water Depth (m):	~ 900 m – 955 m	~ 800 m – 1,150 m	~ 900 m – 1000 m
Earliest commencement date:	Activities planned to commence in H2 2023 pending approvals, vessel availability and weather constraints.	Activities planned to commence in H1 2023 pending approvals, vessel availability and weather constraints.	Activities planned to commence in H2 2023 (and estimated to be completed in 18 months with activities occurring in multiple campaigns).
Estimated duration:	~50 – 60 days per well	~55 – 70 days	~18 months (cumulative) for the survey and installation activities
Distance from Operational Area to nearest town	~244 km north-northwest of Exmouth, 374 km west-northwest of Dampier.	~214 km north-west of Exmouth.	~ 244 km north-northwest of Exmouth, ~ 374 km west-northwest of Dampier.
Distance from Operational Area to nearest marine park	~83 km north of the Gascoyne Marine Park (Cwlth) ~206 km north-west of Montebello Marine Park (Cwlth) ~208 km north-northwest of Ningaloo Marine Park (Cwlth)	~46 km north of Gascoyne Marine Park Multiple Use Zone	 ~77 km north of the Gascoyne Marine Park (Cwlth) ~201 km north-west of Montebello Marine Park (Cwlth) ~180 km north-northwest of Ningaloo Marine Park (Cwlth)
Operational Area and Exclusion Zones	A petroleum safety zone of 500 m will be in place around the MODU and installation vessel for the duration of activities. The Operational Areas are: • DP MODU/drillship – 500 m radius from each well centre	 Three nautical mile radius safe navigation area around the seismic vessel, streamers and tail buoys during seismic operations Marine users are requested to avoid this area during the survey to ensure the safety 	The Operational Area for activities includes a radius of: • 1,000 m around location of the outermost concrete pads. • 1,500 m around location of subsea infrastructure. • 2,000 m around future location of FPU.

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	Moored MODU – 4,000 m radius from each well centre. Installation vessel – 1,500 m radius around subsea locations	of the seismic vessel and third-party vessels Refer to Table 3 of the attached Seismic EP Consultation Information Sheet for detailed survey location points	Temporary 500 m exclusion zone around vessels to manage vessel movements An interactive map showing the location of the proposed activities will be available on the Woodside website and will be updated throughout the proposed activities
Vessels:	Installation vessels for installing the subsea infrastructure Light well intervention vessel as an option for well intervention, subsea hardware installation or contingent activities Support vessels including installation vessel(s), anchor handling vessel(s) and general supply/support vessels	A purpose-built seismic vessel One support vessel A potential chase vessel, and An additional spotter vessel (May to June)	Light construction vessels Heavy construction vessels Heavy lift vessels Derrick lay vessel Reel-lay vessels Survey vessels Support vessels

If you have any issues or concerns with these activities, or any other issues relevant to this location, please respond to Woodside at:

Feedback@woodside.com.au or 1800 442 977.

Your feedback and our response will be included in our Environment Plan which will be submitted to the National Offshore Petroleum Safety and Environmental Management Authority (NOPSEMA) for acceptance in accordance with the Offshore Petroleum and Greenhouse Gas Storage (Environment) Regulations 2009 (Cth).

Please let us know if your feedback for any of the activities proposed under an Environment Plan is sensitive and we will make this known to NOPSEMA upon submission of the Environment Plan to ensure this information remains confidential to NOPSEMA.

Please provide your views by 8 March 2023.

Regards,

1.154 Letter sent to Nickol Bay Prawn Managed Fishery (14 Licence Holders), Western Australian Sea Cucumber Managed Fishery (6 Licence Holders), Gascoyne Demersal Scalefish Fishery (53 Licence Holders), Specimen Shell Managed Fishery, Onslow Prawn Managed Fishery (30 Licence Holders) (6 February 2023)

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Flease direct all responses/queries to:

Woodside Energy Group Ltd
Woodside Feedback
11: 1800 442: 817
E- Feedback@woodside.com.au

Mila Yellagonga

Mia Yellagonga 11 Mount Street Perth WA 6000 Australia

T: +61 8 9348 4000 www.woodside.com

6 February 2023

Dear Fishery Stakeholder

Woodside has submitted Environment Plans (EPs) to undertake the following activities in Commonwealth waters for the Scarborough development:

- seabed intervention and trunkline installation activities for the section of the Trunkline in Commonwealth waters under the Scarborough Seabed Intervention and Trunkline Installation EP (SITI EP); and
- seabed site surveys and installation of subsea production infrastructure under the Subsea Infrastructure Installation EP (Subsea EP).

Updated consultation Information Sheets are attached, which provide additional background on the proposed activities, including summaries of potential key impacts and risks, and associated management measures. These are also available on our website. Also attached are State fishery figures.

As we are inviting consultation with you on each of the EPs above, for ease of reference, we have attached the information in this one email. In an effort to simplify feedback, we have also included a feedback template (Appendix A) which you may wish to use to provide your feedback specific to the proposed EPs.

Woodside has previously submitted Revision 1 of the SITI EP to NOPSEMA which has been available on the NOPSEMA website since January 2022 (https://info.nopsema.gov.au/environment-plans/575/show-public). Woodside is preparing to submit a further revision of the SITI EP to NOPSEMA with recent changes. We confirm the activities, location and duration described in this revision remains the same, with no material changes. The Subsea EP has not yet been submitted to NOPSEMA.

The SITI EP and Subsea EP fall under the primary environmental approval of the <u>Scarborough Offshore Project Proposal</u> (OPP). The OPP includes a detailed description of activities, an assessment of the potential impacts and risks and includes management measures to demonstrate that the potential impacts and risks will be of an acceptable level. It was accepted by NOPSEMA in March 2020 after an extensive public consultation process.

More information on the Scarborough Project can be found here.

If you have feedback specific to each of the proposed activities described under the relevant EPs, please respond to Woodside at Feedback@woodside.com.au or 1800 442 977 by 5 March 2023.

Activity:

	SITI EP	Subsea EP
Summary:	Seabed intervention and trunkline installation activities in Commonwealth waters associated with the installation of a carbon steel pipeline (Trunkline) that runs approximately 430 km from the from the proposed offshore Scarborough Floating Production Unit (FPU) to the existing onshore Pluto LNG facility. This EP covers activities for the approximately 400 km section of the Trunkline in Commonwealth waters. A separate EP covers activities in State waters.	Seabed site surveys and installation of subsea production infrastructure. Activities include visual pre- and post-installation surveys, and installation of flowlines, umbilicals and risers and ancillary infrastructure, required for the flow and control of hydrocarbons and produced water to the Scarborough Floating Production Unit (FPU). Mooring legs and suction piles will also be

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		installed and a gravimentry survey is also	
		planned.	
Activities run from the Scarborough FPU in WA- 61-L in Commonwealth waters, about 374 km west-northwest of Dampier, to the State waters boundary at the northern extent of the Dampier Archipelago.		Activities are located in permit Areas WA-61-L and WA-62-L, around 374 km west-northwest of Dampier, Western Australia.	
Approx. Water Depth (m):	~ 32 m – 1400 m	~ 900 m – 1000 m	
Earliest commencement date:	Seabed intervention activities: Mid 2023 pending approvals, vessel availability and weather constraints.	Activities planned to commence in H2 2023 (and estimated to be completed in 18 months with activities occurring in multiple campaigns).	
	Trunkline installation activities: Q4 2023 pending successful completion approvals, vessel availability and weather constraints.		
Estimated duration:	~24 months across multiple campaigns	~18 months (cumulative) for the survey and installation activities	
Distance from Operational Area to nearest town The closest Commonwealth section of the trunkline on the State waters boundary is~32 km north-west of Dampier.		~ 244 km north-northwest of Exmouth, ~ 374 km west-northwest of Dampier.	
Distance from Operational Area to nearest marine park • The trunkline corridor runs through the Montebello Marine Park – Multiple Use Zone (Cwth), close to the northern boundary • Offshore borrow ground located to the north of the Dampier Marine Park Habitat Protection Zone		~ 77 km north of the Gascoyne Marine Park (Cwlth) ~ 201 km north-west of Montebello Marine Park (Cwlth) ~ 180 km north-northwest of Ningaloo Marine Park (Cwlth)	
Operational Area and Exclusion Zones	Temporary 500 m exclusion zones will apply around applicable seabed intervention and the Trunkline installation vessels. The Operational Areas are: • Trunkline Project Area: The proposed trunkline from around KP 32 (Commonwealth – State Boundary) to KP 435 and 1.5 km either side of the proposed trunkline centreline. • Offshore Borrow Ground Project Area: Offshore Borrow Ground located in Commonwealth waters.	The Operational Area for activities includes a radius of: • 1,000 m around location of the outermost concrete pads. • 1,500 m around location of subsea infrastructure. • 2,000 m around future location of FPU. • Temporary 500 m exclusion zone around vessels to manage vessel movements • An interactive map showing the location of the proposed activities will be available on the Woodside website and will be updated throughout the proposed activities	
Vessels:	Seabed intervention: Trailing suction hopper dredge Offshore construction vessel Rock Installation Vessel Survey vessels Support vessels Fuel bunkering vessels Trunkline installation: Pipelay Vessel multi-joint operation Shallow Water Lay Barge	Light construction vessels Heavy construction vessels Heavy lift vessels Derrick lay vessel Reel-lay vessels Survey vessels Surpport vessels	

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Anchor handling vessel/tug	
 Pipe supply vessels 	
 Offshore construction vessel 	
Survey vessels	
Fuel bunkering vessels	

If you have any issues or concerns with these activities, or any other issues relevant to this location, please respond to Woodside at:

Feedback@woodside.com.au or 1800 442 977.

Your feedback and our response will be included in our Environment Plan which will be submitted to submitted to the National Offshore Petroleum Safety and Environmental Management Authority (NOPSEMA) for acceptance in accordance with the Offshore Petroleum and Greenhouse Gas Storage (Environment) Regulations 2009 (Cth.).

Please let us know if your feedback for any of the activities proposed under an Environment Plan is sensitive and we will make this known to NOPSEMA upon submission of the Environment Plan to ensure this information remains confidential to NOPSEMA.

Please provide your views by 8 March 2023.

Regards,

Woodside Feedback



Woodside Energy Mia Yellagonga Karlak, 11 Mount Street Perth WA 6000 Australia T: 1800 442 977

E: feedback@woodside.com.au

www.woodside.com

‡•	APPENDIX A		
	FEEDBACK	SITI EP	Subsea EP
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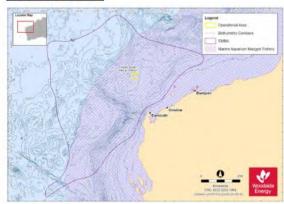
Attached: Consultation Information Sheets for the SITI EP and Subsea EP

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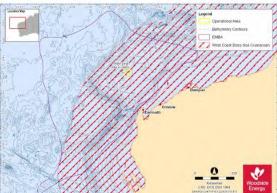
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Subsea Infrastructure Installation EP (Subsea EP)

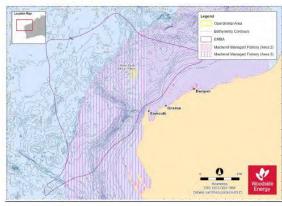
Marine Aquarium Managed Fishery



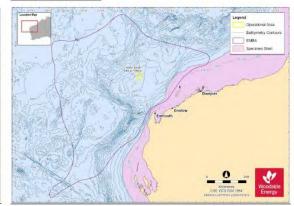
West Coast Deep Sea Crustacean Managed Fishery



Mackerel Managed Fishery (Area 2 and 3)



Specimen Shell Managed Fishery



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Onslow Prawn Managed Fishery



Western Australian Sea Cucumber Managed Fishery



Nickol Bay Prawn Managed Fishery



Gascoyne Demersal Scalefish Fishery



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Pilbara Trawl Fishery



Pilbara Trap Fishery





1.155 Email to 350 Australia (6 February 2023)

Dear

Woodside previously consulted you (email below) on its plans to undertake seabed site surveys and installation of subsea production infrastructure under the Subsea Infrastructure Installation EP (**Subsea EP**) in Commonwealth waters for the Scarborough development.

Woodside wanted to bring to your attention that it has updated its consultation Information Sheet for the **Subsea EP**, which provides additional background on the proposed activities, including summaries of potential key impacts and risks, and associated management measures. This is attached and is also available on our <u>website</u>.

Woodside welcomes any additional feedback 350 Australia may have in relation to the Subsea EP by **8 March 2023**.

Your feedback and our response will be included in the Subsea EP which will be submitted to the National Offshore Petroleum Safety and Environmental Management Authority (NOPSEMA) for acceptance in accordance with the Offshore Petroleum and Greenhouse Gas Storage (Environment) Regulations 2009 (Cth).

Please let us know if your feedback for any of the activities proposed under the Subsea EP is sensitive and we will make this known to NOPSEMA upon submission of the Environment Plan to ensure this information remains confidential to NOPSEMA.

Regards,

1.156 Email to Australian Marine Conservation Society (AMCS) (6 February 2023) Dear AMCS

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Woodside previously consulted you (email below) on its plans to undertake seabed site surveys and installation of subsea production infrastructure under the Subsea Infrastructure Installation EP (**Subsea EP**) in Commonwealth waters for the Scarborough development.

Woodside wanted to bring to your attention that it has updated its consultation Information Sheet for the **Subsea EP**, which provides additional background on the proposed activities, including summaries of potential key impacts and risks, and associated management measures. This is attached and is also available on our <u>website</u>.

Woodside welcomes any additional feedback AMCS may have in relation to the Subsea EP by 8 March 2023.

Your feedback and our response will be included in the Subsea EP which will be submitted to the National Offshore Petroleum Safety and Environmental Management Authority (NOPSEMA) for acceptance in accordance with the Offshore Petroleum and Greenhouse Gas Storage (Environment) Regulations 2009 (Cth).

Please let us know if your feedback for any of the activities proposed under the Subsea EP is sensitive and we will make this known to NOPSEMA upon submission of the Environment Plan to ensure this information remains confidential to NOPSEMA.

Regards,

1.157 Email to Conservation Council of Western Australia (CCWA) (6 February 2023)

Dear CCWA

Woodside previously consulted you (email below) on its plans to undertake seabed site surveys and installation of subsea production infrastructure under the Subsea Infrastructure Installation EP (**Subsea EP**) in Commonwealth waters for the Scarborough development.

Woodside wanted to bring to your attention that it has updated its consultation Information Sheet for the **Subsea EP**, which provides additional background on the proposed activities, including summaries of potential key impacts and risks, and associated management measures. This is attached and is also available on our <u>website</u>.

Woodside welcomes any additional feedback CCWA may have in relation to the Subsea EP by 8 March 2023.

Your feedback and our response will be included in the Subsea EP which will be submitted to the National Offshore Petroleum Safety and Environmental Management Authority (NOPSEMA) for acceptance in accordance with the Offshore Petroleum and Greenhouse Gas Storage (Environment) Regulations 2009 (Cth).

Please let us know if your feedback for any of the activities proposed under the Subsea EP is sensitive and we will make this known to NOPSEMA upon submission of the Environment Plan to ensure this information remains confidential to NOPSEMA.

Regards,

1.158 Email to Sea Shepherd Australia (SSA) (6 February 2023)

Dear Sea Shepherd Australia

Woodside previously consulted you (email below) on its plans to undertake seabed site surveys and installation of subsea production infrastructure under the Subsea Infrastructure Installation EP (**Subsea EP**) in Commonwealth waters for the Scarborough development.

Woodside wanted to bring to your attention that it has updated its consultation Information Sheet for the **Subsea EP**, which provides additional background on the proposed activities, including summaries of potential key impacts and risks, and associated management measures. This is attached and is also available on our website.

Woodside welcomes any additional feedback Sea Shepherd Australia may have in relation to the Subsea EP by 8 March 2023.

Your feedback and our response will be included in the Subsea EP which will be submitted to the National Offshore Petroleum Safety and Environmental Management Authority (NOPSEMA) for acceptance in accordance with the Offshore Petroleum and Greenhouse Gas Storage (Environment) Regulations 2009 (Cth).

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Please let us know if your feedback for any of the activities proposed under the Subsea EP is sensitive and we will make this known to NOPSEMA upon submission of the Environment Plan to ensure this information remains confidential to NOPSEMA.

Regards,

1.159 Email to The Wilderness Society (TWS) (6 February 2023)

Dear

Woodside appreciated the opportunity to meet with you in October to discuss the Scarborough development and related Environment Plans.

Woodside wanted to bring to your attention that it has updated its consultation Information Sheet for the Subsea Infrastructure Installation EP (**Subsea EP**), which provides additional background on the proposed activities, including summaries of potential key impacts and risks, and associated management measures. A copy of this is attached.

Woodside welcomes any additional feedback which The Wilderness Society may have on the proposed Subsea EP by **8 March 2023**.

Your feedback and our response will be included in the Subsea EP which will be submitted to the National Offshore Petroleum Safety and Environmental Management Authority (NOPSEMA) for acceptance in accordance with the Offshore Petroleum and Greenhouse Gas Storage (Environment) Regulations 2009 (Cth).

Please let us know if your feedback for any of the activities proposed under the Subsea EP is sensitive and we will make this known to NOPSEMA upon submission of the Subsea EP to ensure this information remains confidential to NOPSEMA.

Regards,

1.160 Email sent to Commonwealth Scientific and Industrial Research Organisation (CSIRO) (6 February 2023)

Dear CSIRO Enquiries Team, and and

Woodside previously noted (see email below) that there will be a number of opportunities to provide feedback on its proposed activities.

Woodside previously consulted you on its submitted Environment Plan (EPs) to undertake seabed intervention and trunkline installation activities under the Scarborough Seabed Intervention and Trunkline Installation EP (SITI EP – Commonwealth and State components).

As part of its ongoing consultation with the CSIRO, Woodside is also seeking your advice regarding any research activities that CSIRO may be undertaking that may overlap with our proposed activities regarding:

- drilling and subsea tree installation activities for eight planned development wells and the potential for a
 further two additional contingency wells under the WA-61-L Scarborough Drilling and Completions EP
 (D&C EP);
- 4D baseline marine seismic survey (MSS) activities over the Scarborough and Jupiter field under the Scarborough 4D Baseline Marine Seismic Survey EP (Seismic EP); and
- seabed site surveys and installation of subsea production infrastructure under the Subsea Infrastructure Installation EP (Subsea EP).

Updated consultation Information Sheets are attached, which provide additional background on the proposed activities, including summaries of potential key impacts and risks, and associated management measures. These are also available on our website. Also attached are Commonwealth fishery figures.

As we are inviting consultation with you on each of the EPs above, for ease of reference, we have attached the information in this one email. In an effort to simplify feedback, we have also included a feedback template (Appendix A) which you may wish to use to provide your feedback specific to the proposed EPs.

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Woodside has previously submitted Revision 1 of the **SITI EP** to NOPSEMA which has been available on the NOPSEMA website since January 2022 (https://info.nopsema.gov.au/environment_plans/575/show_public). Revision 0 of the **D&C EP** has been available on the NOPSEMA website since November 2021 (https://info.nopsema.gov.au/environment_plans/565/show_public). Revision 0 of the **Seismic EP** has been available on the NOPSEMA website since 18 October 2021 (https://info.nopsema.gov.au/environment_plans/559/show_public).

Woodside is preparing to submit a further revision of the SITI EP, D&C EP and Seismic EP to NOPSEMA with recent changes. We confirm the activities, location and duration described in these revisions remain the same, with no material changes. The Subsea EP has not yet been submitted to NOPSEMA.

The SITI EP, D&C EP and Subsea EP fall under the primary environmental approval of the <u>Scarborough Offshore Project Proposal</u> (OPP). The OPP includes a detailed description of activities, an assessment of the potential impacts and risks and includes management measures to demonstrate that the potential impacts and risks will be of an acceptable level. It was accepted by NOPSEMA in March 2020 after an extensive public consultation process.

More information on the Scarborough Project can be found here.

If you have additional feedback specific to each of the proposed activities described under the relevant EPs, please respond to Woodside at Feedback@woodside.com.au or 1800 442 977 by 8 March 2023.

Activity:

	SITI EP	D&C EP	Seismic EP	Subsea EP
Summary:	Seabed intervention and trunkline installation activities in Commonwealth waters associated with the installation of a carbon steel pipeline (Trunkline) that runs approximately 430 km from the from the proposed offshore Scarborough Floating Production Unit (FPU) to the existing onshore Pluto LNG facility. This EP covers activities for the approximately 400 km section of the Trunkline in Commonwealth waters. A separate EP covers activities in State waters.	Drilling and Completions activities in Commonwealth waters, including drilling and subsea tree installation activities for eight planned development wells and the potential for a further two contingency wells. Woodside may need to intervene, workover or re-drill the wells. Subsea inspection, monitoring, maintenance and subsea infrastructure repair activities may also be undertaken.	proposed activity is to acquire a new 3D seismic survey data that will	Seabed site surveys and installation of subsea production infrastructure. Activities include visual pre- and post-installation surveys, and installation of flowlines, umbilicals and risers and ancillary infrastructure, required for the flow and control of hydrocarbons and produced water to the Scarborough Floating Production Unit (FPU). Mooring legs and suction piles will also be installed and a gravimentry survey is also planned.
Location:	Activities run from the Scarborough FPU in WA-61-L in Commonwealth waters, about 374 km west-northwest of Dampier, to the State waters boundary at the northern extent of the Dampier Archipelago.	Activities are located in Permit Area WA-61-L in Commonwealth waters, about 374 km west-northwest of Dampier, Western Australia. Approximate development well locations for the eight planned wells are provided in Table 2 of the attached D&C EP Consultation Information Sheet.	The seismic survey will cover the Scarborough and Jupiter fields within Commonwealth waters, located in the Exmouth Plateau, approximately 214 km north west of Exmouth, Western Australia.	Activities are located in permit Areas WA-61-L and WA-62-L, around 374 km west-northwest of Dampier, Western Australia.
Approx. Water Depth (m):	~ 32 m – 1400 m	~ 900 m – 955 m	~ 800 m – 1,150 m	~ 900 m – 1000 m

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Earliest commencement date:	Seabed intervention activities: Mid 2023 pending approvals, vessel availability and weather constraints. Trunkline installation activities: Q4 2023 pending successful completion approvals, vessel availability and	Activities planned to commence in H2 2023 pending approvals, vessel availability and weather constraints.	Activities planned to commence in H1 2023 pending approvals, vessel availability and weather constraints.	Activities planned to commence in H2 2023 (and estimated to be completed in 18 months with activities occurring in multiple campaigns).
Estimated duration:	weather constraints. ~24 months across multiple campaigns	~50 – 60 days per well	~55 – 70 days	~18 months (cumulative) for the survey and installation activities
Distance from Operational Area to nearest town	The closest Commonwealth section of the trunkline on the State waters boundary is~32 km north-west of Dampier.	~244 km north-northwest of Exmouth, 374 km west-northwest of Dampier.	~214 km north-west of Exmouth.	~ 244 km north-northwest of Exmouth, ~ 374 km west-northwest of Dampier.
Distance from Operational Area to nearest marine park	The trunkline corridor runs through the Montebello Marine Park Multiple Use Zone (Cwth), close to the northern boundary Offshore borrow ground located to the north of the Dampier Marine Park Habitat Protection Zone	~83 km north of the Gascoyne Marine Park (Cwlth) ~206 km north-west of Montebello Marine Park (Cwlth) ~208 km north-northwest of Ningaloo Marine Park (Cwlth)	~46 km north of Gascoyne Marine Park Multiple Use Zone	~ 77 km north of the Gascoyne Marine Park (Cwlth) ~ 201 km north-west of Montebello Marine Park (Cwlth) ~ 180 km north-northwest of Ningaloo Marine Park (Cwlth)
Operational Area and Exclusion Zones	Temporary 500 m exclusion zones will apply around applicable seabed intervention and the Trunkline installation vessels. The Operational Areas are: • Trunkline Project Area: The proposed trunkline from around KP 32 (Commonwealth – State Boundary) to KP 435 and 1.5 km either side of the proposed trunkline centreline. • Offshore Borrow Ground Project Area: Offshore Borrow Ground located in Commonwealth waters.	A petroleum safety zone of 500 m will be in place around the MODU and installation vessel for the duration of activities. The Operational Areas are: • DP MODU/drillship – 500 m radius from each well centre • Moored MODU – 4,000 m radius from each well centre. • Installation vessel – 1,500 m radius around subsea locations	Three nautical mile radius safe navigation area around the seismic vessel, streamers and tail buoys during seismic operations Marine users are requested to avoid this area during the survey to ensure the safety of the seismic vessel and third-party vessels Refer to Table 3 of the attached Seismic EP Consultation Information Sheet for detailed survey location points	outermost concrete pads. • 1,500 m around location of subsea infrastructure. • 2,000 m around future location of FPU. • Temporary 500 m exclusion zone around vessels to manage
Vessels:	Seabed intervention: • Trailing suction hopper dredge • Offshore construction vessel	Installation vessels for installing the subsea infrastructure Light well intervention vessel as an option for	A purpose-built seismic vessel One support vessel A potential chase vessel, and	Light construction vessels Heavy construction

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Rock Installation Vessel Survey vessels Support vessels Fuel bunkering vessels Trunkline installation: Pipelay Vessel multi-joint operation Shallow Water Lay Barge Anchor handling vessel/tug Pipe supply vessels Offshore construction vessel Survey vessels	well intervention, subsea hardware installation or contingent activities • Support vessels including installation vessel(s), anchor handling vessel(s) and general supply/support vessels	An additional spotter vessel (May to June)	Derrick lay vessel Reel-lay vessels Survey vessels Support vessels
Survey vessels Fuel bunkering vessels			

Feedback:

If you have any issues or concerns with these activities, or any other issues relevant to this location, please respond to Woodside at:

Feedback@woodside.com.au or 1800 442 977.

Your feedback and our response will be included in our Environment Plan which will be submitted to the National Offshore Petroleum Safety and Environmental Management Authority (NOPSEMA) for acceptance in accordance with the *Offshore Petroleum and Greenhouse Gas Storage (Environment) Regulations* 2009 (Cth).

Please let us know if your feedback for any of the activities proposed under an Environment Plan is sensitive and we will make this known to NOPSEMA upon submission of the Environment Plan to ensure this information remains confidential to NOPSEMA.

Please provide your views by 8 March 2023.

Regards,

APPENDIX A

FEEDBACK	SITI EP	D&C EP	Seismic EP	Subsea EP

1.161 Email sent to Australian Border Force (ABF), Director of National Parks (DNP), Australian Maritime Safety Authority (AMSA) – Marine Pollution, Department of Industry, Science and Resources (DISR), Department of Mines, Industry Regulation and Safety (DMIRS), Australian Petroleum Production and Exploration Association (APPEA) (22 February 2023)

Dear Stakeholder

Woodside is sending this email by way of a reminder that the consultation period is closing soon to provide feedback on Woodside's proposed activities for the Scarborough project. Please see our consultation information below and attached.

We would appreciate any feedback you may have by **26 February 2023** to support our development of the proposed Environment Plan. Kind regards,

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1.162 Email sent to Australian Fisheries Management Authority (AFMA) (22 February 2023)

Dear AFMA

Woodside is sending this email by way of a reminder that the consultation period is closing soon to provide feedback on Woodside's proposed activities for the Scarborough project. Please see our consultation information below and attached.

We would appreciate any feedback you may have by **5 March 2023** to support our development of the proposed Environment Plan.

Kind regards,

1.163 Email sent to Western Australian Fishing Industry Council (WAFIC) (22 February 2023)

Dear

Woodside is sending this email by way of a reminder that the consultation period is closing soon to provide feedback on Woodside's proposed activities for the Scarborough project. Please see our consultation information below and attached.

We would appreciate any feedback you may have by **5 March 2023** to support our development of the proposed Environment Plan.

Kind regards,

1.164 Email sent to Exmouth Recreational Marine Users (50 Licence Holders) (22 February 2023)

Dear Stakeholder

Woodside is sending this email by way of a reminder that the consultation period is closing soon to provide feedback on Woodside's proposed activities for the Scarborough project. Please see our consultation information below and attached.

We would appreciate any feedback you may have by **5 March 2023** to support our development of the proposed Environment Plan.

Kind regards,

1.165 Email sent to Yinggarda Aboriginal Corporation (YAC) via Yamatji Marlpa Aboriginal Corporation (YMAC) (22 February 2023)

Dear

I hope this message finds you well.

Further to my correspondence of 18 January regarding Woodside's plan to remove the Nganhurra Riser Turret Mooring (RTM), and correspondence of 20 January regarding Woodside's Scarborough project, please find attached information about Woodside's decommissioning and drilling activities that we are seeking to consult with Yinggarda Aboriginal Corporation (YAC) about.

With the exception of removing the Nganhurra RTM and the Scarborough project, for which Woodside is seeking YAC's feedback as soon as possible, Woodside is seeking YAC's feedback on these decommissioning and drilling activities by 17 March. The plain English summary of each of these activities is attached, and I have provided a link to the more detailed consultation information sheets below. These activities are:

Decommissioning Activities:

- Removal of the Nganhurra Riser Turret Mooring (RTM). Information about the RTM was previously emailed on 18 January. For ease of reference, the summary information is attached and the consultation information sheet for the RTM can be found at the link below.
 - o <u>consultation-information-sheet---nganhurra-operations-cessation-environment-plan-revision.pdf</u> (woodside.com)
- Stybarrow. This involves two work activities that are subject to separate environment plans; plug and abandonment (P&A) of the wells and decommissioning the infrastructure.
 - consultation-information-sheet---stybarrow-plug-and-abandonment-environment-plan.pdf (woodside.com)
 - Consultation Information Sheet Stybarrow Decommissioning Environment Plans (woodside.com)
- Griffin decommissioning.
 - consultation-information-sheet---griffin-decommissioning-environment-plans.pdf (woodside.com)

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Drilling Activities:

- TPA03 Well Intervention.
 - o Consultation Information Sheet TPA03 Well Intervention Environment Plan (woodside.com)
- WA-34-L Pyxis Drilling and Subsea Installation.
 - Consultation Information Sheet WA-34-L Pyxis Drilling and Subsea Installation Environment Plan (woodside.com)
- Julimar Appraisal Drilling.
 - Consultation Information Sheet Julimar Appraisal Drilling and Survey Environment Plan (woodside.com)

In providing this information and requests for feedback, I acknowledge correspondence of 6 February and my response of 10 February in which we discussed arrangements for a meeting between YAC and Woodside. Woodside would be most grateful for the opportunity to meet with YAC, at YAC's earliest convenience, and at a location suitable to YAC. Woodside would also be pleased to provide the resources necessary to hold this meeting and we look forward to receiving a budget for consideration. If there is anything else, we can do at this time to facilitate consultation about these planned work activities please let me know.

Thank you, for yours, YAC's and YMAC's consideration of these matters and work to progress these important consultations.

As always, please feel free to contact me on the details below if you require further information or assistance.

Yours sincerely



1.166 Email sent to Pilbara Line Fishery (8 Licence Holders) (22 February 2023)

Dear Fishery Stakeholder

Woodside is sending this email by way of a reminder that the consultation period is closing soon to provide feedback on Woodside's proposed activities for the Scarborough project. Please see our consultation information below and attached.

We would appreciate any feedback you may have by **5 March 2023** to support our development of the proposed Environment Plan.

Kind regards,

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1.167 Letter sent to Marine Aquarium Managed Fishery (12 Licence Holders), Mackerel Managed Fishery (Area 2 and 3) (43 Licence Holders), West Coast Deep Sea Crustacean Managed Fishery (7 Licence Holders) (22 February 2023)

Please direct all responses/queries to: WoodsIde Feedback T: 1800 442 977 E: Feedback@woodside.com.au

22 February 2023



Woodside Energy Group Ltd ACN 004 888 962

Mia Yellagonga 11 Mount Street Perth WA 6000

Australia

T: +61 8 9348 4000 www.woodside.com

Dear Fishery Stakeholder

Woodside previously consulted you (correspondence dated 3 February 2023) on its submitted Environment Plans (EPs) to undertake the following activities in Commonwealth waters for the Scarborough development:

- seabed intervention and trunkline installation activities for the section of the Trunkline in Commonwealth waters under the Scarborough Seabed Intervention and Trunkline Installation EP (SITI EP);
- drilling and subsea tree installation activities for eight planned development wells and the potential for a further two additional contingency wells under the WA-61-L Scarborough Drilling and Completions EP (D&C EP);
- 4D baseline marine seismic survey (MSS) activities over the Scarborough and Jupiter field under the Scarborough 4D Baseline Marine Seismic Survey EP (Seismic EP); and
- seabed site surveys and installation of subsea production infrastructure under the Subsea Infrastructure Installation EP (Subsea EP).

This correspondence included updated Consultation Information Sheets, which are also available on our website, providing additional background on the proposed activities, including summaries of potential key impacts and risks, and associated management measures.

If you have feedback specific to each of the proposed activities described under the relevant EPs, please respond to Woodside at Feedback@woodside.com.au or 1800 442 977 by 5 March 2023 2023.

Kind regards,

Woodside Feedback



Woodside Energy Mia Yellagonga Karlak, 11 Mount Street Perth WA 6000 Australia T: 1800 442 977 E: feedback@woodside.com.au www.woodside.com

1.168 Letter sent to Gascoyne Recreational Marine Users (65 Licence Holders) (22 February 2023)

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ACN 004 898 962 Mia Yellagonga 11 Mount Street Perth WA 6000 Australia

T: +61 8 9348 4000 www.woodside.com

Please direct all responses/queries to Woodside Feedback T: 1800 442 977 E: Feedback@woodside.com.au

22 February 2023

Dear Stakeholder

Woodside previously consulted you (correspondence dated 6 February 2023) on its submitted Environment Plans (EPs) to undertake the following activities in Commonwealth waters for the Scarborough development:

- seabed intervention and trunkline installation activities for the section of the Trunkline in Commonwealth waters under the Scarborough Seabed Intervention and Trunkline Installation EP (SITI EP):
- drilling and subsea tree installation activities for eight planned development wells and the potential for a further two additional contingency wells under the WA-61-L Scarborough Drilling and Completions EP (D&C EP);
- 4D baseline marine seismic survey (MSS) activities over the Scarborough and Jupiter field under the Scarborough 4D Baseline Marine Seismic Survey EP (Seismic EP); and
- seabed site surveys and installation of subsea production infrastructure under the Subsea Infrastructure Installation EP (Subsea EP).

This correspondence included updated Consultation Information Sheets, which are also available on our website, providing additional background on the proposed activities, including summaries of potential key impacts and risks, and associated management measures.

If you have feedback specific to each of the proposed activities described under the relevant EPs, please respond to Woodside at Feedback@woodside.com.au or 1800 442 977 by 8 March 2023 2023.

Kind regards,

Woodside Feedback



Woodside Energy Mia Yellagonga Karlak, 11 Mount Street Perth WA 6000 Australia T: 1800 442 977 E: feedback@woodside.com.au www.woodside.com

1.169 Email sent to WA Marine Science Institute (WAMSI) (22 February 2023)

Dear

Woodside is sending this email by way of a reminder that the consultation period is closing soon to provide feedback on Woodside's proposed activities for the Scarborough project. Please see our consultation information below and attached.

We would appreciate any feedback you may have by **5 March 2023** to support our development of the proposed Environment Plan.

Kind regards,

Woodside Feedback

1.170 Email sent to Commonwealth Scientific and Industrial Research Organisation (CSIRO) (22 February 2023)

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Woodside is sending this email by way of a reminder that the consultation period is closing soon to provide feedback on Woodside's proposed activities for the Scarborough project. Please see our consultation information below and attached.

We would appreciate any feedback you may have by **8 March 2023** to support our development of the proposed Environment Plan.

Kind regards,

1.171 Email sent to Commonwealth Fisheries Association (CFA), Australian Southern Bluefin Tuna Industry Association (ASBTIA), North West Slope and Trawl Fishery (4 Licence Holders), Western Deepwater Trawl Fishery (5 Licence Holders) (22 February 2023)

Dear Fishery Stakeholder

Woodside is sending this email by way of a reminder that the consultation period is closing soon to provide feedback on Woodside's proposed activities for the Scarborough project. Please see our consultation information below and attached.

We would appreciate any feedback you may have by **5 March 2023** to support our development of the proposed Environment Plan.

Kind regards,

1.172 Email sent to Recfishwest, Marine Tourism WA and WA Game Fishing Association (22 February 2023)

Dear Stakeholder

Woodside is sending this email by way of a reminder that the consultation period is closing soon to provide feedback on Woodside's proposed activities for the Scarborough project. Please see our consultation information below and attached.

We would appreciate any feedback you may have by **26 February 2023** to support our development of the proposed Environment Plan.

Kind regards,

1.173 Email sent to Chevron Australia and Osaka Gas Gorgon, Tokyo Gas Gorgon, JERA Gorgon via Chevron Australia (22 February 2023)

Dear

Woodside is sending this email by way of a reminder that the consultation period is closing soon to provide feedback on Woodside's proposed activities for the Scarborough project. Please see our consultation information below and attached.

We would appreciate any feedback you may have by **26 February 2023** to support our development of the proposed Environment Plan.

Kind regards,

1.174 Email sent to Western Gas, Exxon Mobil Australia Resources Company, Finder Energy, KUFPEC, Santos, OMV Australia / Sapura OMV Upstream (WA) (22 February 2023)

Dear Titleholder

Woodside is sending this email by way of a reminder that the consultation period is closing soon to provide feedback on Woodside's proposed activities for the Scarborough project. Please see our consultation information below and attached.

We would appreciate any feedback you may have by **26 February 2023** to support our development of the proposed Environment Plan.

Kind regards,

1.175 Email sent to National Energy Resource Australia (NERA) Collaborative Seismic Environment Plan Project (CSEP) (22 February 2023)

Dear

Woodside is sending this email by way of a reminder that the consultation period is closing soon to provide feedback on Woodside's proposed activities for the Scarborough project.

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Woodside wanted to bring to your attention that it has updated its consultation Information Sheet for the Scarborough SITI EP, D&C EP and Subsea EP, which provides additional background on the proposed activities, including summaries of potential key impacts and risks, and associated management measures. These are attached and also available on our website.

We would appreciate any feedback you may have by **8 March 2023** to support our development of the proposed Environment Plan.

Kind regards,

1.176 Email sent to Karratha CLG (22 February 2023)

Dear Karratha Community Liaison Group

Woodside is sending this email by way of a reminder that the consultation period is closing soon to provide feedback on Woodside's proposed activities for the Scarborough project. Please see our consultation information below and attached.

We would appreciate any feedback you may have by **26 February 2023** to support our development of the proposed Environment Plan.

Kind regards,

1.177 Email sent to Department of Climate Change, Energy, the Environment and Water (DCCEEW) / Department of Agriculture, Fisheries and Forestry (DAFF) (22 February 2023)

Dear Department of Climate Change, Energy, the Environment and Water (DCCEEW) and Department of Agriculture, Fisheries and Forestry (DAFF)

Woodside is sending this email by way of a reminder that the consultation period is closing soon to provide feedback on Woodside's proposed activities for the Scarborough project. Please see our consultation information below and attached.

We would appreciate any feedback you may have by **5 March 2023** to support our development of the proposed Environment Plan.

Kind regards,

1.178 Email sent to Exmouth CRG (22 February 2023)

Dear Exmouth Community Reference Group

Woodside is sending this email by way of a reminder that the consultation period is closing soon to provide feedback on Woodside's proposed activities for the Scarborough project. Please see our consultation information below and attached.

We would appreciate any feedback you may have by **3 March 2023** to support our development of the proposed Environment Plan.

Kind regards,

1.179 Email sent to BP Developments Australia, Carnarvon Energy, PE Wheatstone, Kyushu Electric Wheatstone, Eni Australia Ltd, Fugro Exploration, JX Nippon O&G Expln (Australia) (22 February 2023)

Dear Titleholder

Woodside is sending this email by way of a reminder that the consultation period is closing soon to provide feedback on Woodside's proposed activities for the Scarborough project. Please see our consultation information below and attached.

We would appreciate any feedback you may have by **26 February 2023** to support our development of the proposed Environment Plan.

Kind regards.

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1.180 Email sent to Lightmark Enterprises (22 February 2023)

Dear Titleholder

Woodside is sending this email by way of a reminder that the consultation period is closing soon to provide feedback on Woodside's proposed activities for the Scarborough project. Please see our consultation information below and attached.

We would appreciate any feedback you may have by **26 February 2023** to support our development of the proposed Environment Plan. Kind regards,

Woodside Feedback

1.181 Email sent to Department of Planning, Lands and Heritage (DPLH) (22 February 2023)

Dear Department of Planning, Lands and Heritage (DPLH)

Woodside is sending this email by way of a reminder that the consultation period is closing soon to provide feedback on Woodside's proposed activities for the Scarborough project. Please see our consultation information below and attached.

We would appreciate any feedback you may have by **3 March 2023** to support our development of the proposed Environment Plan.

Kind regards,

1.182 Email sent to Western Australian Museum (WAM) (22 February 2023)

Dear Western Australian Museum

Woodside is sending this email by way of a reminder that the consultation period is closing soon to provide feedback on Woodside's proposed activities for the Scarborough project. Please see our consultation information below and attached.

We would appreciate any feedback you may have by **3 March 2023** to support our development of the proposed Environment Plan.

Kind regards,

1.183 Email sent to Western Tuna and Billfish Fishery (4 Licence Holders) (22 February 2023)

Dear Fishery Stakeholder

Woodside is sending this email by way of a reminder that the consultation period is closing soon to provide feedback on Woodside's proposed activities for the Scarborough project. Please see our consultation information below and attached.

We would appreciate any feedback you may have by **5 March 2023** to support our development of the proposed Environment Plan.

Kind regards,

1.184 Email sent to Pilbara Trawl Fishery (7 Licence Holders) and Pilbara Trap Fishery (6 Licence Holders) (22 February 2023)

Dear Fishery Stakeholder

Woodside is sending this email by way of a reminder that the consultation period is closing soon to provide feedback on Woodside's proposed activities for the Scarborough project. Please see our consultation information below and attached.

We would appreciate any feedback you may have by **5 March 2023** to support our development of the proposed Environment Plan.

Kind regards,

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1.185 Email sent to Karratha Recreational Marine Users (9 Licence Holders) (22 February 2023)

Dear Stakeholder

Woodside is sending this email by way of a reminder that the consultation period is closing soon to provide feedback on Woodside's proposed activities for the Scarborough project. Please see our consultation information below and attached.

We would appreciate any feedback you may have by **5 March 2023** to support our development of the proposed Environment Plan.

Kind regards,

1.186 Letter sent to Nickol Bay Prawn Managed Fishery (14 Licence Holders), Western Australian Sea Cucumber Managed Fishery (6 Licence Holders), Gascoyne Demersal Scalefish Fishery (53 Licence Holders), Specimen Shell Managed Fishery (29 Licence Holders), Onslow Prawn Managed Fishery (30 Licence Holders) (22 February 2023)

Please direct all responses/queries to: WoodsIde Feedback T: 1800 442 977 E: Feedback@woodside.com.au

22 February 2023



Woodside Energy Group Ltd
ACN 004 898 962

Mia Yellagonga 11 Mount Street Perth WA 6000 Australia

T: +61 8 9348 4000 www.woodside.com

Dear Fishery Stakeholder

Woodside previously consulted you (correspondence dated 6 February 2023) on its submitted Environment Plans (EPs) to undertake the following activities in Commonwealth waters for the Scarborough development:

- seabed intervention and trunkline installation activities for the section of the Trunkline in Commonwealth waters under the Scarborough Seabed Intervention and Trunkline Installation EP (SITI EP); and
- seabed site surveys and installation of subsea production infrastructure under the Subsea Infrastructure Installation EP (Subsea EP).

This correspondence included updated Consultation Information Sheets, which are also available on our website, providing additional background on the proposed activities, including summaries of potential key impacts and risks, and associated management measures.

If you have feedback specific to each of the proposed activities described under the relevant EPs, please respond to Woodside at Feedback@woodside.com.au or 1800 442 977 by 8 March 2023.

Kind regards,

Woodside Feedback



Woodside Energy Mia Yellagonga Karlak, 11 Mount Street Perth WA 6000 Australia T: 1800 442 977
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1.187 Letter sent to Pilbara/Kimberley Recreational Marine Users (95 Licence Holders) (22 February 2023)

Please direct all responses/queries to: Woodside Feedback T: 1800 442 977

22 February 2023



T: +61 8 9348 4000 www.woodside.com

Australia

Dear Stakeholder

Woodside previously consulted you (correspondence dated 6 February 2023) on its submitted Environment Plans (EPs) to undertake the following activities in Commonwealth waters for the Scarborough development:

- seabed intervention and trunkline installation activities for the section of the Trunkline in Commonwealth waters under the Scarborough Seabed Intervention and Trunkline Installation EP (SITI EP); and
- seabed site surveys and installation of subsea production infrastructure under the Subsea Infrastructure Installation EP (Subsea EP).

This correspondence included updated Consultation Information Sheets, which are also available on our website, providing additional background on the proposed activities, including summaries of potential key impacts and risks, and associated management measures.

If you have feedback specific to each of the proposed activities described under the relevant EPs, please respond to Woodside at Feedback@woodside.com.au or 1800 442 977 by 8 March 2023.

Kind regards,

Woodside Feedback



Woodside Energy Mia Yellagonga Karlak, 11 Mount Street Perth WA 6000 Australia T: 1800 442 977
E: feedback@woodside.com.au
www.woodside.com
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1.188 Email to 350 Australia (22 February 2023)

Dear

Woodside is sending this email by way of a reminder that the consultation period is closing soon to provide feedback on Woodside's Subsea Infrastructure Installation EP (Subsea EP). Please see our consultation information below and attached.

We would appreciate any feedback you may have by **8 March 2023** to support our development of the proposed Environment Plan. Kind regards,

1.189 Email to Australian Marine Conservation Society (AMCS) (22 February 2023)

Dear AMCS

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Woodside is sending this email by way of a reminder that the consultation period is closing soon to provide feedback on Woodside's Subsea Infrastructure Installation EP (Subsea EP). Please see our consultation information below and attached.

We would appreciate any feedback you may have by **8 March 2023** to support our development of the proposed Environment Plan.

Kind regards,

1.190 Email to Conservation Council of Western Australia (CCWA) (22 February 2023)

Dear CCWA

Woodside is sending this email by way of a reminder that the consultation period is closing soon to provide feedback on Woodside's Subsea Infrastructure Installation EP (Subsea EP). Please see our consultation information below and attached.

We would appreciate any feedback you may have by **8 March 2023** to support our development of the proposed Environment Plan.

Kind regards,

1.191 Email to Sea Shepherd Australia (SSA) (22 February 2023)

Dear Sea Shepherd Australia

Woodside is sending this email by way of a reminder that the consultation period is closing soon to provide feedback on Woodside's Subsea Infrastructure Installation EP (Subsea EP). Please see our consultation information below and attached.

We would appreciate any feedback you may have by **8 March 2023** to support our development of the proposed Environment Plan.

Kind regards,

1.192 Email to The Wilderness Society (TWS) (22 February 2023)

Dear

Woodside is sending this email by way of a reminder that the consultation period is closing soon to provide feedback on Woodside's Subsea Infrastructure Installation EP (Subsea EP). Please see our consultation information below and attached.

We would appreciate any feedback you may have by **8 March 2023** to support our development of the proposed Environment Plan.

Kind regards,

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1.193 Letter sent to JX Nippon Oil & Gas Exploration (23 February 2023)

Please direct all responses/queries Woodwide Fwedback. T: 1800 442 Personale responses

23 February 2023



Woodwide Energy Group Ltd

ACN 004 000 952

Mie Yellegonge 11 Mount Street Penth WA 6000

Australia

T: +61 8 9348 4000

Dear Titleholder

Woodside has submitted Environment Plans (EPs) to undertake the following activities in Commonwealth waters for the Scarborough development:

- seabed intervention and trunkline installation activities for the section of the Trunkline in Commonwealth waters under the Scarborough Seabed Intervention and Trunkline Installation EP (SITLEP):
- 4D baseline marine seismic survey (MSS) activities over the Scarborough and Jupiter field under the Scarborough 4D Baseline Marine Seismic Survey EP (Selamic EP); and
- seabed site surveys and installation of subsea production infrastructure under the Subsea Infrastructure Installation EP (Subsea EP).

Updated consultation Information Sheets are attached, which provide additional background on the proposed activities, including summaries of potential key impacts and risks, and associated management measures. These are also available on our website.

As we are inviting consultation with you on each of the EPs above, for ease of reference, we have attached the information in this one email. In an effort to simplify feedback, we have also included a feedback template (Appendix A) which you may wish to use to provide your feedback specific to the proposed EPs.

Woodside has previously submitted Revision 1 of the SITI EP to NOPSEMA which has been available on the NOPSEMA website since January 2022

(https://info.nopsema.gov.au/environment_plans/575/show_public). Revision 0 of the Selamic EP has been available on the NOPSEMA website since 18 October 2021 (https://info.nopsema.gov.au/environment_plans/559/show_public).

Woodside is preparing to submit a further revision of the SITI EP and Seismic EP to NOPSEMA with recent changes. We confirm the activities, location and duration described in these revisions remain the same, with no material changes. The Subsea EP has not yet been submitted to NOPSEMA.

The SITI EP and Subsea EP fall under the primary environmental approval of the <u>Scarborough Offshore Project Proposal</u> (OPP). The OPP includes a detailed description of activities, an assessment of the potential impacts and risks and includes management measures to demonstrate that the potential impacts and risks will be of an acceptable level. It was accepted by NOPSEMA in March 2020 after an extensive public consultation process.

More information on the Scarborough Project can be found on our website.

If you have feedback specific to each of the proposed activities described under the relevant EPs, please respond to Woodside at Feedback@woodside.com.au or 1800 442 977 by 8 March 2023.

Activity:

	SITI EP	Selsmic EP	Subsea EP
Summary:	trunkline installation activities in Commonwealth waters	the Scarborough and Jupiter fields. The proposed survey will be	infrastructure. Activities include
	associated with the	conducted over areas where	visual pre- and post-installation

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	installation of a carbon steel pipeline (Trunkline) that runs approximately 430 km from the from the proposed offshore Scarborough Floating Production Unit (FPU) to the existing onshore Pluto LNG facility. This EP covers activities for the approximately 400 km section of the Trunkline in Commonwealth waters. A separate EP covers activities in State waters.	seismic data has previously been acquired. The objective for the proposed activity is to acquire a new 3D seismic survey data that will provide the baseline for future 'time lapse' reservoir surveillance (or technically termed 4D baseline survey).	surveys, and installation of flowlines, umbilicals and risers and ancillary infrastructure, required for the flow and control- hydrocarbons and produced wait to the Scarborough Floating Production Unit (FPU). Mooring legs and suction piles walso be installed and a gravimentry survey is also planned.
Location:	Activities run from the Scarborough FPU in WA-61- L in Commonwealth waters, about 374 km west-northwest of Dampier, to the State waters boundary at the northern extent of the Dampier Archipelago.	The seismic survey will cover the Scarborough and Jupiter fields within Commonwealth waters, located in the Exmouth Plateau, approximately 214 km north west of Exmouth, Western Australia.	Activities are logated in permit Areas WA-61-L and WA-62-L, around 374 km west-northwest of Dampier, Western Australia.
Approx. Water Depth (m):	~ 32 m – 1400 m	~ 800 m = 1,150 m	~ 900 m — 1000 m
Earliest commencement date:	Seabed Intervention activities: Mid 2023 pending approvals, vessel availability and weather constraints. Trunkline Installation activities: Q4 2023 pending successful completion approvals, vessel availability and weather constraints.	Activities planned to commence in H1 2023 pending approvals, vessel availability and weather constraints.	Activities planned to commence H2 2023 (and estimated to be completed in 18 months with activities occurring in multiple campaigns).
Estimated duration:	~24 months across multiple campaigns	~55 = 70 days	~18 months (cumulative) for the survey and installation activities
Distance from Operational Area to nearest town	The closest Commonwealth section of the trunkline on the State waters boundary is~32 km north-west of Dampier.	~214 km north-west of Exmouth.	~ 244 km north-northwest of Exmouth, ~ 374 km west- northwest of Dampier.
Distance from Operational Area to nearest marine park	The trunkline corridor runs through the Montebello Marine Park Multiple Use Zone (Cwth), close to the northern boundary Offshore borrow ground located to the north of the Dampier Marine Park Habitat Protection Zone	~46 km north of Gascoyne Marine Park Multiple Use Zone	~ 77 km north of the Gascoyne Marine Park (Cwlth) ~ 201 km north-west of Montebello Marine Park (Cwlth) ~ 180 km north-northwest of Ningaloo Marine Park (Cwlth)

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Operational Area and Exclusion Zones	Temporary 500 m exclusion zones will apply around applicable seabed intervention and the Trunkline installation vessels. The Operational Areas are: • Trunkline Project Area: • Trunkline Project Area: The proposed trunkline from around KP 32 (Commonwealth – State Boundary) to KP 435 and 1.5 km either side of the proposed trunkline centreline. • Offshore Borrow Ground Project Area: Offshore Borrow Ground located in Commonwealth waters.	Three nautical mile radius safe navigation area around the seismic vessel, streamers and tail buoys during seismic operations Marine users are requested to avoid this area during the survey to ensure the safety of the seismic vessel and third-party vessels Refer to Table 3 of the attached Seismic EP Consultation Information Sheet for detailed survey location points A purpose-built seismic	The Operational Area for activities includes a radius of: • 1,000 m around location of the outermost concrete pads. • 1,500 m around location of subsea infrastructure. • 2,000 m around future location of FPU. • Temporary 500 m exclusion zone around vessels to manage vessel movements • An interactive map showing the location of the proposed activities will be available on the Woodside website and will be updated throughout the proposed activities
Vessels:	seased intervention: Trailing suction hopper dredge Offshore construction vessel Rock Installation Vessel Survey vessels Support vessels Fuel bunkering vessels Trunkline Installation: Pipelay Vessel multijoint operation Shallow Water Lay Barge Anchor handling vessel/tug Pipe supply vessels Offshore construction vessel Survey vessels Fuel bunkering vessels	A porpose-dult seismic vessel One support vessel A potential chase vessel, and An additional spotter vessel (May to June)	Heavy construction vessels Heavy lift vessels Derrick lay vessel Reel-lay vessels Survey vessels Surport vessels

Feedback

If you have any issues or concerns with these activities, or any other issues relevant to this location, please respond to Woodside at:

Feedback@woodside.com.au or 1800 442 977.

Your feedback and our response will be included in our Environment Plan which will be submitted to submitted to the National Offshore Petroleum Safety and Environmental Management Authority (NOPSEMA) for acceptance in accordance with the Offshore Petroleum and Greenhouse Gas Storage (Environment) Regulations 2009 (Cib.).

Please let us know if your feedback for any of the activities proposed under an Environment Plan is sensitive and we will make this known to NOPSEMA upon submission of the Environment Plan to ensure this information remains confidential to NOPSEMA.

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Regards, Woodside	Feedback		
Woodside Energy	Perth WA 6000 Australia	T: 1800 442 977 E: feedback@woodside.co www.woodside.com f y in @ @	om.au
FEEDBACK	SITI EP	Selamic EP	Subses EP

1.194 Email sent to JX Nippon via ENEOS (23 February 2023)

		-
\sim	Afternoon	
$(\neg \alpha \alpha \alpha)$	AHEIDOOD	

My name is _____, and I work with Woodside Energy's Corporate Affairs team.

Woodside has submitted Environmental Plans to undertake activities in Commonwealth waters for the Scarborough Development. A part of this involves receiving feedback from title and licence holders. ENEOS (formerly JX Nippon) is one of the aforementioned titleholders.

I have attached the relevant documents, and would appreciate if you could either provide us with feedback within the nominated window, or forward on to the correct person and include Feedback@woodside.com.au and my email, @woodside.com.au in the correspondence.

Please contact me on	or reply	to th	nis email	l if	you requ	ire any c	larii	ficati	on
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Kind Regards,

1.196 Email sent to Ngarluma Aboriginal Corporation (NAC) (24 February 2023)

Good morning

I mentioned I would be sharing more information when we met on Friday 17 February, to discuss the Environmental Plan (EP) information shared with you to date for Scarborough and Nganghurra RTM. This is the email with further information for NAC to consider if they have any interests in the EMBA (Environment that may be affected) relative to the attached information sheets.

It would be greatly appreciated if you could please acknowledge receipt and confirm the opportunity to meet with the NAC board when they are next due to meet on 29 or 30 March. We welcome the opportunity to spend a whole day with the board on a different day if that works.

This email provides information on Woodside's decommissioning and drilling activities that we are seeking to consult with NAC about.

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With the exception of removing the Nganhurra RTM and the Scarborough project, for which Woodside is seeking NAC's feedback as soon as possible, Woodside is seeking NAC's feedback on these decommissioning and drilling activities by **17 March** 2023. The plain English summary of each of these activities is attached, and I have provided a link to the more detailed consultation information sheets below. These activities are:

Decommissioning Activities:

- Removal of the Nganhurra Riser Turret Mooring (RTM). Information about the RTM was previously
 emailed on 20 January. For ease of reference, the summary information is attached and the consultation
 information sheet for the RTM can be found at the link below.
 - o <u>consultation-information-sheet---nganhurra-operations-cessation-environment-plan-revision.pdf</u> (woodside.com)
- Stybarrow. This involves two work activities that are subject to separate environment plans; plug and abandonment (P&A) of the wells and decommissioning the infrastructure.
 - consultation-information-sheet---stybarrow-plug-and-abandonment-environment-plan.pdf (woodside.com)
 - Consultation Information Sheet Stybarrow Decommissioning Environment Plans (woodside.com)
- Griffin decommissioning.
 - consultation-information-sheet---griffin-decommissioning-environment-plans.pdf (woodside.com)

Drilling Activities:

- TPA03 Well Intervention.
 - o Consultation Information Sheet TPA03 Well Intervention Environment Plan (woodside.com)
- WA-34-L Pyxis Drilling and Subsea Installation.
 - Consultation Information Sheet WA-34-L Pyxis Drilling and Subsea Installation Environment Plan (woodside.com)
- Julimar Appraisal Drilling.
 - o Consultation Information Sheet Julimar Appraisal Drilling and Survey Environment Plan (woodside.com)

In providing this information and requests for feedback, I acknowledge that we are working towards presenting to the NAC board at their next board meeting in March. Woodside would be most grateful for the opportunity to meet with NAC, at NAC's earliest convenience, and at a location suitable to NAC. Woodside would also be pleased to provide the resources necessary to hold this meeting and we look forward to receiving a budget for consideration. If there is anything else, we can do at this time to facilitate consultation about these planned work activities please let me know.

Thank you, growing for consideration of these matters and work to progress these important consultation	consideration of these matters and work to progress these important consultations
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Please feel free to contact me on the details below if you require further information or assistance.

Regards

1.197 Email sent to Wirrawandi Aboriginal Corporate (WAC) (24 February 2023)

Good morning

I hope your Friday is going well.

I mentioned I would be sharing more information when we met on Tuesday 21 February, to discuss the Environmental Plan (EP) information shared with you to date for Scarborough and Nganghurra RTM. This is the email with further information for Wirrawandi to consider if they have any interests in the Environment that may be affected (EMBA) relative to the attached information sheets.

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It would be greatly appreciated if you could please acknowledge receipt and confirm the opportunity to meet with the Wirrawandi board when they are next due to meet in Perth in March.

This email provides information on Woodside's decommissioning and drilling activities that we are seeking to consult with Wirrawandi about.

With the exception of removing the Nganhurra RTM and the Scarborough project, for which Woodside is seeking Wirrawandi's feedback as soon as possible, Woodside is seeking Wirrawandi's feedback on these decommissioning and drilling activities by **17 March** 2023. The plain English summary of each of these activities is attached, and I have provided a link to the more detailed consultation information sheets below. These activities are:

Decommissioning Activities:

- Removal of the Nganhurra Riser Turret Mooring (RTM). Information about the RTM was previously emailed on 18 January. For ease of reference, the summary information is attached and the consultation information sheet for the RTM can be found at the link below.
 - consultation-information-sheet---nganhurra-operations-cessation-environment-plan-revision.pdf (woodside.com)
- Stybarrow. This involves two work activities that are subject to separate environment plans; plug and abandonment (P&A) of the wells and decommissioning the infrastructure.
 - consultation-information-sheet---stybarrow-plug-and-abandonment-environment-plan.pdf (woodside.com)
 - Consultation Information Sheet Stybarrow Decommissioning Environment Plans (woodside.com)
- Griffin decommissioning.
 - consultation-information-sheet---griffin-decommissioning-environment-plans.pdf (woodside.com)

Drilling Activities:

- TPA03 Well Intervention.
 - o Consultation Information Sheet TPA03 Well Intervention Environment Plan (woodside.com)
- WA-34-L Pyxis Drilling and Subsea Installation.
 - Consultation Information Sheet WA-34-L Pyxis Drilling and Subsea Installation Environment Plan (woodside.com)
- Julimar Appraisal Drilling.
 - Consultation Information Sheet Julimar Appraisal Drilling and Survey Environment Plan (woodside.com)

In providing this information and requests for feedback, I acknowledge that we are working towards presenting to the Wirrawandi board at their next board meeting in March. Woodside would be most grateful for the opportunity to meet at Wirrawandi's earliest convenience, and at a location suitable to Wirrawandi. Woodside would also be pleased to provide the resources necessary to hold this meeting and we look forward to receiving a budget for consideration. If there is anything else, we can do at this time to facilitate consultation about these planned work activities please let me know.

Thank you, for consideration of these matters and work to progress these important consultations.

Please feel free to contact me on the details below if you require further information or assistance.

Kind regards

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1.198	Email sent to	Yindjibarndi	Aboriginal	Corporation	(24 February	2023)
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Hello

I understand you last spoke with a compared on 25 January regarding the Environmental Plan (EP) information shared with YAC for the Scarborough project activity and Nganghurra RTM.

This email provides further information on Woodside's decommissioning and drilling activities that we are seeking to understand if YAC has any interests in the Environment that may be affected (EMBA) relative to the attached information sheets and if YAC would like us to consult further on these EPs.

With the exception of removing the Nganhurra RTM and the Scarborough project, for which I understand YAC has verbally advised they have no interests, Woodside is also seeking YAC's feedback on these decommissioning and drilling activities by **17 March 2023**.

The plain English summary of each of these activities is attached, and I have provided a link to the more detailed consultation information sheets below. These activities are:

Decommissioning Activities:

- Stybarrow. This involves two work activities that are subject to separate environment plans; plug and abandonment (P&A) of the wells and decommissioning the infrastructure.
 - o <u>consultation-information-sheet---stybarrow-plug-and-abandonment-environment-plan.pdf</u> (woodside.<u>com)</u>
 - Consultation Information Sheet Stybarrow Decommissioning Environment Plans (woodside.com)
- Griffin decommissioning.
 - consultation-information-sheet---griffin-decommissioning-environment-plans.pdf (woodside.com)

Drilling Activities:

- TPA03 Well Intervention.
 - o Consultation Information Sheet TPA03 Well Intervention Environment Plan (woodside.com)
- WA-34-L Pyxis Drilling and Subsea Installation.
 - Consultation Information Sheet WA-34-L Pyxis Drilling and Subsea Installation Environment Plan (woodside.com)
- Julimar Appraisal Drilling.
 - Consultation Information Sheet Julimar Appraisal Drilling and Survey Environment Plan (woodside.com)

Thank you for your time in considering these matters. We look forward to hearing from you.

Please feel free to contact me on the details below if you require further information or assistance.

Kind regards

1.199 Email sent to Robe River Kuruma Aboriginal Corporation (RRKAC) – 24 February 2023)

Hello

I understand you met with a second on 31 January regarding the Environmental Plan (EP) information shared with Robe River Kuruma Aboriginal Corporation (RRKAC) for the Scarborough project activity and

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Nganghurra RTM and that this information was to be presented at the RRKAC Board meeting this week 21-22 February. Advised we have a number of EPs we will reach out to RRKAC on.

This email provides further information on Woodside's decommissioning and drilling activities that we are seeking to understand if RRKAC has any interests in the Environment that may be affected (EMBA) relative to the attached information sheets and if RRKAC would like us to consult further on these EPs.

With the exception of removing the Nganhurra RTM and the Scarborough project, for which Woodside would appreciate feedback on as soon as possible, Woodside is also seeking RRKAC's feedback on these decommissioning and drilling activities by **17 March 2023**.

The plain English summary of each of these activities is attached, and I have provided a link to the more detailed consultation information sheets below. These activities are:

Decommissioning Activities:

- Stybarrow. This involves two work activities that are subject to separate environment plans; plug and abandonment (P&A) of the wells and decommissioning the infrastructure.
 - consultation-information-sheet---stybarrow-plug-and-abandonment-environment-plan.pdf (woodside.com)
 - Consultation Information Sheet Stybarrow Decommissioning Environment Plans (woodside.com)
- Griffin decommissioning.
 - consultation-information-sheet---griffin-decommissioning-environment-plans.pdf (woodside.com)

Drilling Activities:

- TPA03 Well Intervention.
 - o Consultation Information Sheet TPA03 Well Intervention Environment Plan (woodside.com)
- WA-34-L Pyxis Drilling and Subsea Installation.
 - Consultation Information Sheet WA-34-L Pyxis Drilling and Subsea Installation Environment Plan (woodside.com)
- Julimar Appraisal Drilling.
 - Consultation Information Sheet Julimar Appraisal Drilling and Survey Environment Plan (woodside.com)

Thank you for your time in considering these matters. We look forward to hearing from you.

Please feel free to contact me on the details below if you require further information or assistance.

1.201 Email sent to AHO (28 February 2023)

Dear AHO,

As referenced below in our email to you on 27/01, the Shipping Lane figure for each EP's as relevant to their Petroleum Activities Program and associated Operational Area are provided attached. A separate figure showing the Environment that May Be Affected (EMBA) for each activity has also been attached for reference.

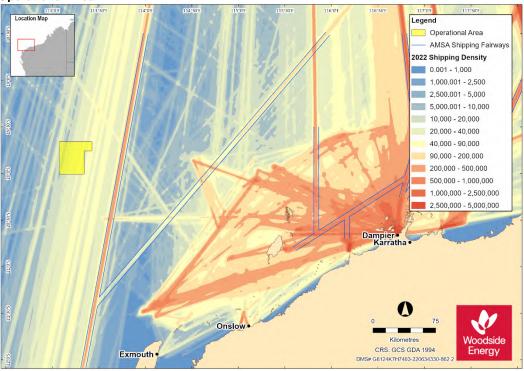
Please let us know should you have any questions regarding the attached or require further information relating to any of the Scarborough activities.

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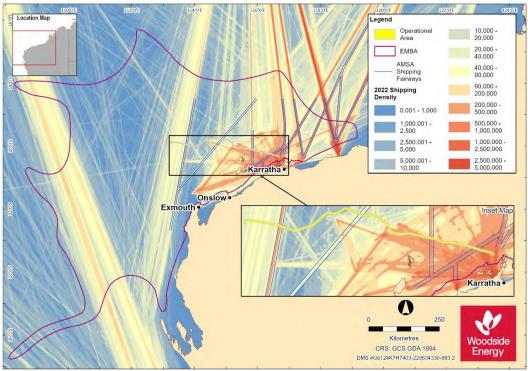
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Kind Regards,

Operational Area



EMBA



Woodside Feedback

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1.203 Email sent to AMSA - Marine Safety (8 March 2023)

Dear AMSA,

The Scarborough FPU shall be located in the Scarborough Field Petroleum Activity Area (PAA) in approximately 952 m of water (refer to coordinates in below table).

Location and Water Depth of Scarborough FPU

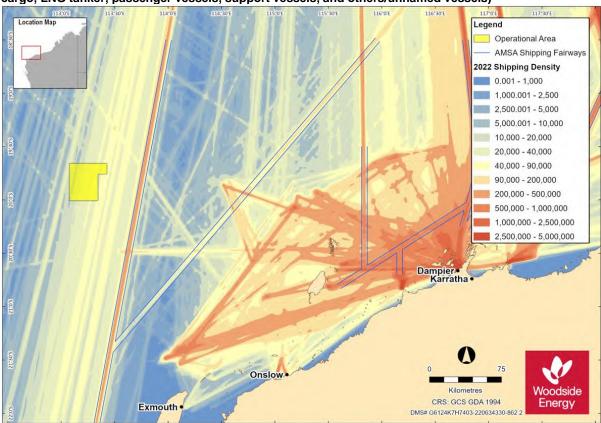
Water Depth (m below MSL) Northing/ Latitude Easting/ Longitude Ref. Grid					
952 7,792,300 m N 106.450 m E MGA94 Grid 50K, 117°E					
Cartesian: 19°55'33.7" South 113°14'29.8" East					

The FPU comprises a semi-submersible hull and integrated topsides with the following key components;

- Semi-submersible hull with integrated storage tanks, ballast and bilge systems;
- Risers, umbilicals and mooring system (20 mooring chains connected to suction piles on the seabed);
 and
- An integrated topsides supporting gas processing systems and equipment, flare systems, utilities, cranes, laydown and storage areas, Utility Building (UB), Living Quarters (LQ) and helideck.

AMSA has introduced a network of marine fairways across the NWMR off WA to reduce the risk of vessel collisions with offshore infrastructure. It is noted that none of these fairways intersect with the PAA; the nearest fairway is approximately 38 km east of the PAA (figure below). Vessel tracking data suggest the majority of shipping is concentrated to the east of the PAA.

Vessel density map for the PAA, derived from AMSA satellite tracking system data (vessels include cargo, LNG tanker, passenger vessels, support vessels, and others/unnamed vessels)



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The environment that may be affected (EMBA) is the largest spatial extent where the Petroleum Activities Program could potentially have an environmental consequence (direct or indirect impact). The broadest extent of the EMBA takes into consideration planned and unplanned activities, and for this Environment Plan (EP) is determined by a highly unlikely release of marine diesel to the environment as a result of vessel collision. The EMBA does not represent the extent of predicted impact of the highly unlikely marine diesel release. Rather, the EMBA represents the merged area of many possible paths a highly unlikely hydrocarbon release could travel depending on the weather and ocean conditions at the time of the release. This means in the highly unlikely event a hydrocarbon release does occur, the entire EMBA will not be affected and the specific and minimal part of the EMBA that is affected will only be known at the time of the release.

In addition to the above responses, please find attached an updated Shipping Density map for the Scarborough Seismic EP showing the correct EMBA profile. Please disregard the previous version of this map provided on 28 February 2023.

Please let us know should you have any questions regarding the above or require further information relating to any of the Scarborough activities.

Kind Regards,

Woodside Feedback



Woodside Energy Mia Yellagonga Karlak, 11 Mount Street Perth WA 6000 Australia

T: 1800 442 977

E: feedback@woodside.com.au

W: www.woodside.com



1.204 Email sent to JX Nippon Oil & Gas Exploration (10 March 2023)

Dear

Woodside is sending this email by way of a reminder that the consultation period has closed to provide feedback on the following proposed activities in Commonwealth waters:

- seabed intervention and trunkline installation activities for the section of the Trunkline in Commonwealth waters under the Scarborough Seabed Intervention and Trunkline Installation EP (SITI EP).
- 4D baseline marine seismic survey (MSS) activities over the Scarborough and Jupiter field under the Scarborough 4D Baseline Marine Seismic Survey EP (Seismic EP).
- seabed site surveys and installation of subsea production infrastructure under the Subsea Infrastructure Installation EP (Subsea EP).

The feedback period is also closing soon for the following proposed activities in Commonwealth waters:

- activities on the TPA03 production well to remediate a down-hole valve and continue production from the lower reservoir, under the TPA03 Well Intervention Environment Plan (TPA03 EP);
- geotechnical and geophysical surveys, drilling and appraisal of the Julimar South-1 well (previously called JULA-P) and, plug and abandonment of Julimar South-1, if required, under the Julimar Drilling and Surveys Environment Plan (Julimar EP).
- drilling and subsea infrastructure installation activities for one well (PLA08) and contingent well intervention activities for current production wells, under the WA-34-L Pyxis drilling and Subsea Installation Environment Plan Revision (PLA08 EP).
- subsea decommissioning activities for the Griffin field under the Griffin Decommissioning and Field Management EP, Griffin Gas Export Pipeline EP and Griffin Field Deviation EP.
- subsea decommissioning activities for the Stybarrow field under the Stybarrow Plug and Production EP, Stybarrow Decommissioning and Field Management EP and Stybarrow Field Deviation EP.

Please find the attached Consultation Information Sheets relating to the above proposed environment plans (EPs). The Consultation Information Sheets provide background on the proposed activities, including maps,

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summaries of potential key impacts and risks, and associated management measures. These are also available on our website. You can also subscribe to receive updates on our consultation activities by subscribing here.

Should JX have feedback on the proposed activities, please let us know. Feedback received after the feedback dates (see emails attached) will continue to be assessed and responded to, as required, through the life of the relevant EP.

As we have invited consultation with you on each of the EPs above, for ease of reference, we have attached the information in this one email. In an effort to simplify feedback, we have also included a feedback template (Appendix A) which you may wish to use to provide your feedback specific to the proposed EPs.

Feedback:

If you have any issues or concerns with these activities, or any other issues relevant to these locations, please respond to Woodside at:

Feedback@woodside.com.au or 1800 442 977.

Your feedback and our response will be included in our Environment Plans which will be submitted to the National Offshore Petroleum Safety and Environmental Management Authority (NOPSEMA) for acceptance in accordance with the *Offshore Petroleum and Greenhouse Gas Storage (Environment) Regulations 2009* (Cth).

Please let us know if your feedback for any of the activities proposed under an Environment Plan is sensitive and we will make this known to NOPSEMA upon submission of the Environment Plan to ensure this information remains confidential to NOPSEMA.

Woodside Feedback

1.205 Email sent to INPEX (13 March 2023)

Dear Titleholder,

Further to the below, please be advised that Woodside plans to undertake seabed site surveys and installation of subsea production infrastructure under the Subsea Infrastructure Installation EP (**Subsea EP**).

An updated consultation Information Sheet is attached, which provides additional background on the proposed activities, including summaries of potential key impacts and risks, and associated management measures. These are also available on our website.

If you have feedback specific to the proposed activities described under the proposed EP, please respond to Woodside at Feedback@woodside.com.au or 1800 442 977 by **12 March 2023**.

Activity:

	Subsea EP
Summary:	Seabed site surveys and installation of subsea production infrastructure. Activities include visual pre- and post-installation surveys, and installation of flowlines, umbilicals and risers and ancillary infrastructure, required for the flow and control of hydrocarbons and produced water to the Scarborough Floating Production Unit (FPU). Mooring legs and suction piles will also be installed and a gravimentry survey is also planned.
Location:	Activities are located in permit Areas WA-61-L and WA-62-L, around 374 km west-northwest of Dampier, Western Australia.
Approx. Water Depth (m):	~ 900 m – 1000 m

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Earliest commencement date:	Activities planned to commence in H2 2023 (and estimated to be completed in 18 months with activities occurring in multiple campaigns).
Estimated duration:	~18 months (cumulative) for the survey and installation activities
Distance from Operational Area to nearest town	~ 244 km north-northwest of Exmouth, ~ 374 km west-northwest of Dampier.
Distance from Operational Area to nearest marine park	~ 77 km north of the Gascoyne Marine Park (Cwlth) ~ 201 km north-west of Montebello Marine Park (Cwlth) ~ 180 km north-northwest of Ningaloo Marine Park (Cwlth)
Operational Area and Exclusion Zones	The Operational Area for activities includes a radius of: 1,000 m around location of the outermost concrete pads. 1,500 m around location of subsea infrastructure. 2,000 m around future location of FPU. Temporary 500 m exclusion zone around vessels to manage vessel movements An interactive map showing the location of the proposed activities will be available on the Woodside website and will be updated throughout the proposed activities
Vessels:	 Light construction vessels Heavy construction vessels Heavy lift vessels Derrick lay vessel Reel-lay vessels Survey vessels Support vessels

Feedback:

If you have any issues or concerns with these activities, or any other issues relevant to this location, please respond to Woodside at:

Feedback@woodside.com.au or 1800 442 977.

Your feedback and our response will be included in our Environment Plan which will be submitted to the National Offshore Petroleum Safety and Environmental Management Authority (NOPSEMA) for acceptance in accordance with the Offshore Petroleum and Greenhouse Gas Storage (Environment) Regulations 2009 (Cth).

Please let us know if your feedback for any of the activities proposed under an Environment Plan is sensitive and we will make this known to NOPSEMA upon submission of the Environment Plan to ensure this information remains confidential to NOPSEMA.

Please provide your views by 12 March 2023.

Regards,

1.206 Email sent to DoD (13 March 2023)

Good afternoon

Thank you for the Department of Defence's feedback regarding the Scarborough SITI EP, D&C EP, Seismic EP and Subsea EPs, including providing a copy of its restricted airspace and Defence Training Areas off the WA Coast.

In line with Woodside's previous response to the Department of Defence's feedback in relation to the proposed activities, Woodside re-confirms that it notes the Department's advice on the location of the Operational Area and the presence of the North West Exercise Area (NWXA) and restricted airspace.

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We also note your advice with respect to the location, identification, removal, or damage to equipment from unexploded ordinances (UXOs).

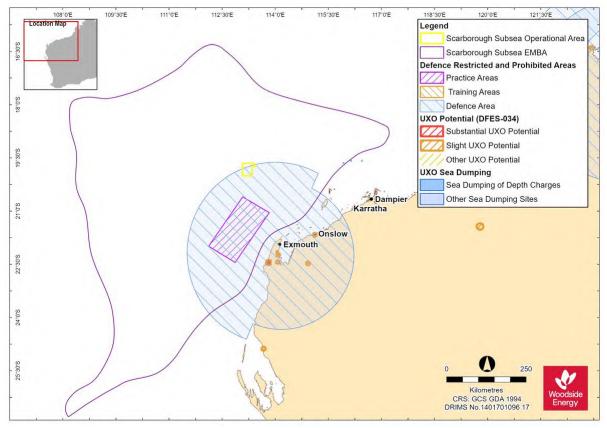
Please accept this as confirmation that:

- Woodside will notify the Department of Defence at least five weeks prior to the commencement of activities.
- Woodside notes the requirement and contact details provided by the Department of Defence to engage
 with Airservices Australia if the restricted airspace is activated. Woodside will confirm restricted air space
 status with the Department of Defence as part of its commencement of activity notification.
- AHO has already been engaged for this activity and is included in our activity notification protocols. At its request, AHO will be notified four weeks prior to the start of activities.

The Defence figures for each of the proposed EPs as relevant to their Petroleum Activities Program and associated Operational Areas is attached. A separate figure showing the Environment that May Be Affected (EMBA) is also attached for reference.

Kind regards,

Woodside Feedback

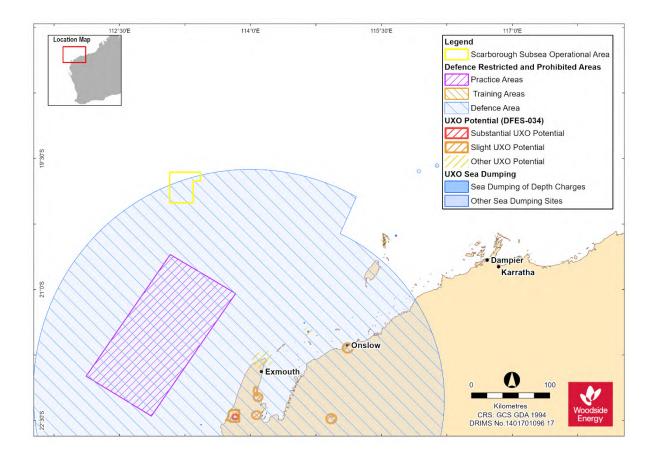


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1.207 Email sent to WAGFA 13 October 2022)

Dear WAGFA

Woodside is sending this email by way of a reminder that the consultation period is closing soon to provide feedback on activities proposed to be managed under the **WA-61-L** and **WA-62-L** Scarborough Subsea Infrastructure Installation Environment Plan (EP).

Please see our initial consultation email below and attached information for further details.

We would appreciate your feedback by 21 October 2022 to support our planning for the development of the EP.

Woodside Feedback

1.208 Email sent to Lightmark Enterprises (27 January 2023)

Dear Titleholder

Woodside has submitted Environment Plans (EPs) to undertake the following activities in Commonwealth waters for the Scarborough development:

- seabed intervention and trunkline installation activities for the section of the Trunkline in Commonwealth
 waters under the Scarborough Seabed Intervention and Trunkline Installation EP (SITI EP); and
- seabed site surveys and installation of subsea production infrastructure under the Subsea Infrastructure Installation EP (Subsea EP).

Updated consultation Information Sheets are attached, which provide additional background on the proposed activities, including summaries of potential key impacts and risks, and associated management measures. These are also available on our <u>website</u>.

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As we are inviting consultation with you on each of the EPs above, for ease of reference, we have attached the information in this one email. In an effort to simplify feedback, we have also included a feedback template (Appendix A) which you may wish to use to provide your feedback specific to the proposed EPs.

Woodside has previously submitted Revision 1 of the **SITI EP** to NOPSEMA which has been available on the NOPSEMA website since January 2022 (https://info.nopsema.gov.au/environment_plans/575/show_public).

Woodside is preparing to submit a further revision of the SITI EP to NOPSEMA with recent changes. We confirm the activities, location and duration described in this revision remains the same, with no material changes. The Subsea EP has not yet been submitted to NOPSEMA.

The SITI EP and Subsea EP fall under the primary environmental approval of the <u>Scarborough Offshore Project Proposal</u> (OPP). The OPP includes a detailed description of activities, an assessment of the potential impacts and risks and includes management measures to demonstrate that the potential impacts and risks will be of an acceptable level. It was accepted by NOPSEMA in March 2020 after an extensive public consultation process.

More information on the Scarborough Project can be found here.

If you have feedback specific to each of the proposed activities described under the relevant EPs, please respond to Woodside at Feedback@woodside.com.au or 1800 442 977 by **26 February 2023**.

Activity:

	SITI EP	Subsea EP
Summary:	Seabed intervention and trunkline installation activities in Commonwealth waters associated with the installation of a carbon steel pipeline (Trunkline) that runs approximately 430 km from the from the proposed offshore Scarborough Floating Production Unit (FPU) to the existing onshore Pluto LNG facility. This EP covers activities for the approximately 400 km section of the Trunkline in Commonwealth waters. A separate EP covers activities in State waters.	Seabed site surveys and installation of subsea production infrastructure. Activities include visual pre- and post-installation surveys, and installation of flowlines, umbilicals and risers and ancillary infrastructure, required for the flow and control of hydrocarbons and produced water to the Scarborough Floating Production Unit (FPU). Mooring legs and suction piles will also be installed and a gravimentry survey is also planned.
Location:	Activities run from the Scarborough FPU in WA-61-L in Commonwealth waters, about 374 km west-northwest of Dampier, to the State waters boundary at the northern extent of the Dampier Archipelago.	Activities are located in permit Areas WA-61-L and WA-62-L, around 374 km west-northwest of Dampier, Western Australia.
Approx. Water Depth (m):	~ 32 m – 1400 m	~ 900 m – 1000 m
Earliest commencement date:	Seabed intervention activities: Mid 2023 pending approvals, vessel availability and weather constraints. Trunkline installation activities: Q4 2023 pending successful completion approvals, vessel availability and weather constraints.	Activities planned to commence in H2 2023 (and estimated to be completed in 18 months with activities occurring in multiple campaigns).
Estimated duration:	~24 months across multiple campaigns	~18 months (cumulative) for the survey and installation activities

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Distance from Operational Area to nearest town	The closest Commonwealth section of the trunkline on the State waters boundary is~32 km north-west of Dampier.	~ 244 km north-northwest of Exmouth, ~ 374 km west-northwest of Dampier.
Distance from Operational Area to nearest marine park	 The trunkline corridor runs through the Montebello Marine Park – Multiple Use Zone (Cwth), close to the northern boundary Offshore borrow ground located to the north of the Dampier Marine Park Habitat Protection Zone 	 ~ 77 km north of the Gascoyne Marine Park (Cwlth) ~ 201 km north-west of Montebello Marine Park (Cwlth) ~ 180 km north-northwest of Ningaloo Marine Park (Cwlth)
Operational Area and Exclusion Zones	Temporary 500 m exclusion zones will apply around applicable seabed intervention and the Trunkline installation vessels. The Operational Areas are: • Trunkline Project Area: The proposed trunkline from around KP 32 (Commonwealth – State Boundary) to KP 435 and 1.5 km either side of the proposed trunkline centreline. • Offshore Borrow Ground Project Area: Offshore Borrow Ground located in Commonwealth waters.	The Operational Area for activities includes a radius of: • 1,000 m around location of the outermost concrete pads. • 1,500 m around location of subsea infrastructure. • 2,000 m around future location of FPU. • Temporary 500 m exclusion zone around vessels to manage vessel movements • An interactive map showing the location of the proposed activities will be available on the Woodside website and will be updated throughout the proposed activities
Vessels:	Seabed intervention: Trailing suction hopper dredge Offshore construction vessel Rock Installation Vessel Survey vessels Support vessels Fuel bunkering vessels Trunkline installation: Pipelay Vessel multi-joint operation Shallow Water Lay Barge Anchor handling vessel/tug Pipe supply vessels Offshore construction vessel Survey vessels Fuel bunkering vessels	Light construction vessels Heavy construction vessels Heavy lift vessels Derrick lay vessel Reel-lay vessels Survey vessels Survey vessels Support vessels

Feedback:

If you have any issues or concerns with these activities, or any other issues relevant to this location, please respond to Woodside at:

Feedback@woodside.com.au or 1800 442 977.

Your feedback and our response will be included in our Environment Plan which will be submitted to the National Offshore Petroleum Safety and Environmental Management Authority (NOPSEMA) for acceptance in accordance with the Offshore Petroleum and Greenhouse Gas Storage (Environment) Regulations 2009 (Cth).

Please let us know if your feedback for any of the activities proposed under an Environment Plan is sensitive and we will make this known to NOPSEMA upon submission of the Environment Plan to ensure this information remains confidential to NOPSEMA.

Please provide your views by 26 February 2023.

Regards,

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Woodside Feedback

APPENDIX A

FEEDBACK	SITI EP	Seismic EP

1.209 Email sent Murujuga Aboriginal Corporation (MAC) (24 February 2023)

Wayiba

I understand that you met with Woodside on Monday 20 February to further discuss the information shared to date on the Nganghurra RTM decommissioning and Scarborough project activity Environmental Plans (EPs). I believe you have been made aware of other EPs we also request your feedback on.

With the exception of removing the Nganhurra RTM and the Scarborough project, for which Woodside is seeking MAC's feedback as soon as possible, Woodside is also seeking MAC's feedback on these decommissioning and drilling activities by **17 March 2023**.

The plain English summary of each of these activities is attached, and I have provided a link to the more detailed consultation information sheets below. These activities are:

Decommissioning Activities:

- Stybarrow. This involves two work activities that are subject to separate environment plans; plug and abandonment (P&A) of the wells and decommissioning the infrastructure.
 - consultation-information-sheet---stybarrow-plug-and-abandonment-environment-plan.pdf (woodside.com)
 - Consultation Information Sheet Stybarrow Decommissioning Environment Plans (woodside.com)
- Griffin decommissioning.
 - consultation-information-sheet---griffin-decommissioning-environment-plans.pdf (woodside.com)

Drilling Activities:

- TPA03 Well Intervention.
 - o Consultation Information Sheet TPA03 Well Intervention Environment Plan (woodside.com)
- WA-34-L Pyxis Drilling and Subsea Installation.
 - o <u>Consultation Information Sheet WA-34-L Pyxis Drilling and Subsea Installation Environment Plan (woodside.com)</u>
- Julimar Appraisal Drilling.
 - Consultation Information Sheet Julimar Appraisal Drilling and Survey Environment Plan (woodside.com)

Thank you for your time in considering these matters and please feel free to contact me on the details below if you require further information or assistance.

Kind regards

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1.210 Email sent to Ngarluma Yindjibarndi Foundation Limited (NYFL) - 20 March 2023

Good morning

Further to your conversations with the Woodside office please the attached summary information sheets relating to the Scarborough project, specifically:

- 1. A Summary Overview of the Scarborough project;
- 2. Summary Information Sheet Scarborough Subsea Infrastructure Installation

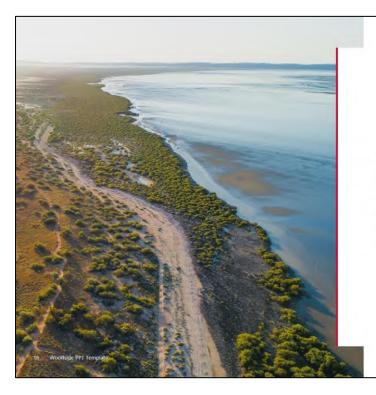
I am aware NYFL has already seen the detailed Consultation Information Sheets, available on our website, which provide further background on the proposed approaches, including a summary of potential key risks and associated management measures.

As you are aware, Woodside commits to ongoing engagement for the life of any environmental plan. Any feedback on the proposed activities can be provided to me on the details below or Feedback@woodside.com.au or by calling 1800 442 977, or directly to the Australian Government's National Offshore Petroleum Safety and Environmental Management Authority to communications@nopsema.gov.au or (08) 6188 8700.

Please don't hesitate contacting me should you wish to discuss further.

Kind regards

1.211 Presentation to Exmouth Community Reference Group (ECRG) (7 April 2022)



SCARBOROUGH PROJECT UPDATE

- · Key highlights and activities
- · Indicative project schedule
- Aviation and people movements



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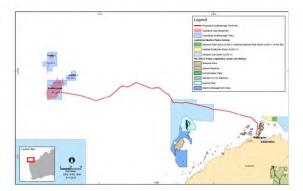
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SCARBOROUGH PROJECT UPDATE

The Scarborough field

- The Scarborough field is located approximately 375 km off the coast of Western Australia and is estimated to contain 11.1 trillion cubic feet (100%) of dry gas
- The Scarborough Joint Venture participants are Woodside Energy Scarborough Pty Ltd (Operator) and BHP Petroleum Australia Pty Ltd







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SCARBOROUGH PROJECT UPDATE Key highlights and activities

- Scarborough JV announced FID November 2021
- Key Scarborough contractors issued full notice to proceed in December 2021, with engineering, procurement and manufacturing well underway
- PHI International awarded helicopter transport and aviation support services for offshore construction activities.
- Local content and Indigenous engagement plans are being agreed with relevant suppliers
- Relevant scopes of work advertised on ICN WA Gateway
- All key primary environmental approvals are in place to support FID, secondary environmental approvals are progressing







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SCARBOROUGH PROJECT UPDATE

Approach to aviation and people movements

- Planning activities progressed, including revision of project execution schedule for Scarborough pipeline and FPU installation
- Mobilisation of people via Learmonth Airport targeted from May 2023, expected to peak in January 2024
- · No overnight travellers, including during peak construction periods
- Woodside and contractors will work with Shire of Exmouth, CRG, Qantas and other Operators on a fixed wing schedule to accommodate Scarborough requirements
- · Cyclone demobilisation will be to Perth, as per the Offshore Cyclone Management Guideline



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SCARBOROUGH PROJECT UPDATE

Forecast people movements through Learmonth Airport

- 1. Current Ngujima-Yin FPSO operations: Around 40 travellers per week each way (~80 total) ongoing
- 2. Enfield Decommissioning: Around 90 travellers per week each way from mid-April 2022 to end April 2023 (~180 total)
- 3. Scarborough: Around 106-474 travellers per week from May 2023 to May 2025. Peak construction around January 2024



Figure 1 - Forecasted personnel movements through Learmonth Airport per month.



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ENVIRONMENT PLANS

Scarborough (Recap)

Scarborough 4D B1 Marine Seismic Survey

- Submitted for assessment October 2021
- Proposal to conduct a 4D baseline marine seismic survey over the Scarborough field within Commonwealth waters, ~ 214 km north-west of Exmouth

Scarborough Drilling and Completions (Cth)

- · Submitted for assessment November 2021
- Proposal for drilling and subsea tree installation activities for eight planned development wells and the potential for a further two additional contingency wells, ~244 km north-northwest of Exmouth

Scarborough Seabed Intervention and Trunkline Installation (Cth)

- Submitted for assessment Dec 2021
- Proposal for seabed intervention and installation activities for the section of the Scarborough Trunkline in Commonwealth waters that runs ~ 430 km from the proposed offshore Scarborough Floating Production Unit (FPU) (~244 km north-northwest of Exmouth) to the existing onshore Pluto LNG facility on the Burrup Peninsula

Scarborough Subsea Infrastructure Installation (Cth)

- In development
- Proposal for visual and gravimetric surveys, plus installation of flowlines, umbilicals, risers, mooring legs, concrete pads and ancillary infrastructure, required for the flow and control of hydrocarbons to the Scarborough FPU, ~244 km north-northwest of Exmouth

For details, please refer to the information sheets in the emails sent to the Exmouth CLG on 1 Feb and the reminder follow up on

Information sheets are also available on Woodside's website and you can also subscribe to receive updates on our consultation through our website





1.212 Email to INPEX (3 May 2023)

Dear Titleholder,

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Woodside previously consulted you (email below) on its plans to undertake seabed site surveys and installation of subsea production infrastructure under the Subsea Infrastructure Installation EP (Subsea EP).

Should you have any feedback on the proposed activities, please let us know.

Kind regards,

Woodside Feedback

1.213 Email to Department of Planning, Lands and Heritage (DPLH) (3 May 2023)

I hope your week is going well.

We note that DPLH previously advised it was finalising comments with respect to the following proposed environment plans:

- seabed intervention and trunkline installation activities for the section of the Trunkline in Commonwealth waters under the Scarborough Seabed Intervention and Trunkline Installation EP (SITI EP);
- seabed site surveys and installation of subsea production infrastructure under the Subsea Infrastructure Installation EP (Subsea EP).

Should DPLH have any feedback on the above proposed activities, please let us know.

Regards,

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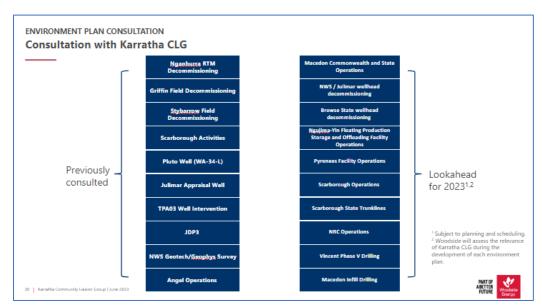
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1.214 Presentation to Karratha Community Liaison Group – 29 June 2023





NEWSPAPER ADVERTISEMENTS, GEOTARGETED SOCIAL MEDIA CAMPAIGNS, COMMUNITY INFORMATION SESSIONS (2023)

2.1 Newspaper advertisements (October 2022 and January 2023)

• The Australian, The West Australian, Pilbara News (10 October 2022)

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THE NATION

No DNA evidence to back Higgins: defence





SCARBOROUGH PROJECT ENVIRONMENT PLANS NOTICE

Activity summary:	Texted remarking and Trustine mislature account in Commonwell leaders for the Scarbonscale development.
Locating	Acceptance from the Commission - State waters, browdery approximately (2) an varificat Company to the Santoncept pain field occasion of Woodsab-spansed Clie Sock WA-OL approximately 10 are used northwest of the Santop Pennyula.
Earlieri coronancement date	Tested meller ton scholler 24 2022 perding approach ersel explicitly and mather contracts. Transities installation activities CA 2222 perding schools completion of Date salesy installation range, approach.
Entirested develops	eroni andatriky and seather constrants. Approximately 28 months across multiple carmanns.
Commissioners of un-	August 2021
EF submission to ADPSYMA	II(Decoration JUI)

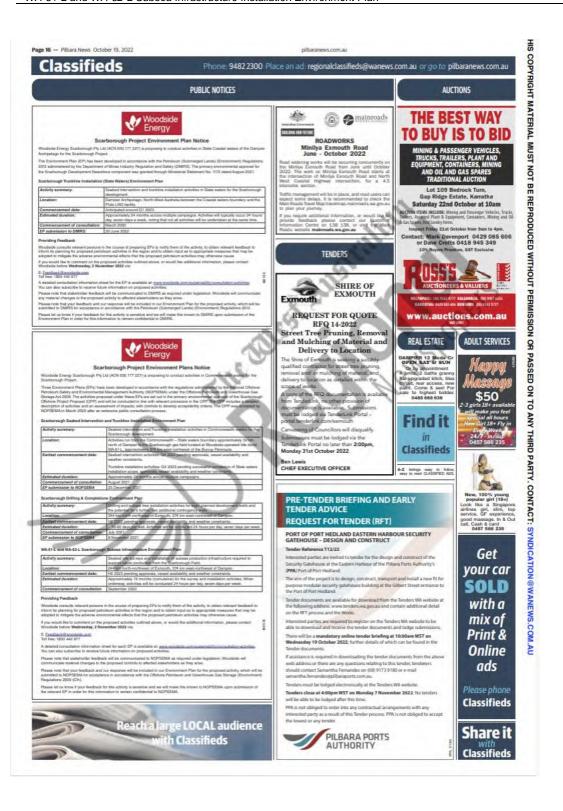
Activity summery:	Drilling and authors then cotalisates actiones to regard givered dissipances was and the potential for a lighter has additional contragency units
Localise	244 km north-rentment of Eurosch 174 km west-northwest of Europea
Earliest convenionment date:	1/2/2022 persons approvals, result analysisty and another constraints.
Extinuited duration	-50-60 days per well. Activities, will be conducted 28 house per day, seven days per week.
Commissioners of un-	AJ y 2021
EF Administration	8/inombie 201

Amily samely:	Subjects to support and inhalation of editors production of purposition required to support follow production from the Scottonings Field.
Lacoston	1944 in noth-forthwest of Europei. 274 in web-portness of Europei.
Sariest communication of state:	107205 perding approvals, leaved analyticity and weather constraints.
Estimated duration	Representative Description and the conserver and minimum acts from all the understand acts of the conducted 24 feath per day areas days are well.
Commencement of	Sestember 3520

SCARBOROUGH PROJECT ENVIRONMENT **PLAN NOTICE**

Activity surrowy:	Seased memorphis and transitive patients or order or State waters for the Scarbonage revelopment.
Looker	Damper Archipelage Vorsh-Ward Australia between the County waters broadery and the Wulso (NG family)
Commerciane date	Antomiced around 0, 2021
Estimated danation	Approximately 25 months across realitate compagns. Activities will list to all control 26 thoraciday, seven day, a reside, noting that out of activities will be undertaken at the same time.
Communication of communication	Nursi 2022
E submission in	X1:Lew 2022

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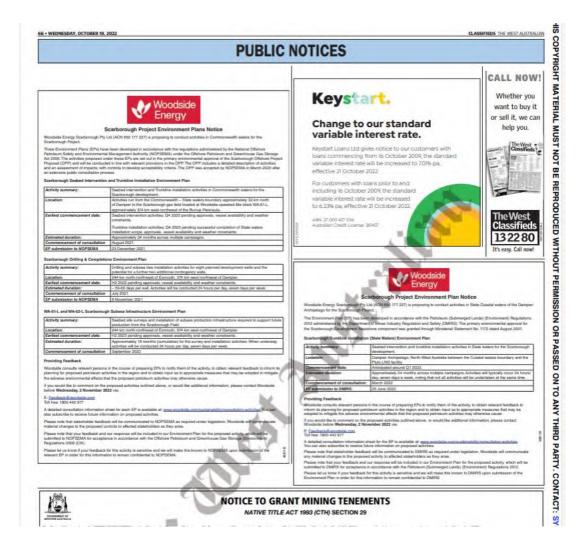


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- The Australian, The West Australian, Pilbara News, Midwest Times, North West Times (18 January 2023)
- Geraldton Times (20 January 2023)

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The Australian - 18 January 2023



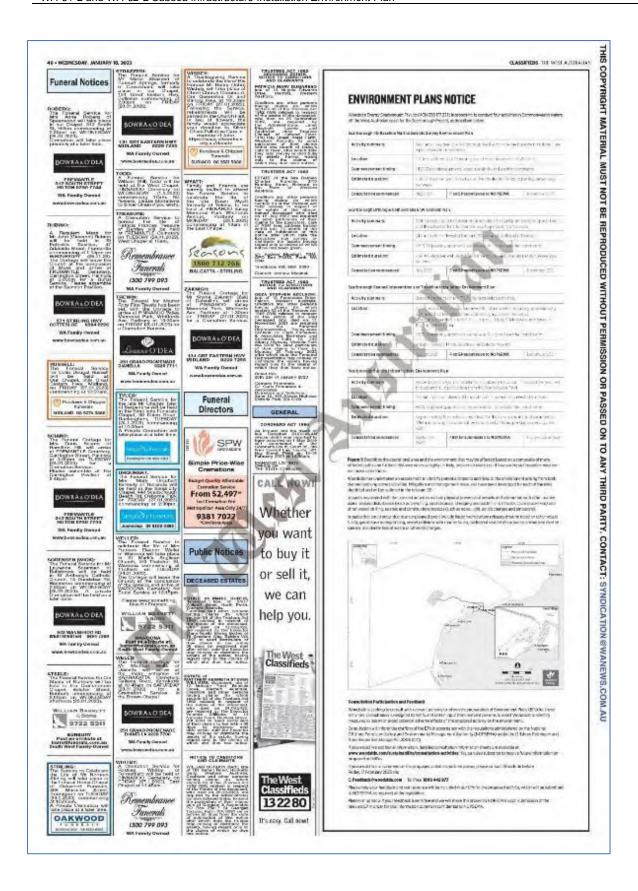
The West Australian - 18 January 2023

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Pilbara News - 18 January 2023



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Midwest Time - 18 January 2023



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North West Times - 18 January 2023



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Geraldton Guardian - 20 January 2023



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2.2 General Environment Plan social media campaign – Geraldton to Derby

Facebook Campaign - May 2023

A Facebook information campaign was targeted along the coastline from Geraldton to Derby to ensure it reached all communities adjacent to the EMBA. Geotargeting locations are distributed along the coast, with 80 km radiuses around towns, cities and shires. Geotargeting points were also included for spaces between towns, cities and shires to ensure no areas were missed – you'll see below there are latitude and longitude references for those locations.

As at 9:00am Monday, 29 May 2023

Ad reach: 21,494 users Impressions: 139,972 views

Clicks through to Consultation Information page: 619 link clicks

Geotargeting locations:

- Broome (+80 km)
- Carnarvon (+80 km)
- Denham (+80 km)
- Exmouth (+80 km)
- Geraldton (+80 km)
- Onslow (+80 km)
- Port Hedland (+80 km)
- Karratha (+80 km)
- Latitude -17 Longitude 122.65 Dampier Peninsula (+80 km)
- Latitude -22.75 Longitude 114.10 Exmouth Gulf (+80 km)
- Latitude -18.96 Longitude 121.94 Gingerah (+80 km)
- Latitude -27.85 Longitude 114.25 Kalbarri National Park (+80 km)
- Latitude -21.32 Longitude 116.03 Mardie (+80 km)
- Pardoo (+80 km)
- Latitude -20.94 Longitude 117.83 Sherlock (+80 km)
- Latitude -26.96 Longitude 113.95 Tamala (+80 km)
- Latitude -19.88 Longitude 121.15 Telfer (+80 km)
- Latitude -17.52 Longitude 123.56 Willare (+80 km)
- Latitude -22.43 Longitude 114.93 Yannarie (+80 km)

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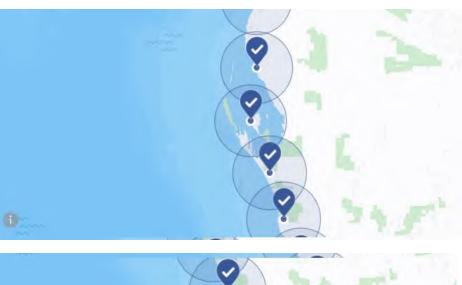


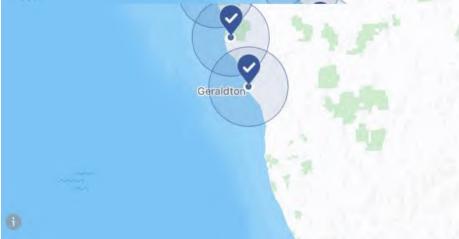


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Facebook Campaign - June 2023

A Facebook information campaign was targeted along the coastline from Geraldton to Derby to ensure it reached all communities adjacent to the EMBA. Geotargeting locations are distributed along the coast, with 80 km radiuses around towns, cities and shires. Geotargeting points were also included for spaces between towns, cities and shires to ensure no areas were missed – you'll see below there are latitude and longitude references for those locations.

As at 11.30am 30 June 2023

Reach: 41,118

Impressions: 285,366 Link clicks: 1,236

Geotargeting locations:

- Broome (+80 km)
- Carnarvon (+80 km)
- Denham (+80 km)
- Exmouth (+80 km)
- Geraldton (+80 km)
- Onslow (+80 km)
- Port Hedland (+80 km)
- Karratha (+80 km)
- Latitude -17 Longitude 122.65 Dampier Peninsula (+80 km)
- Latitude -22.75 Longitude 114.10 Exmouth Gulf (+80 km)

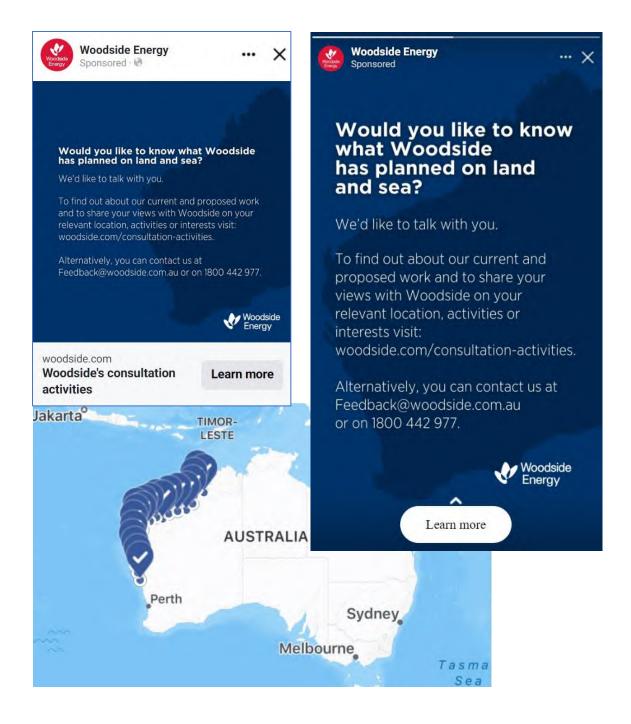
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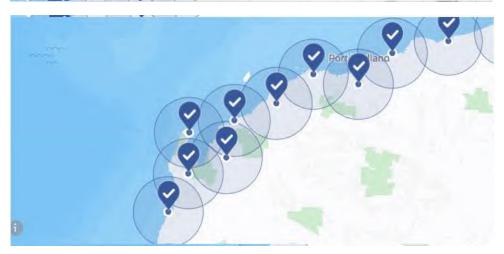
- Latitude -18.96 Longitude 121.94 Gingerah (+80 km)
- Latitude -27.85 Longitude 114.25 Kalbarri National Park (+80 km)
- Latitude -21.32 Longitude 116.03 Mardie (+80 km)
- Pardoo (+80 km)
- Latitude -20.94 Longitude 117.83 Sherlock (+80 km)
- Latitude -26.96 Longitude 113.95 Tamala (+80 km)
- Latitude -19.88 Longitude 121.15 Telfer (+80 km)
- Latitude -17.52 Longitude 123.56 Willare (+80 km)
- Latitude -22.43 Longitude 114.93 Yannarie (+80 km)



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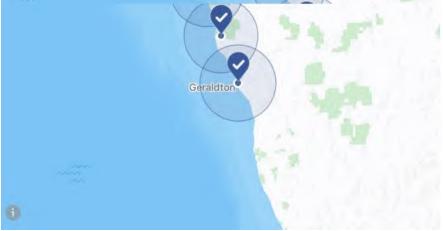


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2.3 Kimberley region community activities

2.3.1 Community information sessions – Broome, Derby and Kununurra – 12, 13 and 15 June 2023 respectively

Geotargeted social media campaign – June 2023

A Facebook information campaign was targeted in Kununurra, Broome and Derby to ensure it reached communities where the Consultation Information Sessions were planned to be held. Geotargeting points were also included for spaces between towns, cities and shires to ensure no areas were missed – you'll see below there are latitude and longitude references for those locations.

As at 3:30pm, Thursday 15 June 2023

Kununurra:

Dates: 8 June 2023 - 14 June 2023

Total reach: 12,228
Total impressions: 14,486
Geotargeting locations:

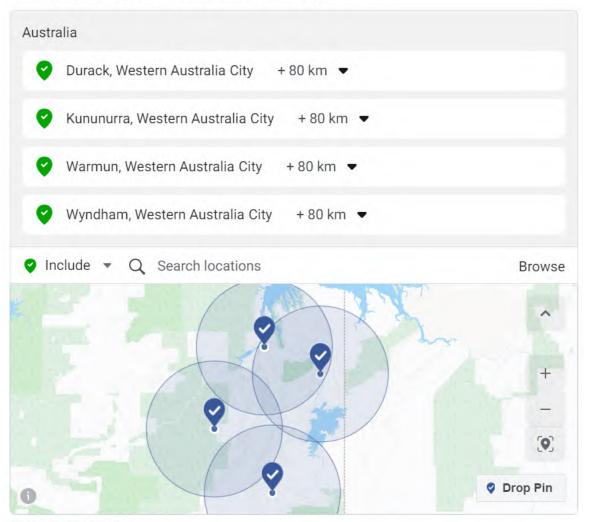
- 80km radius around Kununurra
- 80km radius around Durack
- 80km radius around Warmun
- 80km radius around Wyndham

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* Locations

Reach people living in or recently in this location. 6



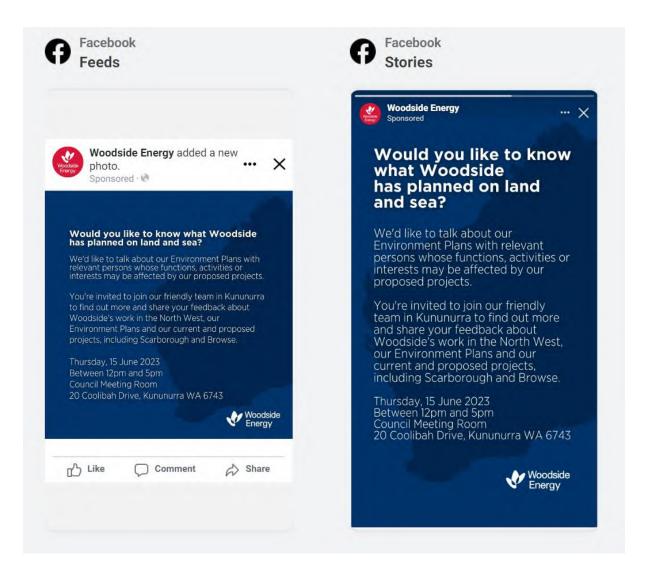
Add locations in bulk

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Broome:

Dates: 8 June 2023 - 12 June 2023

Total reach: 19,220 Total impressions: 22,665 Geotargeting locations:

80km radius around Broome

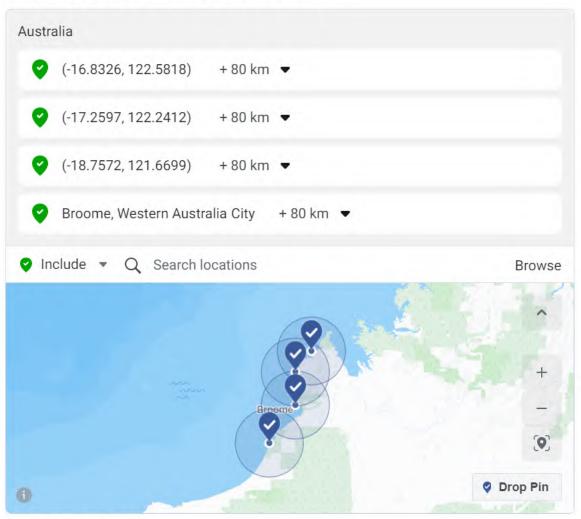
- 80km radius around Dampier Peninsula
- 80km radius around area between Broome and Dampier Peninsula (Waterbank area)
- 80km radius around area south of Broome (Lagrange area)

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Controlled Ref No: SA0006AH0000008 Revision: 2 Page 517 of 550

* Locations

Reach people living in or recently in this location. 1



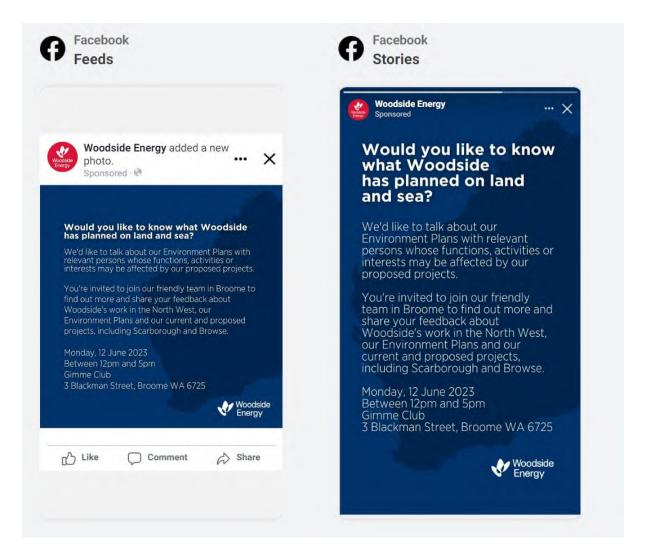
Add locations in bulk

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Derby:

Dates: 8 June 2023 - 13 June 2023

Total reach: 4,758
Total impressions: 5,773
Geotargeting locations:

80km radius around Derby

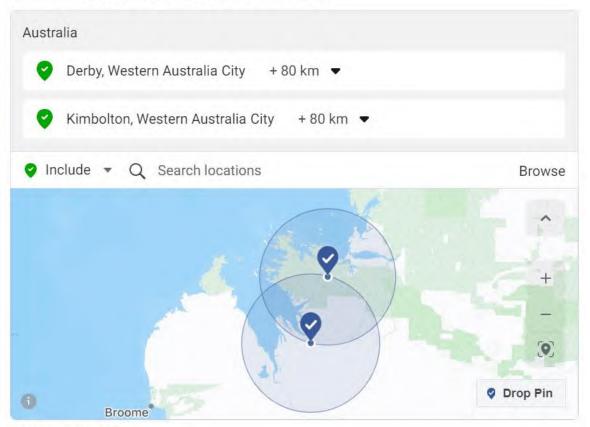
• 80km radius around Kimbolton

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* Locations

Reach people living in or recently in this location. 6



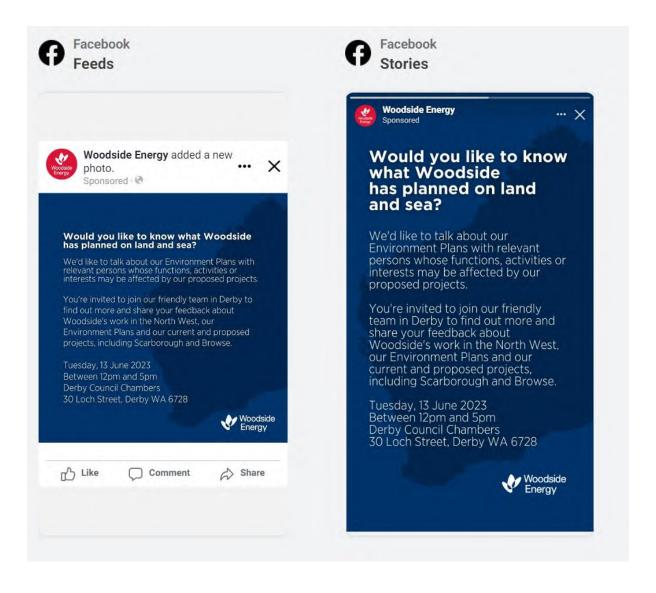
Add locations in bulk

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Community information sessions - Newspaper advertisements

Broome Advertiser - 1 June 2023

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Obroomead.com.au

NEWS

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ON TO ANY THIRD PARTY. CONTACT: SYNDICATION@WANEWS.COM.AU



Centre to offer medical services and child care

& KATYA MINNS

The Shire of Broome has approved a development application for a health and wellness centre which will feature a creche able to look after up to 100 children at a time.

The centre will also supply accommodation for meth

to the Shire's local planning schem The site will be at Frederick Street between the Broome Boulevard Shopping Centre and the Broome Recreation and Aquatic Centre wh Recreation and Aquatic Centre where the St Martin de Porries Re-gragemer School sits. The school is now searching for a new location, according to the Shre agenda. Shire president Desiree Male said the development was a step in the right direction for the tourst town may be a primate developer come. The base a primate developer come to have a primate developer come something (as) significant as this is fantastic site said. "Across the board, we are lacking dreadfully (in child care) and anythin that can add to the shortfall is a

Tanami sealing set for 10-year build time

The sealing of the Tanami track in northern WA will

nfirmed.
Infrastructure Minisherine King's office is
ing the timeframe,
it would ensure a conand manageable
of work for local cons and time for proper

nate estimates that \$43/ illion in Commonwealth nding to seal the Tanami as spread out across the t 10 years, suggesting was how long it would to finish the much-ded upgrade.

soon as possible on the pro-ject, which will improve road safety, connectivity as well as freight access and productivity."

YOU'RE INVITED TO COME AND TALK WITH WOODSIDE ABOUT OUR ACTIVITIES.

Woodside is preparing Environment Plans and wants to discuss these with relevant persons, before submission to the National Offshore Petroleum Safety and Environmental Management Offshore Petrology Authority (NOPSEMA).

Activities

 Plug and Abandonment Decommissioning Activities for the Stybarrow field, located about 53 km north-west of Exmouth.
 Pyxis Drilling and Subsea Installation, located about 170 km north west of Dampier.

We welcome Traditional Custodians and all community members to drop in, have a cuppa, find out more about these activities, and share your views.

We're keen to chat about all our operations, decommissioning activities and proposed projects such as Browse and Scarborough during these community information and feedback sessions.

Broome

Monday 12 June 12pm-5pm Gimme Club 3 Blackman St,

Derby Tuesday 13 June 12pm-5pm Derby Council Chambers,

30 Loch St, Derby

Thursday 15 June 12pm-5pm Council Meeting Room 20 Coolibah Dr. Kununurra

Kununurra

For more information: Feedback@woodside.com.au or phone toll free 1800 442 977 woodside.com









BOARDING INFORMATION EVENING

13th June - Oaks Broome Hotel Broome - 6-8pm

Bookings are essential!

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Broome Advertiser - 8 June 2023



rf club rides crest of





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Broome Monday 12 June 12pm-5pm Gimme Club 3 Blackman St,

Broome

Derby Tuesday 13 June Derby Council 12pm-5pm

Council Meeting Room Chambers, 30 Loch St, Derby 20 Coolibah Dr. Kununurra

Kununurra

12pm-5pm

Thursday 15 June

For more information: Feedback@woodside.com.au or phone toll free 1800 442 977 woodside.com

Thenew Broome Surf Life Saving Club is set to open to the public, with the main construction work of the \$45m project complete.

complete.

The club, due open to the public by late July, features a range of new facilities including new and increased storage areas, an education and function room, a new gym,

and increased storage areas, an education and function room, a new gym, bar and public toilets and showers. And the new facilities are already drawing in new members. Broome Surf Life Saving Club Building director Rob Aristef said he was excited to see the building near completion after working on the project for the better part of a decade. "In 2016 we started to get the project for the better part of a decade." In 2016 we started to get the project for the better part of a decade. "In 2016 we started to get the project for the better part of a decade." In 2016 we started to get the project for the better part of a decade. "In 2016 we started to get the project for the better part of a decade with the project for the better part of a decade." In 2016 we started to get the project for the project for the project for the part of the project for us to replace equipment, attract more members and even expandour patrolling time."

Broome Surf Life Saving Club manager Lauren Henderson said the new Henderson said the new hullding would allow the



Bar manager Chris Andrzejaczek, BSLC chairperson Bec Famlunga, BSLS E Education director Carrie Selten, BSL Building director Rob Artstel, Broome Surf Life Saving Club manager Lauren Henderson. Picture: Cain Andrews

ber and public toilets and showers. And the new facilities are already drawing in new members. Broome Surf Life Saving Club Building director Rob Aristef said he was excited to see the building near completion after working on the project for the better part of a desated. "In 2) 16 we started toget the project for the better part of a desated." In 2) 16 we started toget the project for the better part of a desated. "In 2) 16 we started toget the project for the ground as the old building had reached the end of its life. What we're trying to do is make the club fully estatainable so it will be a lot easier for us to replace equipment, attract more members and even expand our patrolling time."

Broome Surf Life Saving Water Life Saving Club manager Lauren Henderson said the new building would allow the doesn't just benefit our stroileder. Then the work of the project include CWD suiders, Laird Tran around the new club is part of the reason for that. The new building would allow the sound the suid of the project include CWD suiders, Laird Tran shullding would allow the suiders Life Saving Woulders, Laird Tran sound the new club is a part of the reason for that. The new building would allow the suiders Life Saving Water Life Saving Club manager Lauren Henderson said the new building would allow the suiders Life Saving Water Li

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Man jailed for robberies on hotels

The accomplice of a gang who acted as a "lookout" for his fellow offenders at the Oaks Hotel, a few days after breaking into and stealing alcohol from the Roebuck Bay Hotel, has been sen-tenced to 31 months impris-

Anton Caleb Joseph Galova faced Broome's District Court on May 29 and pleaded

Court on May 29 and pleaned guilty to six counts of aggra-vated burglary and stealing. The court was told the 24-year-old was out drinking with friends and family at a residence before being con-vinced to accompany four other men to break into the Deaburk Pay Hotal at about Roebuck Bay Hotel at about

3am on March 18, 2022. Not wanting to be left behind, he went along with the group—helping peel open a metal door to one of the bars with in the hotel and stealing 15 bottles of wine.

Three days later, he and the group went to Oaks Hotel on Robinson Street about 2am with the intention to burgle the bar for alcohol.

to burgle the bar for alcohol.
Galova kept a lookout for
security as his fellow offensecurity as his fellow offen-dersused an axe to break the glass of the restaurant to gain entry into the bar, steal-ing bottles of liquor off the shelves.

An hour after leaving the hotel, the group returned for more alcohol but security was already investigating

the scene and had called

the scene and had called police.
The police approached the men leaving the hotel on Guy Street, uncovering bottles of alcohol in their bags and immediately took them into custody.
Defence lawyer Nick Brookes said his client was "not a sophisticated individ-

ual" and that Galova did not

ual" and that Galova did not believe he was fully involved in the crime, hence his co-op-eration with police when roviding statements against the others involved. District Court Judge Michael Bowden sentenced Galova to 31 months jail, backdated to March 21, 2022. He will be eligible for parole after serving 15% months.



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Kimberley Echo - 1 June 2023

NEWS

Olderbarleys cho.com. sa

Muster ends with Party in the Park







Halle, 1, and Sh

The East Kimborloy's biggest fes-tival came to a bigglose when hun-dreds gathered at Celebrity Tree Park for the Ord Valley Muster's Horizon Power Party in the Park

The event — likely to become a staple of the Muster — was a true suppeor the Muster — was a true East Kimberley celebration, with performances, workshops, dis-plays and fun for the family with

pays and it in for me tampy with local and quest embertainment. Among the line-up was belly dancing, the East Kimberioy Col-lege Primary School Choir, the Wild Brumby Line Dencers, the East Kimberley Community Choir, and the East Kimberley College Bark

Choir, and the East Kimberley College Band Also featuring were bands Cruiss Control, Girls from Or and the Band of the First Prigade, from Darwin.

from Darwin.
But arguably the most popular activity at this year's event was the Sorby Sthort Search, a new rendition of what was for decades called the Diamond Dig.
Like many years before, participants took to three giants and pitatod for population of the properties of the proper

numbers corresponding with var-ious prizes, which ranged from pend lights and a truck wash, to a stunning sliver neckines.



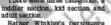
Max & Claire Hogg.

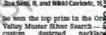














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Broome Monday 12 June 12pm-5pm

Tuesday 13 June 12pm-5pm Gimme Club Derby Council 3 Blackman St, Chambers, 30 Loch St, Derby

Kununurra

Thursday 15 June 12pm-5pm Council Meeting Room 20 Coolibah Dr,

For more information: Feedback@woodside.com.au or phone toll free 1800 442 977 woodside.com

Derby



The laughs just kept coming at Comedy in the Park show

CALLY DUPE

It was a night of side-split-ting laughter at Kumunur-ra's sold out Comsdy in the Park, with a buge crowd of 900 turning out to enjoy the highlights of the Boob Meta-is Ord Valley Mustar. The comsdy line-up was band-picked by the festival organisers to ensure the hughs were non-stop all might, and included comedi-nas Steph Tisdell, Chris Franklin, Bov Killick and Pablian Woods.

It was a global audience at his year's Comedy in the with guests The Kimberley Etho spoke with hall-ing from across Australia and as far away as Oregon in the US.

and as far away as Oregon in fis US.

Hostad by the hilarious self-confessed yobbo Franklin, the crowel roared with hughter listening to his mischievous antices and uple stories, tapping into everyone's inner bogun.

From his fannels tis shirt is his double plugger thougs, Franklin's "Hoganesque" style of comedy touched on the delicate Lesses of discovering he is one-sixteenth Abortginal, boors and rela-Abortginal, booze and rela-

liant, we've had a great up here, the Ord Valley Me ter has looked after us we Franklin said.

A proud Noongar Yaman man, Woods had the crow chuckling with funny talk of traditional names to dances.

dances.

Bold, brassy and bruth
honest, Killick had every
shedding tears of laugh
with her rough talking, so
mama jokes about pilat
loving joggy mothers a grotty

teerings boys. with her self-deprocasis humour that kept audien



our team of experts is here to help you

Call us now 1300 572 766

Kimberley Small **Business** Support

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Kimberley Echo - 8 June 2023

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Derby Kununurra Broome Monday 12 June Tuesday 13 June Thursday 15 June 12pm-5pm 12pm-5pm 12pm-5pm Gimme Club Derby Council Council Meeting Room 3 Blackman St, Chambers, 20 Coolibah Dr, Broome 30 Loch St, Derby Kununurra

For more information: Feedback@woodside.com.au or phone toll free 1800 442 977 woodside.com



FOR THE LATEST NEWS kimberleyecho.com.au

NEWS Burney to blit **WA for Voice**

DAN JERVIS-BARDY

Minister for Indigenous Australians Linda Burney will next month spend a full week criss-crossing WA to week criss-crossing WA to build grassroots support for the Voice to Parliament.

Ms Burney told an audience in Perth on Mon-day the people of WA had a "big job" in helping the

referendum across the line. In a speech to the Austra-lian Institute of Aborigina and Torres Strait Islander

lian Institute of Aboriginal and Torres Strait Islander Studies summit, the minister said she would travel from "Kununurea to Charemont, from Perth to the Pilbara" to listen and talk to voters about the Voice to Parlisment.

The vallying cry came as Canning MP Andrew Hastie sunches a fundraising drive to position himself as a leading figure in the No campaign. The outcome in WA could be crucial because a majority Yes vofe is needed in at least four of the six States to succeed.

Ms Burney recalled the same school as her, said: You know, Linda, the day to position himself as a leading figure in the No campaign. The outcome in WA could be crucial because a majority Yes vofe is needed in at least four of the State States to succeed.

Ms Burney recalled the summit it was the State to succeed.

Ms Burney recalled the summit if was the First Nachon specific with the State of the Sta

ment.
"This referendum is once-in-a-lifetime opporanity," she said.
"We have within our grant

the chance to make a per tive change that will last

while Ms Burney other Government midters are upbeat about the ferendum, polls suggert in the latest News showed fewer than half voters intended to suppur the constitutional changes. interned Dean Parkin ening in the numbers' understandable after re heated political debate. "The conversation been bogged in Canber politics, in a fair bit of r tivity there," Mr Parkir

"That phase is coming to an end and so that will all us to increase the focus an end and some more cut through on that conversation that starting to grow significantly in communities."



One in six Australians experience hearing loss.

Having a hearing test helps to detect the early signs of hearing loss, so we can keep our hearing healthy for longer.

Book a hearing check, talk to a health professional, or visit health.gov.au/hearing for more information.



Authorised by the Australian Government, Canberra

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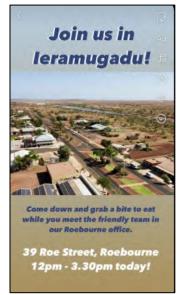
2.4 Pilbara region community activities

2.4.1 Community information sessions – Roebourne – 5, 10, 19, 24 May 2023

Woodside Facebook Stories - May 2023

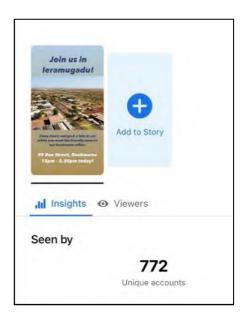
Facebook stories on Friday 5/5/2023 seen by 772 people (attachment #1 & #2) and another Facebook story on Wednesday 10/5/2023 seen by 1,400 people (attachment #3 & #4).

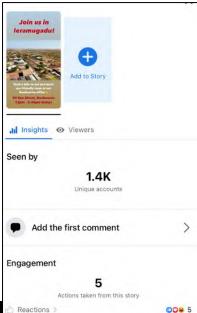
#1 & #2



#3 & #4







Woodside Facebook Post

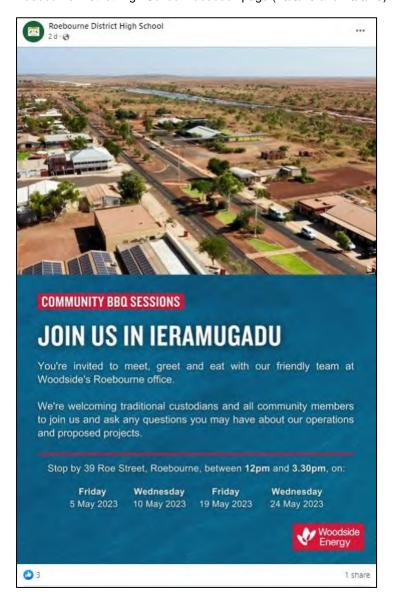






Third-party Facebook posts

Roebourne District High School Facebook page (23/5/23 and 18/5/23)



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Email sent out via Roebourne Community Calendar – 29 April 2023

Posters and invitation extended via the Roebourne Community Calendar which has a very broad reach to all optin organisations including local TO groups, NFP, NGO, Government Agencies and other.



Posters for Community Information Sessions, Roebourne – 5, 10, 19 and 24 May 2023

The posters were physically posted up on community boards in Roebourne at:

- BP Service Station
- Post Office community board
- Community Resource Centre board at Foundation Food
- Centrelink office at NBAC

Posters dropped posters to:

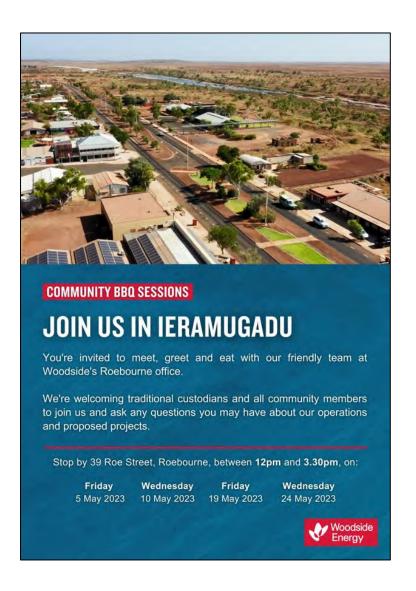
- REFAP both Ganalili and work site offices
- Police
- Roebourne District High School Cultural classroom

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2.4.2 Community information sessions – Roebourne - 22 June and 19 July

Posters for Community Information Session, Roebourne – 22 June 2023

On 22 June 2023, Woodside held a Consultation Information Session at its Roebourne office. The session was hosted by members from Woodside's Corporate Affairs and Environment teams and was open for all community members to receive information regarding Woodside's Environment Plans and proposed and planned activities.

Woodside distributed posters advertising the session locally, including:

- Front door and front window of Woodside Roebourne office
- Online distribution via the Roebourne Community Calendar
- Roebourne Police Station provided with printed copy.

Woodside staff also visited the following offices promoting the session:

- Ngarluma and Yindjibarndi Foundation Ltd (NYFL)
- Ngarliyarndu Bindirri Aboriginal Corporation
- Yinjaai-Barni Art
- Foundation Foods.

Posters for Community Information Session, Roebourne - 19 July 2023

On 19 July 2023, Woodside held a Consultation Information Session at its Roebourne office. The session was hosted by members from Woodside's Corporate Affairs and Environment teams and was open for all community members to receive information regarding Woodside's Environment Plans and proposed and planned activities.

Woodside distributed posters advertising the session locally, including:

- Front door and front window of Woodside Roebourne office, with the open sign and fact sheets on display inside
- On the noticeboard at Roebourne Community Resource Centre (inside the Leramugadu Store (NYFL's Foundation Foods).
- Roebourne CRC
- Pilbara Community Legal Service
- NBAC
- WAPOL
- BP.

Woodside staff also visited the following offices to advise of the community information session and provide posters:

- Ngarluma and Yindjibarndi Foundation Ltd (NYFL)
- Yinjaai-Barni Art Group
- Yandi for Change
- NYFL
- WY Program
- Roebourne Library
- Yindjibarndi Ranger office
- Ashburton Aboriginal Corporation
- A poster was also put up at Cossack.

The posters were physically posted up on community boards in Roebourne on 14 July 2023 at:

- Roebourne CRC
- Pilbara Community Legal Service
- NBAC
- WAPOL
- BP
- Cossack.

Posters were delivered to:

- Yinjaai-Barni Art Group
- Yandi for Change
- NYFL

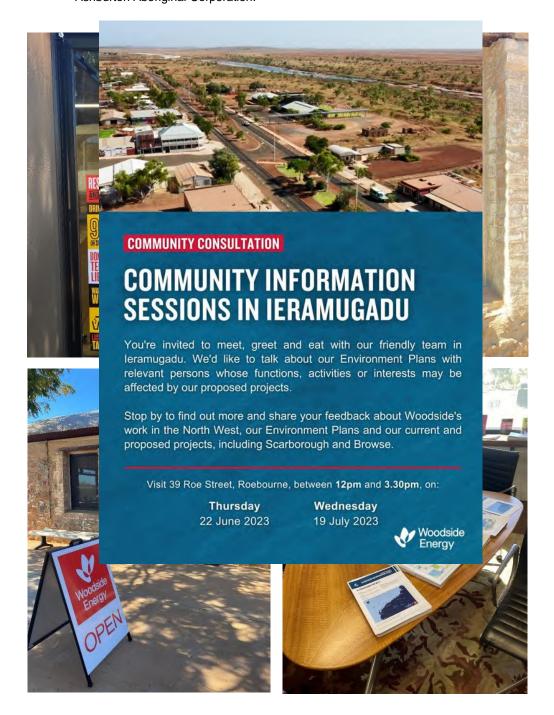
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- WY Program
- Roebourne Library
- Yindjibarndi Ranger office
- Ashburton Aboriginal Corporation.



2.4.3 Community information sessions – Karratha – 28 and 29 June 2023

Karratha Community Information Session Facebook post – 28 June 2023

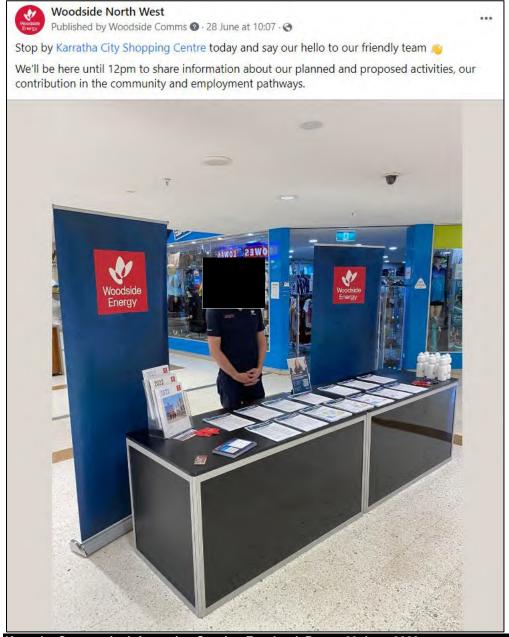
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On 28 June 2023, Woodside posted a story on its Woodside North West Facebook account, sharing details of its shopping centre stand where Consultation Information Sheets regarding is planned and proposed activities were available, including the activities proposed under this EP.

Platform/channel: Woodside North West (Facebook)

Date: 28 June 2023 Reach: 1,464 viewers Impressions: 1,464 views



Karratha Community Information Session Facebook Post – 29 June 2023

On 29 June 2023, Woodside held a drop-in session at its Karratha town office. The drop-in session was hosted by one of Woodside's Senior Environmental Advisers and was open for all community members to receive information regarding Woodside's Environment Plans and proposed and planned activities.

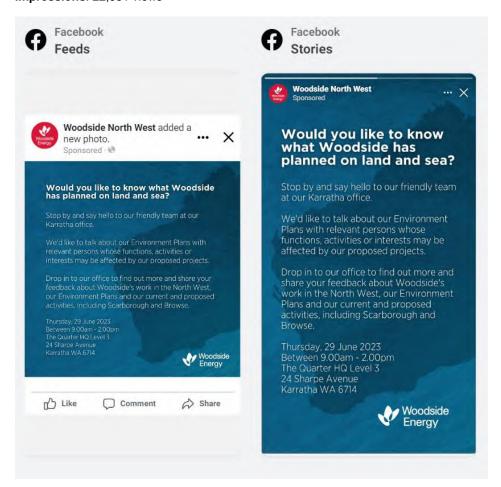
Dates: 16 June 2023 – 29 June 2023 **Geotargeting**: 40km radius around Karratha

Reach: 19,240 viewers

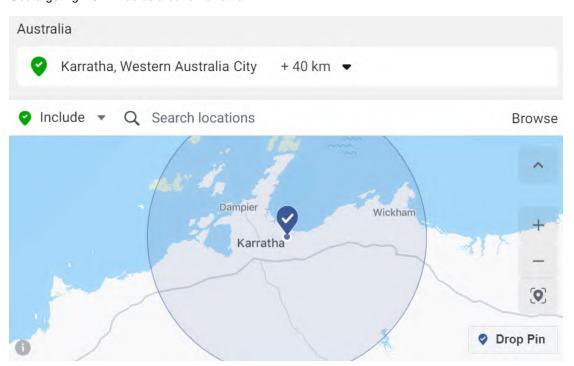
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Impressions: 22,931 views



Geotargeting: 40 km radius around Karratha



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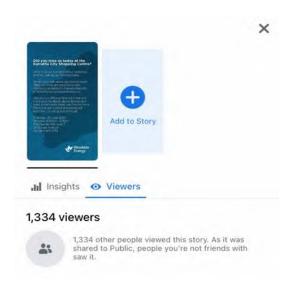
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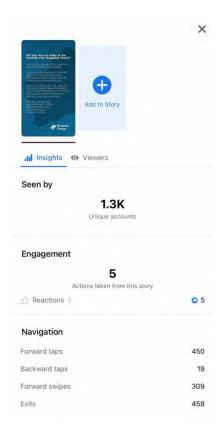
On 28 June 2023, Woodside posted a story on its Woodside North West Facebook account, sharing details of its drop-in session.

Reach: 1,366 viewers Impressions: 22,931 views



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Karratha Community Information Session – Newspaper advertisement

Pilbara News - 28 June 2023

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2.4.4 Karratha FeNaCING Festival – 5 and 6 August

- On 5 and 6 August 2023, Woodside had a stand at the annual FeNaCING Festival in Karratha.
- Members of Woodside's Corporate Affairs and Operations teams actively engaged with the community to discuss proposed EP activities.
- The stand included Consultation Information Sheets for a number of EPs including this EP.
- An EP consultation banner with QR code (linked to the Consultation Activities page on the Woodside website), a Scarborough Project banner, and Browse Project banners were displayed at Woodside's stand.
- Approximately 2,000 people visited the Woodside stand (based on the number of completed consultation forms and questionnaires).
- All community members were encouraged to provide their views on Woodside activities through the Woodside feedback form on the Woodside website, or to subscribe to Woodside updates. An iPad was available for stakeholders to do this on the spot.
- This consultation opportunity was promoted in the Pilbara News on 2 August 2023, and a story appeared on the Woodside North West Facebook page on 2 August 2023.
- Community discussions centred on:
 - a. Update of Woodside activities, and employment and contracting opportunities;
 - b. General Scarborough project update and operations. A Scarborough operations map and Floating Production Unit images were available. There was general community interest and support for the project. Discussions included:
 - Location of the fields, distance from shore and water depth
 - Length of the pipeline
 - Interest that the Field Production Unit would not be fixed to the seafloor and its size
 - Progress and development of Pluto Train 2, and role of Pluto Train 1
 - Scarborough commencement and field life;

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2.4.5 Passion of the Pilbara – Onslow – 17 August 2023

- Woodside had a stand at the Passion of the Pilbara festival in Onslow.
- Members of Woodside's Corporate Affairs team actively engaged with the community to discuss proposed EP activities.
- The stand included Consultation Information Sheets for a number of EPs including this EP.
- Approximately 100 people visited the Woodside stand.
- Community members were encouraged to provide their views on Woodside's activities through the Woodside feedback form on the Woodside website, or to subscribe to Woodside updates.
- This consultation opportunity was promoted in a story on the Woodside North West Facebook page on 17 August 2023.
- Community discussions centred on:
 - a. Update of Woodside activities and employment opportunities.

b.

- c. General Scarborough project update and operations. A Scarborough operations map and Floating Production Unit images were available. There was general community interest and support for the project. Discussions included:
 - Support for the project and dissatisfaction about protester activity against the project
 - Number of jobs during construction
 - Location of activities (noting activity was not off the coast of Onslow).
- One individual asked in relation to the Scarborough Project what Woodside was doing to protect the environment.

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2.4.6 Community information sessions – Karratha, Port Hedland and Roebourne – 18, 19 and 20 September respectively

- During 18–20 September 2023, Woodside consulted the Karratha, Port Hedland and Roebourne communities on EP activities.
- Members of Woodside's Corporate Affairs, First Nations, Environment and Scarborough Project teams actively engaged the community to discuss proposed EPs, including the Scarborough and Browse projects.

18 September 2023

- Karratha Shopping Centre 8am–12pm
- Red Earth Arts Precinct 3–6pm
- Estimated number of people consulted: 20

19 September 2023

- Port Hedland, South Hedland Square 10am–5pm
- Estimated number of people consulted: 2

20 September 2023

- Roebourne, Woodside Office 10am–4pm
- Estimated number of people consulted: no attendance at the session due to Sorry Business and multiple Aboriginal corporation meetings which were unknown at the time of scheduling/planning engagements.
- These consultation opportunities were promoted in the Pilbara News on 13 September 2023, and via Facebook and Instagram social media campaigns from 6 to 16 September 2023.
- An EP consultation banner with a QR code linking to the Consultation Activities page on the Woodside website, a Scarborough Project banner, and Browse Project banners were displayed at Woodside's stand.
- Consultation on all Scarborough EPs occurred. Consultation Information Sheets on all activities were available including this EP, and Woodside's seismic 101 video was shown on an iPad to those interested in that activity. A Scarborough Project map was shown and discussed.
- All community members were encouraged to provide their views on Woodside's activities through the feedback form on the Woodside website or to subscribe to Woodside updates. An iPad was available for stakeholders to do this on the spot.
- Community discussions specific to the Scarborough Project centred on:
 - Opportunities for employment and business
 - Planned Scarborough seismic activities
 - A general Scarborough project update and operations. A Scarborough operations map and Floating Production Unit images were available. There was general community interest in the project. Discussions included:
 - General location (offshore and onshore);
 - Progress and development of Pluto Train 2, and role of Pluto Train 1
 - Project commencement
 - Final customers of the gas, described LNG and also the domestic gas supply to Western Australia
 - One individual in Karratha queried the impacts of seismic to the environment. Woodside's discuss impacts and mitigations
 - Two individuals subscribed to the Woodside website to receive consultation information
 - Kariyarra Aboriginal Corporation discussed business opportunities
 - Nyamal Aboriginal Corporation discussed training and job opportunities
 - Opportunities for engagement with Prescribed Body Corporate's (PBC's).

Pilbara News Advertisement – 13 September 2023

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Social Media – 6 to 16 September 2023

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Are you interested in what Woodside has planned on land and sea?

Stop by and say hello to our friendly team in Karratha.

We'd like to talk to relevant persons about our Environment Plans. We welcome your input and wish to provide you with the opportunity to share information and discuss your functions, activities or interests which may be affected by our proposed projects.

Monday, 18 September 2023

Between 8.00am - 12.00pm Karratha Shopping Centre Sharpe Avenue Karratha

Between 3.00pm - 6.00pm Red Earth Arts Precinct 27 Welcome Road Karratha



Are you interested in what Woodside has planned on land and sea?

Stop by and say hello to our friendly team in Port Hedland.

We'd like to talk to relevant persons about our Environment Plans. We welcome your input and wish to provide you with the opportunity to share information and discuss your functions, activities or interests which may be affected by our proposed projects.

Tuesday, 19 September 2023Between 10.00am - 5.00pm
South Hedland Square
9-31 Throssell Road
South Hedland



Are you interested in what Woodside has planned on land and sea?

Stop by and say hello to our friendly team in Roebourne.

We'd like to talk to relevant persons about our Environment Plans. We welcome your input and wish to provide you with the opportunity to share information and discuss your functions, activities or interests which may be affected by our proposed projects.

Wednesday, 20 September 2023

Between 10.00am - 4.00pm Woodside Office, Roebourne 39 Roe Street Roebourne



Social media reach:

Location	Reach
Karratha	22,095
Port Hedland	26, 487
Roebourne	22,134

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Karratha Shopping Centre, Karratha – 18 September 2023



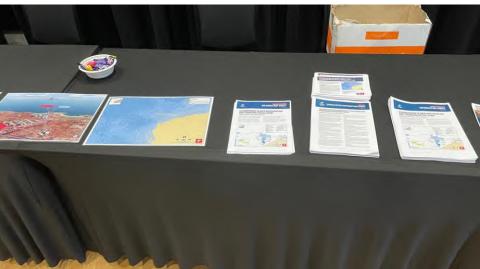


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Red Earth Arts Precinct, Karratha - 18 September 2023





South Hedland Square, Port Hedland – 19 September 2023

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Woodside Office, Roebourne – 20 September 2023

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2.5 Gascoyne region community activities

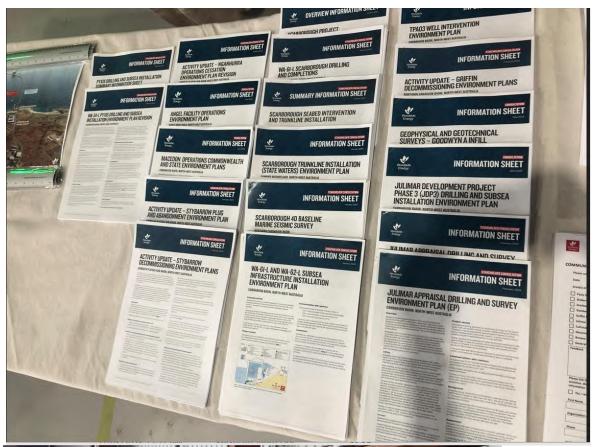
2.5.1 Community information session – Exmouth – 17 June 2023

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- Woodside supported the PHI Helicopters community open day at the Exmouth Aerodrome on Saturday 17 June (10am – 1pm).

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- Members of Woodside's Corporate Affairs, Environment and Scarborough Project teams actively engaged the community to discuss proposed EPs.
- Approximately 300 community people attended the event (adults and children).
- The majority of people wanted to understand Woodside's connection with PHI. There were also queries on contracting and job opportunities, including specifically for Scarborough activities.
- General questions from approximately five community members included:
 - Whales what Woodside is doing to protect whales, what the impact to whales might be
 - The Scarborough FPU and nature of this i.e. is it DP or moored to the seabed, was it like an FPSO
 - General interest questions on Scarborough project location, activities (i.e. trunkline installation, construction work at Pluto gas plant (within existing footprint), trunkline size and routing and why the location was chosen, field life and start up timing
 - Turtle nesting and lighting controls
 - Funding for whale shark research
- Many of the Consultation Information Sheets available were taken by attendees. Two attendees said they were taking the information sheets so they could see pipeline routes (for fishing opportunities), specifically mentioning permit numbers they were after.

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Exmouth Community Information Session - Geotargeted social media campaign - June 2023

A Facebook information campaign was targeted in Exmouth to ensure it reached communities where the Consultation Information Session was planned to be held. Geotargeting points were also included for spaces between towns, cities and shires to ensure no areas were missed – you'll see below there are latitude and longitude references for those locations.

Dates: 15 June 2023 – 17 June 2023

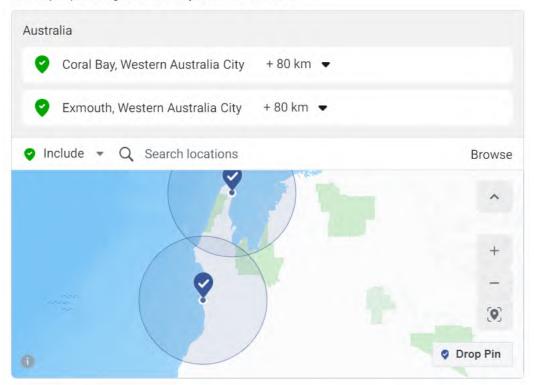
Platform: Facebook

Ad type/placement: Feed tile and story

Reach: 6,801 Impressions: 8,237 Geotargeting (see below)

80km radius around Exmouth80km radius around Coral Bay

Reach people living in or recently in this location. 1



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APPENDIX G DEPARTMENT OF ABORIGINAL AFFAIRS HERITAGE SEARCH RESULTS

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Aboriginal Heritage Inquiry System

List of Registered Aboriginal Sites

For further important information on using this information please see the Department of Planning, Lands and Heritage's Disclaimer statement at https://www.dplh.wa.gov.au/about-this-website

Search Criteria

No Registered Aboriginal Sites in Shapefile - EMBA_20210507. Warning: Search area complex so results may be inaccurate. Contact DPLH for assistance.

Disclaimer

The Aboriginal Heritage Act 1972 preserves all Aboriginal sites in Western Australia whether or not they are registered. Aboriginal sites exist that are not recorded on the Register of Aboriginal Sites, and some registered sites may no longer exist.

The information provided is made available in good faith and is predominately based on the information provided to the Department of Planning, Lands and Heritage by third parties. The information is provided solely on the basis that readers will be responsible for making their own assessment as to the accuracy of the information. If you find any errors or omissions in our records, including our maps, it would be appreciated if you email the details to the Department at AboriginalHeritage@dplh.wa.gov.au and we will make every effort to rectify it as soon as possible.

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Coordinate Accuracy

Coordinates (Easting/Northing metres) are based on the GDA 94 Datum. Accuracy is shown as a code in brackets following the coordinates.

Identifier: 617221



Aboriginal Heritage Inquiry System

List of Registered Aboriginal Sites

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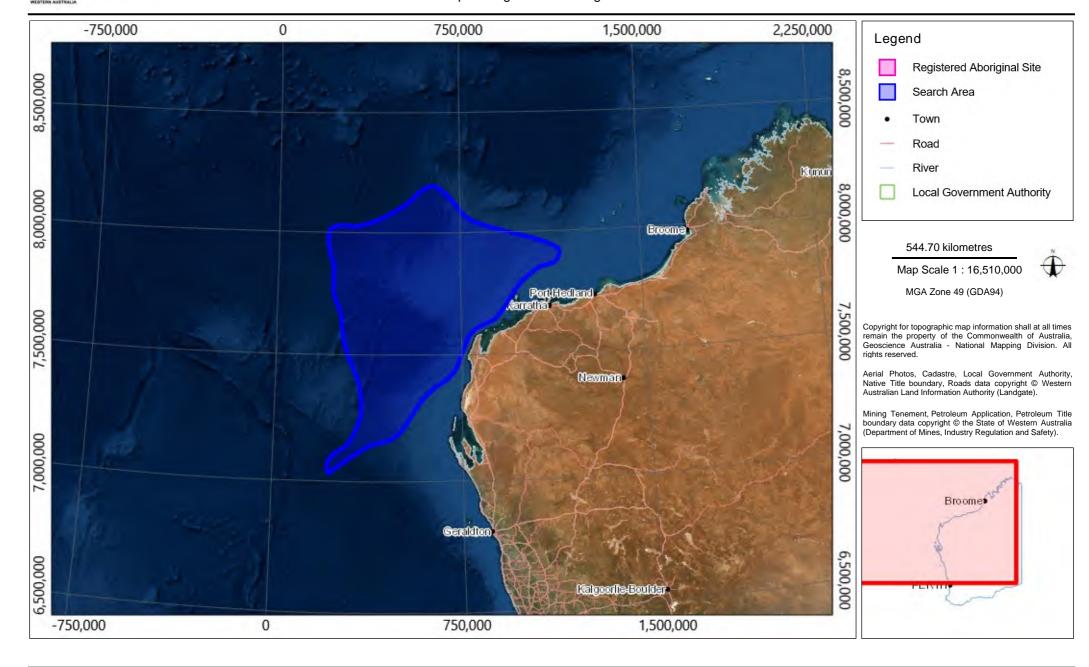
Identifier: 617221

Aboriginal Heritage Inquiry System

Map of Registered Aboriginal Sites

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Identifier: 617221



APPENDIX H OIL POLLUTION FIRST STRIKE PLAN

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WA-61-L and WA-62-L Subsea Infrastructure Installation – Oil Pollution First Strike Plan

Corporate HSE
Hydrocarbon Spill Preparedness

October 2023 Revision 0a

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CONTROL AGENCIES AND INCIDENT CONTROLLERS

Source	Location	Level	Control Agency	Incident Controller
Spill from facility including subsea infrastructure	Commonwealth waters	1	Woodside	Person In Charge (PIC) with support from Onshore Team Leader (OTL)
Note: pipe laying and accommodation vessels are considered a "facility" under Australian regulations		2/3	Woodside	Corporate Incident Management Team Incident Commander (CIMT IC)
	State waters	1	Woodside	CIMT IC
		2/3	Department of Transport (DoT)	DoT Incident Controller
Spill from vessel	Commonwealth	1	1 Australian Marine	Vessel Master
Note: SOPEP should be implemented in conjunction with this document	waters		Safety Authority (AMSA)	
with this document		2/3	AMSA	AMSA (with response assistance from Woodside)
	State waters	1	DoT	DoT Incident Controller
		2/3	DoT	DoT Incident Controller

SPILLS IN STATE WATERS

As detailed in the table above, in the event of a hydrocarbon spill (hereafter 'spill') where Woodside Energy Ltd ('Woodside') is the responsible party/ Control Agency and the spill may impact State waters and shorelines, Woodside (or the Vessel Master) will commence the initial response actions and notify the Western Australian Department of Transport (DoT).

Initially Woodside will be required to make available an appropriate number of suitably qualified persons to work in the DoT IMT (APPENDIX F – Woodside Liaison Officer Resources to DoT). DoT/PPA's role as the Controlling Agency in State waters does not negate the requirement for Woodside to have appropriate plans and resources in place to adequately respond to a marine hydrocarbon spill incident in State Waters or to commence the initial response actions to a spill prior to DoT establishing incident control in line with DoT Offshore Petroleum Industry Guidance Note – Marine Oil Pollution: Response and Consultation Arrangements (July 2020). Cost recovery arrangements for offshore marine pollution incidents (MOP) are in accordance with Section 9 of the Guidance Note:

https://www.transport.wa.gov.au/mediaFiles/marine/MAC_P_Westplan_MOP_OffshorePetroleumIn_dGuidance.pdf

Woodside's Incident Management Structure for a hydrocarbon spill, including Woodside Liaison Officer's command structure within DoT can be seen at APPENDIX E - Woodside Incident Management Structure.

The coordination structure for a concurrent hydrocarbon spill in both Commonwealth and State waters/ shorelines is shown in APPENDIX D – Coordination Structure for a concurrent hydrocarbon spill in both Commonwealth and State waters/ shorelines.

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Woodside ID: 1401781445

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RESPONSE PROCESS OVERVIEW

	For guidance on credible scenarios and hydrocarbon characteristics, refer to APPENDIX A							
ALL	Notify the Woodside Communication Centre (WCC) on:							
AI	Incident Controller or delegate to make relevant notifications in Table 1-1 of this Oil Pollution First Strike Plan.							
	FACILITY INCIDENT	VESSEL INCIDENT						
LEVEL 1	Coordinate pre-identified tactics in Table 2-1 of this Oil Pollution First Strike Plan. Remember to download each Operational Plan.	Notify AMSA and coordinate pre-identified tactics in Table 2-1 of this Oil Pollution First Strike Plan Remember to download each Operational Plan.						
_	If the spill escalates such that the site cannot manage the incident, inform the WCC on: and escalate to a level 2/3 incident.							
	FACILITY INCIDENT	VESSEL INCIDENT						
	Handover control to CIMT and notify DoT	Handover control to AMSA and stand up CIMT to assist.						
LEVEL 2/3	Commence quick revalidation of the recommended strategies on Table 2-1 taking into consideration seasonal sensitivities and current situational awareness. Commence validated strategies.	If requested by AMSA: Commence quick revalidation of the recommended strategies on Table 2-1 taking into consideration seasonal sensitivities and current situational awareness. Commence validated strategies.						
	Create an Incident Action Plan (IAP) for all ongoing operational periods The content of the IAP should reflect the selected response strategies based on current situational	If requested by AMSA: Create an IAP for all ongoing operational periods The content of the IAP should reflect the selected response strategies based on current situational awareness. For the full detailed pre-operational NEBA see the OSPRMA Appendix A						

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evision: 0a Woodside ID: 1401781445

1. NOTIFICATIONS

The Incident Controller or delegate must ensure the below notifications (Table 1-1) are completed within the designated timeframes.

For spills from a vessel, relevant notifications must be undertaken by a WEL representative.

Table 1-1: Notifications Timing	Ву	То	Name	Contact	Instruction	Form	Complete? (✓)
					s and/or Bridging Documents	Form	Complete: (v)
				ough Drilling and Completion			
	R ALL LEVELS OF SPILL	ili asii uctule, ais	o activate Scarbore	ough Drining and Completion	is Oil Spill First Strike Flati		
Immediately	Offshore Installation Manager (OIM) or Vessel Master	Woodside Communication Centre (WCC)	CIMT IC		Verbally notify WCC of event and estimated volume and hydrocarbon type.	Verbal	
Within 2 hours	Woodside Site Rep (WSR)	National Offshore Petroleum Safety	Incident notification office		Verbally notify NOPSEMA for spills >80L. Record notification using Initial Verbal Notification Form or equivalent and send to NOPSEMA as soon as practicable (cc to NOPTA and DMIRS).		
Within 3 days	WSR	Environmental Management Authority (NOPSEMA ¹)			Provide a written NOPSEMA Incident Report Form as soon as practicable (no later than 3 days after notification) (cc to NOPTA and DMIRS) NOPSEMA NOPTA DMIRS		
As soon as practicable	CIMT IC or Delegate	Woodside	Environment Unit Leader	As per roster	Verbally notify Unit Leader of event and seek advice on relevant performance standards from EP	Verbal	
Within 2 hours of becoming aware of a marine pollution incident (MOP) that occurs in or may impact state waters	CIMT IC or Delegate	WA Department of Transport	DoT Maritime Environmental Emergency Response Unit (MEER) Duty Officer		Verbally notify DoT MEER Duty Officer that a spill has occurred and, if required, request use of equipment stored in [Karratha/Fremantle/]. Follow up with a written POLREP as soon as practicable following verbal notification. Additionally, DoT to be notified if spill is likely to extend into WA State waters. Request DoT to provide Liaison to WEL IMT.		
As soon as practicable	CIMT IC or Delegate	Department of Climate Change, Energy, the Environment and Water (DCCEEW) Director of National Parks	Marine Park Compliance Duty Officer		The Marine Park Compliance Duty Officer is notified in the event of oil pollution within a marine park, or where an oil spill response action must be taken within a marine park, so far as reasonably practicable, prior to response action being taken. This notification should include: • titleholder details • time and location of the incident • proposed response arrangements and locations as per the OPEP • contact details for the response coordinator • confirmation of access to relevant monitoring and evaluation reports when available.	Verbal	
As soon as practicable if there is potential for oiled wildlife or the spill is expected to contact land or waters managed by WA	CIMT IC or Delegate	WA Department of Biodiversity, Conservation and Attractions (DBCA)	Duty Officer		Phone call notification	Verbal	

 $^{^{\}rm 1}\,{\rm Notification}$ to NOPSEMA must be from a Woodside Representative.

Department of Biodiversity, Conservation and Attractions							
As soon as practicable	Public Information	Relevant persons/ organisations	To be determined	To be determined	Should it be identified that additional persons such as, but not limited to, commercial fishers and tourism operators may be affected, Woodside would, at the relevant time, engage with these parties as appropriate and in alignment with the Oil Spill Preparedness and Response Mitigation Assessment (OSPRMA) for WA-61-L and WA-62-L Subsea Infrastructure Installation. Relevant persons/ organisations will be re-assessed throughout the response period.	Verbal initially	
As soon as practicable	Public Information	Relevant cultural authorities	To be determined	To be determined	Should it be identified that relevant cultural authorities may be affected, Woodside would, at the relevant time, engage with these parties as appropriate and in alignment with the Oil Spill Preparedness and Response Mitigation Assessment (OSPRMA) for WA-61-L and WA-62-L Subsea Infrastructure Installation. Relevant cultural authorities will be re-assessed throughout the response	Verbal initially	
ADDITIONAL NOTIFI	CATIONS TO BE MADE O	NI VIE CRII I IC E	DOM A VECCEI		period.		
				r		· ·	
Without delay as per protection of the Sea Act, part II, section 11(1)	Vessel Master	Australian Maritime Safety Authority (AMSA)	Response Coordination Centre (RCC)		Verbally notify AMSA RCC of the hydrocarbon spill. Follow up with a written Marine Pollution Report (POLREP) as soon as practicable following verbal notification.		
ADDITIONAL LEVEL	2/3 NOTIFICATIONS						
As soon as practicable	CIMT IC or Delegate	Australian Marine Oil Spill Centre	AMOSC Duty Manager		Notify AMOSC that a spill has occurred and follow-up with an email from the CIMT IC/ CIMT Deputy IC/ CMT Leader to formally activate AMOSC.		
		(AMOSC)			Determine what resources are required consistent with the AMOS Plan and detail in a Service Contract that will be sent to Woodside from AMOSC upon activation.		
As soon as practicable	CIMT IC or Delegate	Oil Spill Response Limited (OSRL)	OSRL Duty Manager		Contact OSRL duty manager and request assistance from technical advisor in Perth. Send the completed notification form to OSRL as soon as practicable.		
					For mobilisation of resources, send the Mobilisation Form to OSRL as soon as practicable. The mobilisation form must be signed by a nominated callout authority from Woodside. OSRL can advise the names on the call out authority list, if required.		
As soon as practicable if extra personnel are required for incident support	CIMT IC or Delegate	Marine Spill Response Corporation (MSRC)	MSRC Response Manager		Activate the contract with MSRC (in full) for the provision of up to 30 personnel depending on what skills are required. Please note that provision of these personnel from MSRC are on a best endeavours basis and are not guaranteed.	Verbal	

2. RESPONSE TECHNIQUES

Table 2-1: Response techniques

Table 2-1: Response technic					
Technique	Hydrocarbon MDO	Level	Pre- Identified Tactics	ALARP Commitment Summary	Link to Operational Plans for notification numbers and actions
Operational monitoring –tracking buoy (OM02)	Yes	ALL	If a vessel is on location, consider the need to deploy the oil spill tracking buoy. If no vessel is on location, consider the need to mobilise oil spill tracking buoys from the King Bay Supply Base (KBSB) Stockpile.	DAY 1: Tracking buoy deployed within 2 hours.	Surveillance and Reconnaissance to Detect Hydrocarbons and Resources at Risk (OM02) of The Operational Monitoring Operational Plan. Deploy tracking buoy in accordance with
			If a surface sheen is visible from the facility, deploy the satellite tracking buoy within two hours.		
Operational monitoring – predictive modelling (OM01)	Yes	ALL	Undertake initial modelling using the Rapid Assessment Oil Spill Tool and weathering fate analysis using Automated Data Inquiry for Oil Spills (ADIOS) or refer to the hydrocarbon information in APPENDIX A – Credible spill scenarios and hydrocarbon information.	DAY 1: Initial modelling within 6 hours using the Rapid Assessment Tool.	Predictive Modelling of Hydrocarbons to Assess Resources at Risk (OM01 of The Operational Monitoring Operational Plan). Planning to download immediately and follow steps
	Yes	ALL	Send Oil Spill Trajectory Modelling (OSTM) form	DAY 1:	
			to RPS Response	Detailed modelling within 4 hours of RPS Response receiving information from Woodside.	
Operational monitoring – aerial surveillance (OM02)	Yes	ALL	Instruct Aviation Unit Leader to commence aerial observations in daylight hours. Aerial surveillance observer to complete log in	DAY 1: 2 trained aerial observers.	Surveillance and Reconnaissance to Detect Hydrocarbons and Resources at Risk (OM02 of The Operational Monitoring Operational Plan).
				1 aircraft available. Report made available to the IMT within 2 hours of landing after each sortie.	Planning to download immediately and follow steps
Operational monitoring – satellite tracking (OM02)	Yes	ALL	The Situation Unit Leader should be instructed to stand up Kongsberg Satellite Services (KSAT) to provide satellite imagery of the spill (DAY 1: Service provider will confirm availability of an initial acquisition within 2 hours. Data received to be uploaded into	
				Woodside Common Operating Picture.	
Operational monitoring – monitoring hydrocarbons in	Yes	ALL	Consider the need to mobilise resources to undertake water quality monitoring (OM03).	DAY 3: Water quality assessment access and capability	Detecting and Monitoring for the Presence and Properties of Hydrocarbons in the Marine Environment (OM03 of The Operational Monitoring Operational Plan).
water (OM03)				Daily fluorometry reports will be provided to IMT.	
Operational monitoring – pre- emptive assessment of receptors at risk (OM04)	Yes	ALL	Consider the need to mobilise resources to undertake pre-emptive assessment of sensitive receptors at risk (OM04).	10 days prior to any impact predicted by OM01/02/03, and in agreement with WA DoT (for Level 2/3 incidents), deployment of 2 specialists from resource pool in establishing the status of sensitive receptors	Pre-emptive Assessment of Sensitive Receptors (OM04 of The Operational Monitoring Operational Plan).
Operational monitoring – shoreline assessment (OM05)	Yes	ALL	Consider the need to mobilise resources to undertake shoreline assessment surveys (OM05).	10 days prior to any impact predicted by OM01/02/03, and in agreement with WA DoT (for Level 2/3 incidents), deployment of 1 specialist(s) in Shoreline Contamination Assessment Techniques (SCAT) from resource pool for each of the RPAs with predicted impacts	Shoreline Assessment (OM05 of The Operational Monitoring Operational Plan).
Surface dispersant	No	N/A	This response strategy is not recommended for spills of MDO.		

Technique	Hydrocarbon	Level	Pre- Identified Tactics	ALARP Commitment Summary	Link to Operational Plans for notification numbers and
	MDO				actions
Containment and recovery	No	N/A	This response strategy is not recommended for spills of MDO.		
Mechanical dispersion	No	N/A	This response strategy is not recommended for spills of MDO.		
In-situ burning	No	N/A	This response strategy is not recommended for spills of MDO.		
Shoreline protection and deflection	No	N/A	No shoreline impacts predicted.		
Shoreline clean-up	No	N/A	No shoreline impacts predicted.		
Oiled wildlife response	Yes	ALL	If oiled wildlife is a potential impact, request AMOSC to mobilise containerised oiled wildlife first strike kits and relevant personnel. Refer to relevant Tactical Response Plan for potential wildlife at risk.		Oiled Wildlife Response Operational Plan
			Mobilise AMOSC Oiled Wildlife Containers.		
			Consider whether additional equipment is required from local suppliers.		
Scientific monitoring (type II)	Yes	ALL	Notify Woodside science team of spill event.		Oil Spill Scientific Monitoring Programme – Operational Plan

3. RESPONSE PROTECTION AREAS

Action: Provide relevant Control Agency with applicable Tactical Response Plans for any Response Protection Areas (RPAs) identified during operational monitoring.

Based on hydrocarbon spill modelling results, the sensitive receptors outlined in **Table 3-1** are identified as priority protection areas, as they have the potential to be contacted by hydrocarbon at or above impact threshold levels within 48 hours of a spill.

Table 3-1: Receptors for Priority Protection with Potential Impact within 48 Hours

1	Receptor	Distance	Minimum time to	Maximum	Tactical Response Plans
	receptor	and	shoreline	shoreline	ractical response i lans
		Direction	contact (above	accumulation	
		_	100g/m ²) in days	_	
		from	100g/III-) III days	(above 100g/m²)	
		Operational		in m ³	
		Area (km)			
ľ	Open Ocean -	Overlaps	N/A	N/A	N/A
١	Commonwealth				
-	Waters				

Hydrocarbon spill modelling results indicate the sensitive receptors listed below have the potential to be contacted by hydrocarbons beyond 48 hours of a spill:

- Open Commonwealth waters
- Gascoyne AMP (surface hydrocarbon concentrations ≥10 g/m² and entrained hydrocarbon concentrations ≥100 ppb)
- Carnarvon Canyon AMP (entrained hydrocarbon concentrations ≥100 ppb)
- Abrolhos AMP (entrained hydrocarbon concentrations ≥100 ppb)

Tactical Response plans for these locations can be accessed via the Oil Spill Portal - Tactical Response Plans and include the details of potential forward operating bases and staging areas.

Oil Spill Trajectory Modelling specific to the spill event will be required to determine the regional sensitive receptors to be contacted beyond 48 hours of a spill.

Figure 3-1 illustrates the location of regional sensitive receptors in relation to the WA-61-L and WA-62-L Subsea Infrastructure Installation Operational Area and identifies priority protection areas.

Consideration should be given to other persons/ organisations (including mariners) in the vicinity of the spill location. There are no oil and gas facilities owned or operated by other petroleum titleholders located within 50 km of the Operational Area.

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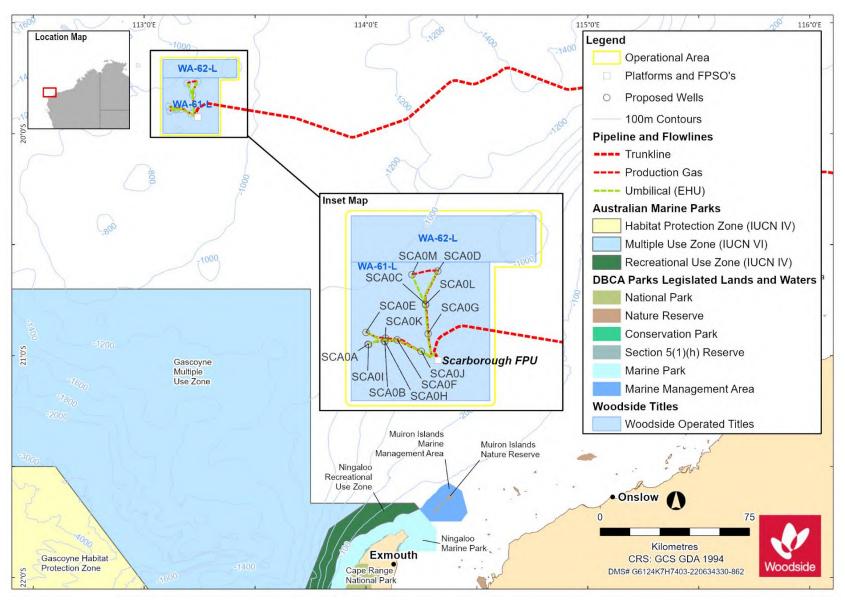


Figure 3-1: Regional sensitive receptors

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4. DISPERSANT APPLICATION

Dispersant is not considered an appropriate response strategy for this activity as described in the WA-61-L and WA-62-L Subsea Infrastructure Installation Environment Plan Appendix D (Woodside's Oil Spill Preparedness and Response Mitigation Assessment).

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APPENDIX A - CREDIBLE SPILL SCENARIOS AND HYDROCARBON INFORMATION

Table A - 1: Credible spill scenarios and hydrocarbon information

Scenario	Product	API gravity	Volume	Residue	Time to evaporation	Proportion of oil	Suggested ADIOS2 Analogue ²
CS-01 (WCCS) Unplanned	Marine diesel	37.2°	1000 m ^{3 3}	5% (50 m ³)	12 hours (BP < 180 °C)	6.0%	Diesel Fuel Oil (API 37.2°)
hydrocarbon release caused by marine vessel collision					24 hours (180 °C < BP < 265 °C)	34.6%	
(project vessel)					Several days (265 °C < BP < 380 °C)	54.4%	
CS-02 Loss of containment	Marine diesel	37.2°	55 m ³	5% (2.75 m ³)	12 hours (BP < 180 °C)	6.0%	Diesel Fuel Oil (API 37.2°)
caused by refuelling hose failure, coupling failure or operator					24 hours (180 °C < BP < 265 °C)	34.6%	
error.					Several days (265 °C < BP < 380 °C)	54.4%	

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² Initial screening of possible ADIOS2 analogues considered hydrocarbons with similar APIs. Suggested selection is based on the closest distillation cut to the Woodside hydrocarbon. Only hydrocarbons with >380°C distillation cuts were included in selection process.

³ Modelling for an instantaneous surface release of 2000 m³ MDO was available at the same field location. It was originally undertaken in 2019 and reprocessed in 2021 using NOPSEMA's contemporary modelling thresholds. The largest tank of the vessel proposed for the activity is circa 1000 m³, 50% smaller than the modelled MDO volume (2000 m³). Given that spill parameters and geographic location fall within the envelope of the existing MDO modelling, it is an appropriate surrogate and therefore additional modelling was not required.

APPENDIX B - NOTIFICATION FORMS

Table B - 1: Notification forms

No.	Form Name	Link
1	Record of initial verbal notification to NOPSEMA template	
2	NOPSEMA Incident Report Form	
3	Marine Pollution Report (POLREP – AMSA)	
4	AMOSC Service Contract	
5	Marine Pollution Report (POLREP – DoT)	
6a	OSRL Initial Notification Form	
6b	OSRL Mobilisation Activation Form	
7	RPS Response Oil Spill Trajectory Modelling Request	
8	Aerial Surveillance Observer Log	
9	Tracking buoy deployment instructions	

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FORM 1 - RECORD OF INITIAL VERBAL NOTIFICATION TO NOPSEMA



NOPSEMA phone:	7	
Date of call		
Time of call		
Call made by		
Call made to		
Information to be provided to NOP	SEMA:	
Date and time of incident/ time caller became aware of incident		
Details of incident	1. Location	
	2. Title	
	3. Source	□ Platform
		□ Pipeline
		□ FPSO
		□ Exploration drilling
		□ Well
		□ Other (please specify)
	4. Hydrocarbon type	
	5. Estimated volume	
	6. Has the discharge ceased?	
	7. Fire, explosion or collision?	
	8. Environment Plan(s)	
	9. Other Details	
Actions taken to avoid or mitigate environmental impacts		
Corrective actions taken or proposed to stop, control or remedy the incident		
After the initial call is made to NOF	SEMA, please send this record as s	oon as practicable to:
NOPSEMA		
NOPTA		
DMIRS		

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APPENDIX C - SPILL ASSESSMENT QUESTIONS

What has happened?				
Date/time				
Spill source				
Spill cause				
Safety situation				
What is it?				
Oil type and name				
Oil properties	Specific gravity			
	Viscosity			
	Pour point			
	Asphaltenes			
	Wax content			
Mhara ia i42	Boiling point			
Where is it?				
Latitude and longitude				
Distance and bearing				
Affected area	☐ Offshore			
	□ Subsea			
	□ Shoreline			
	□ Estuary			
	□ Port			
	☐ Harbour			
	□ Inland			
	River			
	☐ Other (please detail):			
Water depth				
How big is it?				
Area				
Release type	☐ Instantaneous Estimated volume:			
	☐ Continuous release Estimated release rate:			
Where it is going?				
Metocean conditions				
Currents and tides				
What is in the way?				
Resources at risk				
Time until resource contact				
What's happening to it?				
Weathering processes				
Response actions underway				

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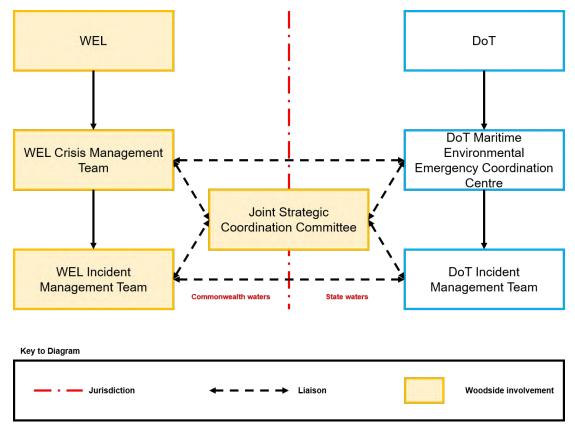
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APPENDIX D – COORDINATION STRUCTURE FOR A CONCURRENT HYDROCARBON SPILL IN BOTH COMMONWEALTH AND STATE WATERS/ SHORELINES⁴



The Control Agency for a hydrocarbon spill in Commonwealth waters resulting from an offshore petroleum activity is Woodside (the Petroleum Titleholder).

The Control Agency/HMA for a hydrocarbon spill in State waters/shorelines resulting from an offshore petroleum activity is DoT. DoT will appoint an Incident Controller and form a separate IMT to only manage the spill within State waters/shorelines.

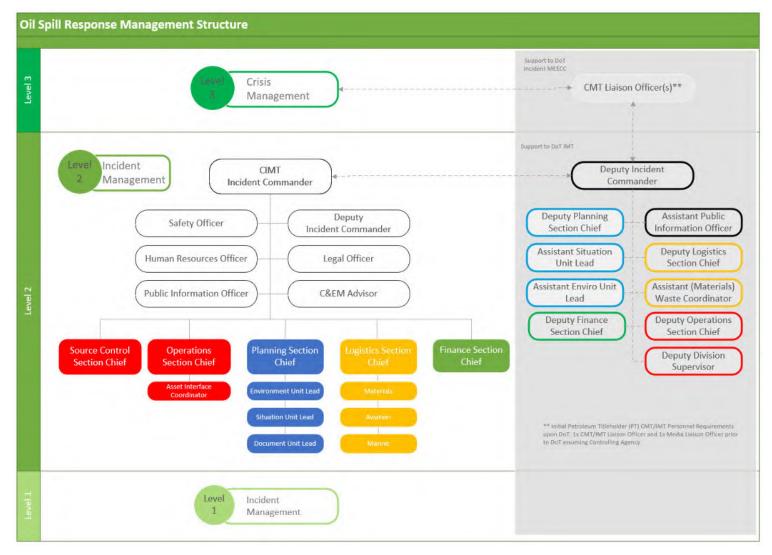
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⁴ Adapted from DoT Offshore Petroleum Industry Guidance Note, Marine Oil Pollution: Response and Consultation Arrangements July 2020. Note: For full structure up to Commonwealth Cabinet/Minister refer to Marine Oil Pollution: Response and Consultation Arrangements Section 6.5, Figure 4.

APPENDIX E – WOODSIDE INCIDENT MANAGEMENT STRUCTURE

Woodside Incident Management Structure for Hydrocarbon Spill (including Woodside Liaison Officers Command Structure within DoT IMT if required).



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APPENDIX F – WOODSIDE LIAISON OFFICER RESOURCES TO DOT

In the event that DoT is required to establish an IMT, Woodside will make available an appropriate number of appropriately qualified persons to work within the DoT IMT.

It is an expectation that Woodside's nominated CMT Liaison Officer and the Deputy Incident Controller attend the DoT Fremantle ICC as soon as possible after the formal request has been made by the SMEEC, and no later than 8am on the day following the request being formally made. For Woodside personnel designated to serve in DoT's Forward Operating Base (FOB), it is expected that they arrive at the FOB no later than 24 hours from the formal request being made by the SMEEC.

Area	Woodside Liaison Role ⁵	Key Duties	#
DoT Maritime Environmental Emergency Coordination Centre (MEECC)	CIMT Liaison	 Provide a direct liaison between the CIMT and the MEECC. Facilitate effective communications and coordination between the CIMT Leader and SMPC. Offer advice to SMPC on matters pertaining to Petroleum Titleholder (PT) crisis management policies and procedures. 	1
DoT IMT Incident Control	Deputy Incident Commander (Deputy IC)	 Provide a direct liaison between the PT IMT and DoT IMT. Facilitate effective communications and coordination between the PT IC and the DoT IC. Offer advice to the DoT IC on matters pertaining to PT incident response policies and procedures. Offer advice to the Safety Coordinator on matters pertaining to PT safety policies and procedures, particularly as they relate to PT employees or contractors operating under the control of the DoT IMT. 	1
DoT IMT Intelligence	Deputy Situation Unit Leader (Intelligence)	 As part of the Intelligence Team, assist the Intelligence Officer in the performance of their duties in relation to situation and awareness. Facilitate the provision of relevant modelling and predications from the PT IMT. Assist in the interpretation of modelling and predictions originating from the PT IMT. Facilitate the provision of relevant situation and awareness information originating from the DoT IMT to the PT IMT. Facilitate the provision of relevant mapping from the PT IMT. Assist in the interpretation of mapping originating from the DoT IMT to the PT IMT. Facilitate the provision of relevant mapping originating from the DoT IMT to the PT IMT. 	1

⁵ These positions would be mobilised, in consultation with DoT, to align to the actual spill scenario. The selected roles and/or individual personnel would be subject to continued evaluation to ensure continued 'best fit'. For CIMT roster arrangements, contact the WCC. During a prolonged response, additional personnel may be sourced through internal resourcing and mutual Aid agreements such as the AMOSC Core Group via

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Area	Woodside Liaison Role ⁵	Key Duties	#
DoT IMT Intelligence – Environment	Deputy Environment Unit Leader	 As part of the Intelligence Team, assist the Environment Coordinator in the performance of their duties in relation to the provision of environmental support into the planning process. Assist in the interpretation of the PT OPEP and relevant TRP plans. Facilitate in requesting, obtaining and interpreting environmental monitoring data originating from the PT IMT. Facilitate the provision of relevant environmental information and advice originating from the DoT IMT to the PT IMT. 	1
DoT IMT Planning-Plans/ Resources	Deputy Planning Section Chief	 As part of the Planning Team, assist the Planning Officer in the performance of their duties in relation to the interpretation of existing response plans and the development of incident action plans and related sub plans. Facilitate the provision of relevant incident action plan (IAP) and sub plans from the PT IMT. Assist in the interpretation of the PT OPEP from the PT. Assist in the interpretation of the PT IAP and sub plans from the PT IMT. Facilitate the provision of relevant IAP and sub plans originating from the DoT IMT to the PT IMT. Assist in the interpretation of the PT existing resource plans. Facilitate the provision of relevant components of the resource sub plan originating from the DoT IMT to the PT IMT. 	1
		(Note this individual must have intimate knowledge of the relevant PT OPEP and planning processes)	
DoT IMT Public Information-Media/ Community Engagement	Deputy Public Information Officer	 As part of the Public Information Team, provide a direct liaison between the PT Media team and DoT IMT Media team. Facilitate effective communications and coordination between the PT and DoT media teams. Assist in the release of joint media statements and conduct of joint media briefings. Assist in the release of joint information and warnings through the DoT Information and Warnings team. Offer advice to the DoT Media Coordinator on matters pertaining to PT media policies and procedures. Facilitate effective communications and coordination between the PT and DoT Community Liaison teams. Assist in the conduct of joint community briefings and events. Offer advice to the DoT Community Liaison Coordinator on matters pertaining to the PT community liaison policies and procedures. 	1

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Area	Woodside Liaison Role ⁵	Key Duties	#
		Facilitate the effective transfer of relevant information obtained from through the Contact Centre to the PT IMT.	
DoT IMT Logistics	Deputy Logistics Section Chief	 As part of the Logistics Team, assist the Logistics Officer in the performance of their duties in relation to the provision of supplies to sustain the response effort. Facilitate the acquisition of appropriate supplies through the PTs existing OSRL, AMOSC and private contract arrangements. Collects Request Forms from DoT to action via PT IMT. 	1
		(Note this individual must have intimate knowledge of the relevant PT logistics processes and contracts)	
DoT IMT Finance-Accounts/ Financial Monitoring	Deputy Finance Section Chief	 As part of the Finance Team, assist the Finance Officer in the performance of their duties in relation to the setting up and payment of accounts for those services acquired through the PTs existing OSRL, AMOSC and private contract arrangements. Facilitate the communication of financial monitoring information to the PT to allow them to track the overall cost of the response. Assist the Finance Officer in the tracking of financial commitments through the response, including the supply contracts commissioned directly by DoT and to be charged back to the PT. 	1
DoT IMT Operations	Deputy Operations Section Chief	 As part of the Operations Team, assist the Operations Officer in the performance of their duties in relation to the implementation and management of operational activities undertaken to resolve an incident. Facilitate effective communications and coordination between the PT Operations Section and the DoT Operations Section. Offer advice to the DoT Operations Officer on matters pertaining to PT incident response procedures and requirements. Identify efficiencies and assist to resolve potential conflicts around resource allocation and simultaneous operations of PT and DoT response efforts. 	1
DoT IMT Operations – Waste Management	Deputy Waste Coordinator (Materials)	 As part of the Operations Team, assist the Waste Management Coordinator in the performance of their duties in relation to the provision of the management and disposal of waste collected in State waters. Facilitate the disposal of waste through the PT's existing private contract arrangements related to waste management and in line with legislative and regulatory requirements. Collects Request Forms from DoT to action via PT IMT. 	1

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Area	Woodside Liaison Role ⁵	Key Duties	#
DoT FOB Operations Command	FOB Deputy Incident Commander	 As part of the Field Operations Team, assist the Division Commander in the performance of their duties in relation to the oversight and coordination of field operational activities undertaken in line with the IMT Operations Section's direction. Provide a direct liaison between the PT FOB and DoT FOB. Facilitate effective communications and coordination between the PT Division Commander and the DoT Division Commander. Offer advice to the DoT Division Commander on matters pertaining to PT incident response policies and procedures. Assist the Safety Coordinator deployed in the FOB in the performance of their duties, particularly as they relate to PT employees or contractors. Offer advice to the Safety Coordinator deployed in the FOB on matters pertaining to PT safety policies and procedures. 	1
		Total	11

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APPENDIX G - DOT LIAISON OFFICER RESOURCES TO WOODSIDE

Once DoT activates a State waters/shorelines IMT, DoT will make available the following roles to Woodside.

Area	DoT Liaison Role	Personnel Sourced from:	Key Duties	#
Woodside CMT	DoT Liaison Officer (prior to DoT assuming Controlling Agency)/ Deputy Incident Controller – State waters (after DoT assumes Controlling Agency)	DoT	 Facilitate effective communications between DoT's SMPC/ Incident Controller and the Petroleum Titleholder's appointed CMT Leader / Incident Controller. Provide enhanced situational awareness to DoT of the incident and the potential impact on State waters. Assist in the provision of support from DoT to the Petroleum Titleholder. Facilitate the provision technical advice from DoT to the Petroleum Titleholder Incident Controller as required. 	1
Woodside Public Information FST (Media Room)/ Public Information – Media	DoT Media Liaison Officer	DoT	 Provide a direct liaison between the PT Media team and DoT IMT Media team. Facilitate effective communications and coordination between the PT and DoT media teams. Assist in the release of joint media statements and conduct of joint media briefings. Assist in the release of joint information and warnings through the DoT Information & Warnings team. Offer advice to the PT Media Coordinator on matters pertaining to DoT and wider Government media policies and procedures. 	1
			Total DoT Personnel Initial Requirement to Woodside	2

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APPENDIX I MASTER EXISTING ENVIRONMENT

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Description of the Existing Environment

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1. INTRODUCTION

1.1 Purpose

This document applies, where indicated in the relevant Environment Plan, to Woodside Energy Ltd. (Woodside) activities and operations.

1.2 Scope

This document describes the existing environment within the Woodside areas of activity located in Commonwealth waters off north-western Western Australia (WA), with a focus on the North-west Marine Region (NWMR) (Figure 1-1). This document includes details of the particular and relevant values and sensitivities of the environment as required by the Commonwealth Offshore Petroleum and Greenhouse Gas Storage (Environment) Regulations 2009 in order to inform the impact and risk evaluation of Woodside's activities within the NWMR. Furthermore, the key values of the South-west Marine Region (SWMR) and the North Marine Region (NMR) are summarised to encompass areas outside the NWMR. This is with reference to the environment that may be affected (EMBA), as defined and described in individual EPs, for unplanned hydrocarbon spill risks. Additional information appropriate to the nature and scale of the impacts and risks of activities that may interact with the environment will be used to further inform impact and risk assessments and included in the Description of the Existing Environment of individual EPs.

This document is informed by a variety of resources that includes: a search of the Department of Agriculture, Water and the Environment (DAWE) Protected Matters Search Tool (PMST) for the marine bioregions (NWMR, SWMR and NMR) and the three PMST reports provided in **Appendix A**; State (WA)/Commonwealth Marine Park Management Plans, the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act) Species Profile and Threats Database (SPRAT), Part 13 statutory instruments (recovery plans, conservation advices and wildlife conservation plans for listed threatened and migratory species); and peer reviewed scientific publications, as well as Woodside and Joint Venture (JV) funded studies and other titleholder funded study findings available in the public domain.

1.3 Review and Revision

The information presented in this document is reviewed and updated, where relevant, on at least an annual basis to address any relevant changes, which includes but is not limited to the status of EPBC Act listed species, Part 13 Instruments, policies and guidelines and recently published scientific literature.

1.4 Regional Context

Where relevant, the physical, biological and social environments within the areas of interest are discussed with reference to the three marine bioregions of Australia—NWMR, SWMR and NMR (**Table 1-1**). The NWMR is the focal marine bioregion for the Description of the Existing Environment as this is currently the location of most of Woodside's activities.

Table 1-1. Description of the Marine Bioregions

Marine Bioregion	Description	
North-west	The NWMR includes all Commonwealth waters (from 3 nautical mile [nm] from the Territorial Sea Baseline [TSB] to the 200 nm Exclusive Economic Zone [EEZ] boundary) extending from the WA/Northern Territory (NT) border to Kalbarri, south of Shark Bay in WA, covering an area of approximately 1.07 million square kilometres and includes extensive areas of shallower waters on the continental shelf, as well as deep areas of abyssal plain where water depths are 5000 m or greater.	
South-west	The SWMR comprises Commonwealth waters from the eastern end of Kangaroo Island in SA to Shark Bay in WA. The region spans approximately 1.3 million square kilometres of temperate and subtropical waters and abuts the coastal waters of SA and WA.	
North	The NMR comprises Commonwealth waters from west Cape York Peninsula to the NT/WA border). The region covers approximately 625,689 square kilometres of tropical waters in the Gulf of Carpentaria and Arafura and Timor seas, and abuts the coastal waters of Queensland and the NT.	

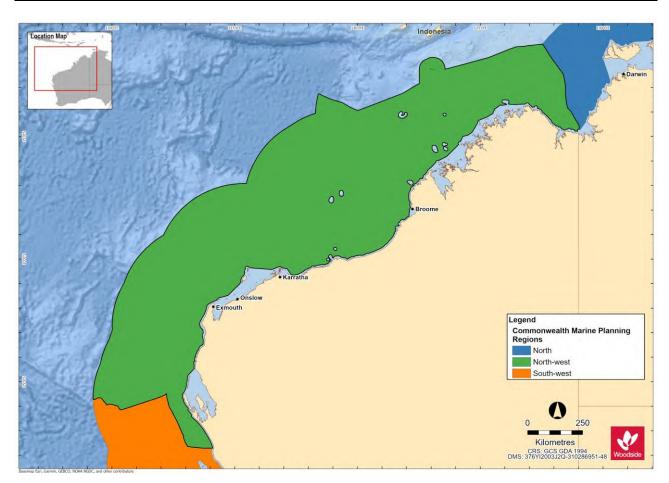


Figure 1-1. Marine Bioregions: North-west (NWMR), South-west (SWMR) and North (NMR)

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2. PHYSICAL ENVIRONMENT

2.1 Regional Context

The key physical characteristics of the NWMR, SWMR and NMR are presented in Table 2-1.

Table 2-1 Key physical characteristics of the NWMR, SWMR and NMR

Bioregion	Key Characteristics	
North-west Marine Region	The NWMR experiences a tropical monsoonal climate towards the northern extent of the region, transitioning to tropical arid and subtropical arid within the central and southern areas of the region (DSEWPAC, 2012a).	
	The NWMR is part of the Indo-Australian Basin, the ocean region between the north-west coast of Australia and the Indonesian islands of Java and Sumatra. Dominant currents in the Region include: the South Equatorial Current, the Indonesian Throughflow; the Eastern Gyral Current, and the Leeuwin Current (DEWHA, 2007a).	
	The seafloor of the NWMR consists of four general feature types: continental shelf; continental slope; continental rise; and abyssal plain and is distinguished by a range of topographic features including canyons, plateaus, terraces, ridges, reefs, and banks and shoals.	
South-west	The SWMR contains both subtropical and temperate climates, with overall light climatic cycles.	
Marine Region	The SWMR experiences complex and unusual oceanographic patterns, driven largely by the Leeuwin Current and its associated currents that have a significant influence on biodiversity distribution and abundance.	
	The major seafloor features of the SWMR include a narrow continental shelf on the west coast to the waters off south-west WA, and a wide continental shelf dominated by sandy carbonate sediments of marine origin in the Great Australian Bight, the region also contains a steep, muddy continental slope, many canyons and large tracts of abyssal plains (DSEWPAC, 2012b).	
North Marine Region	The NMR experiences a tropical monsoonal climate with complex weather cycles, including high temperatures and heavy seasonal yet variable rainfall and cyclones, which can be both destructive (loss of seagrass and mangroves) and constructive (mobilisation of sediment into coastal habitats).	
	The NMR comprises Commonwealth waters from west Cape York Peninsula to the NT–WA border, covering tropical waters in the Gulf of Carpentaria and Arafura and Timor seas. Currents in the NMR are driven largely by strong winds and tides, with only minor influences from oceanographic currents such as the Indonesian Throughflow and the South Equatorial Current (DSEWPAC, 2012c).	
	The seafloor of the NMR consists mainly of a wide continental shelf, as well as other geomorphological features such as shoals, banks, terraces, valleys, shallow canyons and limestone pinnacles.	

2.2 Marine Systems of the North-west Marine Region.

The NWMR can be divided into three large scale ecological marine systems on the basis of the influence of major ocean currents, seafloor features and eco-physical processes (e.g. climate, tides, freshwater inflow) upon the Region (DSEWPAC, 2012a). The three large scale marine systems approximate the Woodside activity areas within the NWMR (**Figure 2-1**). The key characteristics of each marine system are outlined below in **Table 2-2**.

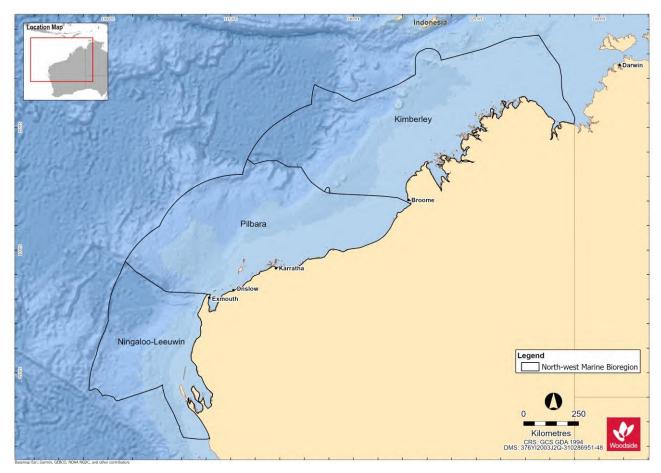


Figure 2-1. The marine systems of the North-west Marine Region (NWMR)

Table 2-2. Key characteristics of the Marine Systems of the NWMR

Note: Woodside areas align with the marine systems as described in DEWHA (2007a)

Marine System	Woodside Activity Area	Key Characteristics
Kimberley	Browse	Tropical monsoonal climate Strong influence from Indonesian Throughflow Predominantly tropical Indo-Pacific species Subject to episodic offshore cyclonic activity, rarely crossing the coast Large tidal regimes Freshwater input from terrestrial monsoonal run-off Turbid coastal waters (i.e. light limited systems) Dominated by shelf environments Predominantly hard substrates in inner to mid-shelf environments Includes a number of shelf-edge atolls (i.e. Scott Reef, Rowley Shoals)
Pilbara	North-west Shelf (NWS) / Scarborough	Tropical arid climate Transition between Indonesian Throughflow and Leeuwin Current dominated areas Predominantly tropical species High cyclone activity with frequent crossing of the coast Transitional tidal zone Internal tide activity Large areas of shelf and slope Dry coast with ephemeral freshwater inputs
Ningaloo-Leeuwin	North-west Cape	Subtropical arid climate Leeuwin Current consolidates Transitional tropical/temperate faunal area Higher water clarity in near-shore and offshore environments Narrow shelf and slope Marginal tidal range Seasonal wind forcing more dominant influence on marine environment

2.3 Meteorology and Oceanography

This section describes the general meteorological conditions and oceanography for the NWMR and provides further detail for the three Woodside activity areas. The NWMR is influenced by a complex system of ocean currents that change between seasons and between years, which generally result in its surface waters being warm and nutrient-poor, and of low salinity (DEWHA, 2007a). The mix of bathymetric features, complex topography and oceanography across the whole north-west marine environment has created and supports a globally important marine biodiversity hotspot (Wilson, 2013).

Table 2-3 NWMR climate and oceanography summary

Receptor	Description		
Meteorology			
Seasonal patterns	The NWMR associated land mass of the Australian continent is characterised as a hot and humid summer climate zone. The broader NWMR experiences variations of a tropical or monsoon climate. In the far north-west (Kimberley), there is a hot summer season from December to March and a milder winter season between April and November. The Pilbara area is described as having a tropical arid climate with high cyclone activity (DEWHA, 2007a). The Pilbara and North-west Cape has a hot summer season from October to April and a milder winter season between May and September with transition periods between the summer and winter regimes.		
Air temperature and rainfall	In summer (between September and March), maximum daily temperatures range from 31°C to 33°C. During winter (May to July), mean daily temperatures range from 18°C to 31°C (BOM¹), refer to Figure 2-2a and b . Rainfall in the region typically occurs during the summer, with highest falls observed late in the season. This is often associated with the passage of tropical low-pressure systems and cyclones.		
Wind	Wind patterns in north-west WA are dictated by the seasonal movement of atmospheric pressure systems. During summer, high-pressure cells produce prevailing winds from the north-west and south-west, which vary between 10 and 13 ms ⁻¹ . During winter, high-pressure cells over central Australia produce north-easterly to south-easterly winds with average speeds of between 6 and 8 ms ⁻¹ . Refer to Figure 2-3a and b .		
Tropical cyclones	The NWS and Pilbara coast (within the NWMR) experiences more cyclonic activity than any other region of the Australian mainland coast (BOM, 2021a). Tropical cyclone activity typically occurs between November and April and is most frequent in the region during December to March (i.e. considered the peak period), with an average of about one cyclone per month (BOM, 2021a). Refer to Figure 2-4 .		
	Oceanography		
Ocean temperature	Waters in NWMR are tropical year-round, with sea surface temperature in open shelf waters reaching ~26°C in summer and dropping to ~22°C in winter. Nearshore temperatures (as recorded for the NWS area) fluctuate more widely on an annual basis from ~17°C in winter to ~31°C in summer (Chevron Australia, 2010). Refer to Figure 2-5a and b .		
Currents	The major surface currents influencing north-west WA flow towards the poles and include the Indonesian Throughflow, the Leeuwin Current, the South Equatorial Current, and the Eastern Gyral Current. The Ningaloo Current, the Holloway Current, the Shark Bay Outflow, and the Capes Current are seasonal surface currents in the region. Below these surface currents are several subsurface currents, the most important of which are the Leeuwin Undercurrent and the West Australian Current. These subsurface currents flow towards the equator in the opposite direction to surface currents (DEWHA, 2007a). Refer to Figure 2-6 . The offshore waters of the NWMR are characterised by surface and subsurface boundary currents that flow along the continental shelf/slope and are enhanced through inflows from the ocean basins and are an important conduit for the poleward heat and mass transport along the west coast (Wijeratne <i>et al.</i> , 2018). Local physical oceanography is strongly influenced by the large-scale water movements of the Indonesian Throughflow (Liu <i>et al.</i> 2015; Sutton <i>et al.</i> 2019). Typically, a warm and well-mixed oligotrophic surface layer and a cooler and more nutrient rich, deeper water layer (Menezes <i>et al.</i> 2013).		
Waves	Sea surface waves within the NWMR, generally reflect the direction of the synoptic winds and flow predominately from the south-west in the summer and east in winter (Pearce <i>et al.</i> , 2003). The NWS within the NWMR is a known area of internal wave generation. Both internal tides and internal waves are thought to be more prevalent during summer months due to the increased stratification of the water column (DEWHA, 2007a). Along the continental slope of the NWMR, strong internal waves and interaction between semi-diurnal tidal currents and seabed topographic features facilitates upwelling events and localised productivity events (Holloway, 2001).		
Tides	Tides on the NWS (NWMR) increase as the water moves from deep towards the shallower coast. The highest offshore tides are experienced at the border of the Browse and Canning basins. The smallest tides are experienced at the Exmouth Plateau, near the coast. Tides of NWS (NWMR) are predominantly semi-diurnal (two highs and two lows each day), but with increasing importance of the diurnal (once per day) inequality at the southern and northern extremities of the NWS.		

¹ http://www.bom.gov.au/jsp/ncc/climate_averages/temperature/index.jsp, accessed 21 January 2021.

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Receptor	Description
	The tide range—represented by the Mean Spring Range (MSR)—increases northwards along the coast from 1.4 m at North-west Cape (Point Murat) to 7.7 m at Broome, before decreasing again (apart from local amplification in King Sound and Collier Bay) to about 5 m off Cape Londonderry. The MSR then increases again through Joseph Bonaparte Gulf and on up 5.5 m at Darwin (RPS, 2016).

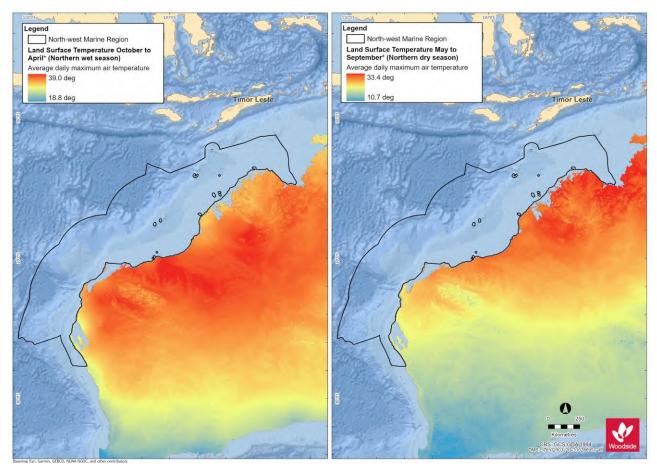


Figure 2-2. Average daily maximum air temperature for land surface adjacent to NWMR: (a) summer (northern wet season) and (b) winter (northern dry season)

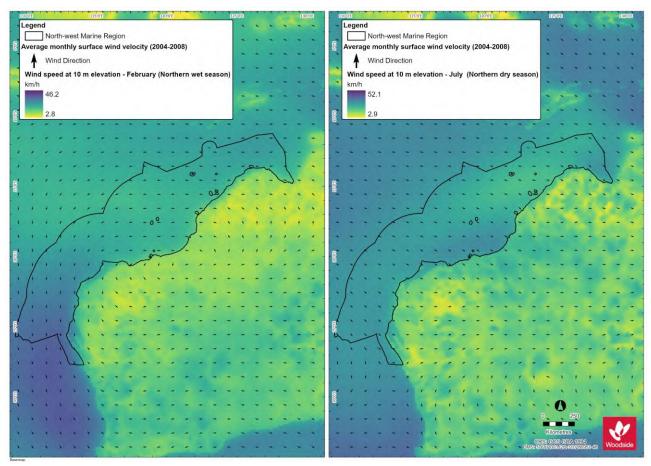


Figure 2-3. Average monthly surface wind direction and velocity for NWMR: (a) summer (February, northern wet season) and (b) winter (July, northern dry season)

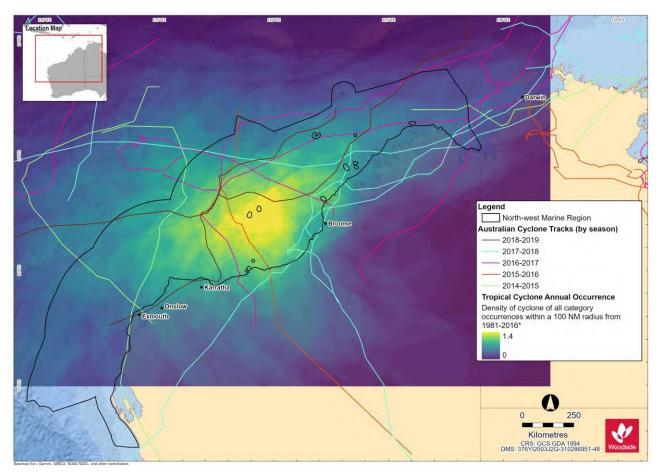


Figure 2-4. Tropical cyclone annual occurrence and cyclone tracks for NWMR

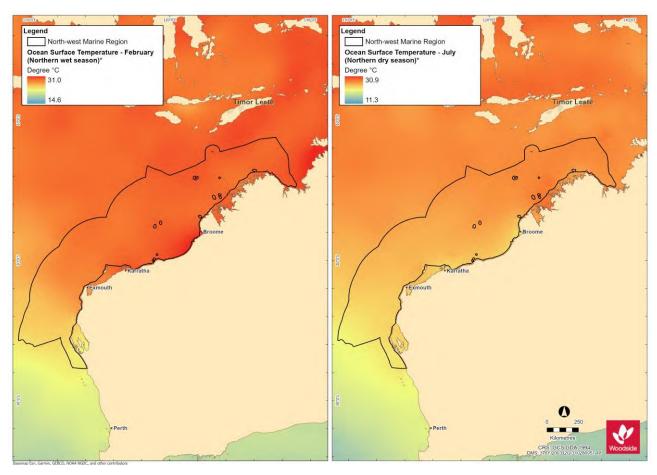


Figure 2-5. Ocean surface temperature for NWMR: (a) summer (February, northern wet season) and (b) winter (July, northern dry season)

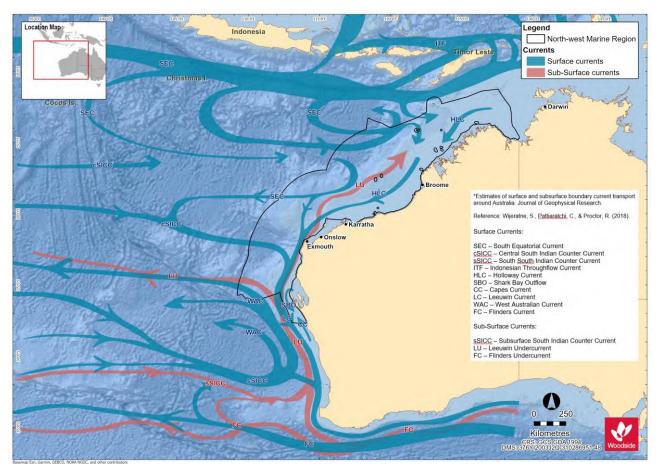


Figure 2-6. Ocean surface and sub-surface currents of the NWMR and wider region

2.3.1 **Browse**

Table 2-4 Summary meteorology and oceanography for Browse (refer to Appendix B for supporting metocean figures)

notoccan rigares)			
Receptor	Description		
	Meteorology		
Seasonal patterns	The Browse area overlapping the Kimberley marine system experiences tropical monsoon climate with two distinct seasons: the wet season from December to March and dry season from April to November.		
Air temperature	The mean annual air temperature recorded at Troughton Island between 2010 and 2020 ranged from 30.1°C in 2011 to 32.6°C in 2016 and highest mean monthly air temperatures were recorded for the months of November and December (BOM, 2021b).		
Rainfall	Rainfall recorded from Troughton Island in the Browse basin ranged from barely detectable (<1 mm) mean monthly level to >100 mm in December to March, with the highest rainfall recorded for January. Reflecting the wet monsoon season of the Kimberley marine system (BOM, 2021c).		
Wind	The dry season experiences high pressure systems that bring east to south-easterly winds with average wind speeds during the season of approximately 16.6 km/hr and maximum wind gusts of 65 km/hr. In contrast the wet season brings predominately westerly winds with average wind speeds approximately 17 km/hr and maximum gusts exceeding 100 km/hr (generally associated with tropical cyclones (MetOcean Engineers, 2005).		
	Oceanography		
Currents	Surface currents exhibit seasonal directionality, with flow to the south-west during March to June and more variable outside this period (Woodside, 2019). This is consistent with the stronger Leeuwin Current flow during winter months, with more variable currents driven by local wind stress during periods of weaker Leeuwin Current flow.		

2.3.2 North West Shelf / Scarborough

Table 2-5 Summary meteorology and oceanography for the North West Shelf and Scarborough (refer to Appendix B for supporting metocean figures)

Receptor	Description		
	Meteorology		
Seasonal patterns	The NWS and Scarborough areas experience the monsoonal climate of the wider NWMR with a distinct wet and dry seasonal regime and transitions periods between seasons.		
Air temperature	Air temperatures as measured at the North Rankin A platform on NWS ranged from a maximum average of 39.5°C in summer to a minimum average temperature of 15.6°C in winter (Woodside, 2012).		
Rainfall	Rainfall patterns annually reveal the wet season with highest rainfalls during the late summer, often associated with the passage of tropical low-pressure systems and cyclones. Rainfall in the dry season is typically extremely low. (Pearce et al. 2003).		
Wind	Winds are typically from the southwest during the wet season (summer) and tending from the south-east during the dry season (winter). The summer south-westerly winds are driven by high pressure cells that pass from west to east over the Australian continent. During the winter period, the relative position of the high-pressure cells shifts further north, leading to prevailing south-easterly winds from the mainland (Pearce <i>et al.</i> 2003).		
	Oceanography		
Currents	The large-scale ocean currents of the NWMR, primarily the Indonesian Throughflow and Leeuwin Current (and Holloway Current), are the primary influence on the NWS and Scarborough areas. The ITF and Leeuwin Current are strongest during the late summer and winter and flow reversals to the north-east, typically short-lived and weak, when there are strong south-westerly winds can generate localised upwelling on the shelf edge (Holloway and Nye, 1985; James <i>et al.</i> 2004 and Condie <i>et al.</i> 2006).		

2.3.3 North-west Cape

Table 2-6 Summary meteorology and oceanography for the North-west Cape (refer to Appendix B for supporting metocean figures)

Receptor	Description		
	Meteorology		
Seasonal patterns	The climate of the NWMR is dry tropical exhibiting a hot summer season and a mild winter season. There are often distinct transition periods between the summer and winter regimes, characterised by periods of relatively low winds.		
Air temperature	Air temperatures in the North-west Cape area range from high summer temperatures (maximum average of 37.5°C) and mild winter temperatures (minimum average of 12.2°C).		
Rainfall	Rainfall typically occurs during the summer, with highest rainfall during later summer and autumn, often associated with the passage of tropical low-pressure systems and cyclones. Rainfall is typically low in winter.		
Wind	Winds vary seasonally, generally from the south-west quadrant during summer months and the south, south-east quadrant during the autumn and winter months. The summer south-westerly winds are driven by high pressure cells that pass from west to east over the Australian continent. Winds typically weaken and are more variable during the transitional period between the summer and winter seasons, generally between April to August.		
	Oceanography		
Currents	Surface currents exhibit seasonal directionality, with flow to the south-west during March to June and more variable outside this period (Woodside, 2016). This is consistent with the stronger Leeuwin Current flow during winter months, with more variable currents driven by local wind stress during periods of weaker Leeuwin Current flow.		

2.4 Physical Environment of NWMR

Based on the Integrated Marine and Coastal Regionalisation of Australia (IMCRA) Version 4.0, there are eight provincial bioregions that occur within the NWMR, which are based on patterns of demersal fish diversity, benthic habitat and oceanographic data (Commonwealth of Australia, 2006), **Figure 2-7**. Of the eight provincial bioregions that occur within the NWMR, these include four offshore (~65% of total NWMR area) and four shelf (~35% of total NWMR area) bioregions (Baker *et al.*, 2008).

The NWMR is a tropical carbonate margin that comprises an extensive area of shelf, slope and abyssal plain/deep ocean floor, as well as complex areas of bathymetry such as plateau, terraces and major canyons (Harris *et al.*, 2005). A series of reefs are located on the outer shelf/slope of the NWMR, including Ashmore, Cartier, Scott and Seringapatam reefs (Baker *et al.*, 2008). The distribution of seafloor geomorphic features has been systematically mapped over much of the Australian margin and adjacent seafloor. The mapped area can be divided into 10 geomorphic regions, of which the NWMR overlays two; the Western Margin and Northern Margin (Harris *et al.*, 2005). Most of the region consists of either continental slope (61%) or continental shelf (28%) (DEWHA, 2007a) with more than 40% of the NWMR having a water depth less than 200 m. The shallow shelf is contrasted by features such as the Cuvier and Argo abyssal plains, which reach depths more than five kilometres. A unique feature of the region is the significant narrowing of the continental shelf around North-west Cape (approximately 7 km wide) from the broad continental shelf in the north of the region (approximately 400 km wide at Joseph Bonaparte Gulf) (DEWHA, 2007a), **Figure 2-8.**

The geological history of the region, as well as its geomorphology and oceanography, has influenced the composition and distribution of sediments (DEWHA, 2007a). The sedimentology of the NWMR is dominated by marine carbonates, which show a broad zoning and fining with water depth. Main trends of the NWMR sediments include a tropical carbonate shelf that is dominated by sand and gravel, an outer shelf/slope zone that is dominated by mud and a relatively homogenous rise and abyssal plain/deep ocean floor that is dominated by non-carbonate mud (Baker *et al.*, 2008), **Figure 2-9**.

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The distribution and resuspension of sediments on the inner shelf is strongly influenced by the strength of tides across the continental shelf as well as episodic events such as cyclones. Further offshore, on the mid to outer shelf and on the slope itself, sediment movement is primarily influenced by ocean currents and internal tides (DEWHA, 2007a).

This variation in bathymetry and interactions with oceanographic processes provides a diversity of habitats to marine fauna and flora within the NWMR.

2.5 Air quality

The ambient air quality of all three marine regions is largely unpolluted due to the extent of the open ocean area, the activities currently carried out in each and the relative remoteness of each region.

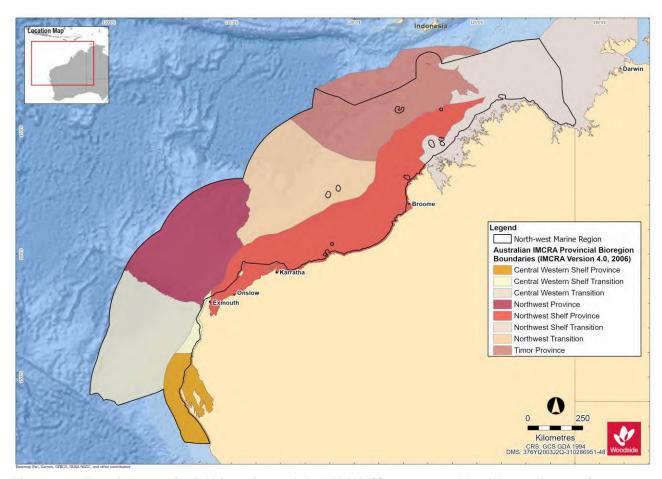


Figure 2-7. The eight provincial bioregions of the NWMR (Commonwealth of Australia, 2006)

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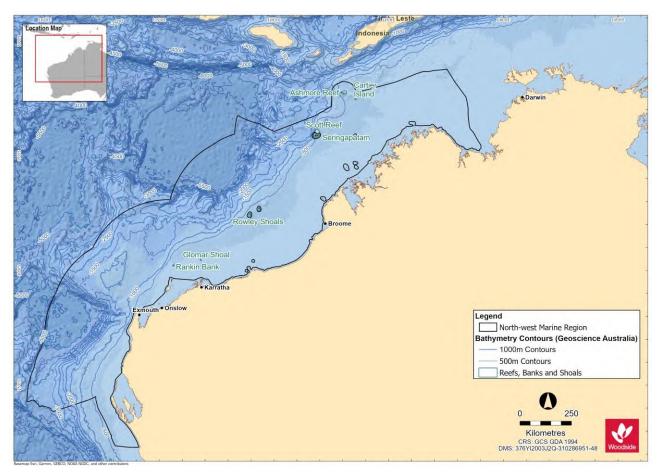


Figure 2-8. Bathymetry of the NWMR

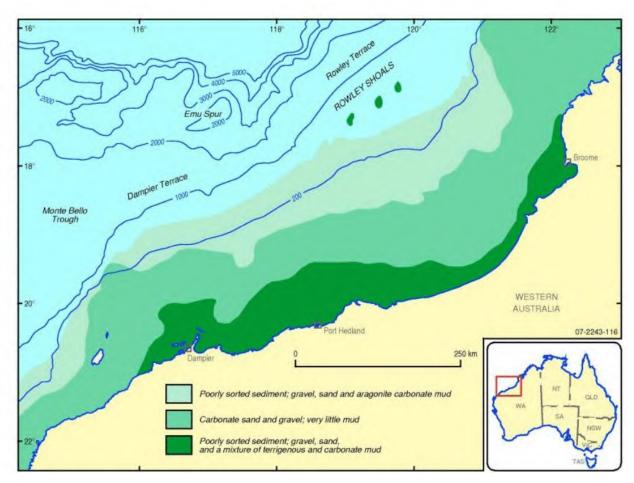


Figure 2-9. Overview of the seabed sediments of the NWMR (Baker et al., 2008)

3. MATTERS OF NATIONAL ENVIRONMENTAL SIGNIFICANCE (EPBC ACT)

3.1 Summary of Matters of National Environmental Significance (MNES)

This section summarises the matters of national environmental significance (MNES) reported for the three bioregions; NWMR (Table 3-1), SWMR (Table 3-2) and NMR (Table 3-3), based on the Protected Matters search reports (Appendix A).

Additional information on these MNES are provided in subsequent sections (referenced below).

Table 3-1 Summary of MNES identified by the EPBC Act Protected Matters Search Tool (PMST) as potentially occurring within the NWMR

MNES	Number	Description	Section of this Document
World Heritage Properties	2	Shark Bay The Ningaloo Coast	Section 10
National Heritage Places	5	Shark Bay The Ningaloo Coast The West Kimberley The Dampier Archipelago (including Burrup Peninsula) Dirk Hartog Landing Site 1616	Section 10
Wetlands of International Importance (Ramsar)	3	Ashmore Reef National Nature Reserve Eighty Mile Beach Roebuck Bay ¹	Section 10
Commonwealth Marine Area	2	EEZ and Territorial Sea Key Ecological Features (KEFs) Australian Marine Parks (AMPs) Australian Whale Sanctuary Extended Continental Shelf	Section 9 Section 10
Listed Threatened Ecological Communities	1	Monsoon vine thickets on the coastal sand dunes of Dampier Peninsula	Terrestrial community and not considered further
Listed Threatened Species	70	Refer NWMR PMST report (Appendix A)	Section 5 – Section 8
Listed Migratory Species	84	Refer NWMR PMST report (Appendix A)	Section 5 – Section 8

¹ Roebuck Bay is a designated Wetland of International Importance (Ramsar site), which was not included in the PMST Report (Appendix A).

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Table 3-2 Summary of MNES identified by the EPBC Act Protected Matters Search Tool (PMST) as potentially occurring within the SWMR

MNES	Number	Description	Section of this Document
World Heritage Properties	0	N/A	N/A
National Heritage Places	3	Cheetup Rock Shelter Batavia Shipwreck Site and Survivor Camps Area 1629 – Houtman Abrolhos HMAS Sydney II and HSK Kormoran Shipwreck Sites	Section 10
Wetlands of International Importance (Ramsar)	4	Becher Point Wetlands Forrestdale and Thomsons Lakes Peel-Yalgorup System Vasse-Wonnerup System	Section 10
Commonwealth Marine Area	2	EEZ and Territorial Sea KEFs AMPs Australian Whale Sanctuary Extended Continental Shelf	Section 9 Section 10
Listed Threatened Ecological Communities	3	Banksia Woodlands of the Swan Coastal Plain ecological community Proteaceae Dominated Kwongkan Shrublands of the Southeast Coastal Floristic Province of Western Australia Tuart (<i>Eucalyptus gomphocephala</i>) Woodlands and Forests of the Swan Coastal Plain ecological community	Terrestrial communities and not considered further
Listed Threatened Species	65	Refer SWMR PMST report (Appendix A)	N/A
Listed Migratory Species	67	Refer SWMR PMST report (Appendix A)	N/A

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Table 3-3 Summary of MNES identified by the EPBC Act Protected Matters Search Tool (PMST) as potentially occurring within the NMR

MNES	Number	Description	Section of this Document
World Heritage Properties	0	N/A	N/A
National Heritage Places	0	N/A	N/A
Wetlands of International Importance (Ramsar)	0	N/A	N/A
Commonwealth Marine Area	2	EEZ and Territorial Sea KEFs AMPs Australian Whale Sanctuary Extended Continental Shelf	Section 9 Section 10
Listed Threatened Ecological Communities	0	N/A	N/A
Listed Threatened Species	33	Refer NMR PMST report (Appendix A)	N/A
Listed Migratory Species	70	Refer NMR PMST report (Appendix A)	N/A

3.2 Part 13 Statutory Instruments for EPBC Act Listed Threatened and Migratory Species in the NWMR, SWMR and NMR

A screening process was conducted to identify which EPBC Act listed threatened and migratory species, and associated Part 13 statutory instruments, are relevant in the context of the assessment of impacts and risks associated with petroleum activities in each of the Woodside activity areas, using the following criteria:

- overlap between the Woodside activity areas with habitat critical for the survival of marine turtles, and with BIAs (overlapping the marine environment) for any listed threatened species as reported in the PMST searches;
- published literature, unpublished reports and/or credible anecdotal information (e.g. feedback from stakeholders) indicating species presence/occurrence within the Woodside activity areas;
- temporal overlap between the likely timing of petroleum activities and peak periods for key behaviours (e.g. breeding, nesting, calving, resting, foraging, migration); and
- environmental aspects associated with petroleum activities have been identified as a key threat to a species in a Part 13 statutory instrument (e.g. anthropogenic noise, light emissions, marine debris).

Relevant EPBC Act threatened and migratory species and their Part 13 statutory instruments are listed in **Table 3-4**. For the full list of EPBCA Act listed species for each marine bioregion refer to the PMST reports (**Appendix A**).

Table 3-4 Summary of MNES identified by the EPBC Act Protected Matters Search Tool (PMST) to be considered for impact or risk evaluation for Woodside operations

Species	EPBC Act Part 13 Statutory Instrument				
All vertebrate marine fauna	Threat Abatement Plan for the impacts of marine debris on vertebrate marine life (Commonwealth of Australia, 2018)				
	Marine Mammals				
Blue whale	Conservation Management Plan for the Blue Whale: A Recovery Plan under the <i>Environment Protection and Biodiversity Conservation Act</i> 1999 2015–2025 (Commonwealth of Australia, 2015a)				
Southern right whale	Conservation Management Plan for the Southern Right Whale: A Recovery Plan under the Environment Protection and Biodiversity Conservation Act 1999 2011–2021 (DSEWPAC, 2012d)				
Sei whale	Conservation Advice Balaenoptera borealis sei whale (Threatened Species Scientific Committee, 2015a)				
Humpback whale	Conservation Advice Megaptera novaeangliae humpback whale (Threatened Species Scientific Committee, 2015b)				
Fin whale	Conservation Advice Balaenoptera physalus fin whale (Threatened Species Scientific Committee, 2015c)				
Australian sea lion	Recovery Plan for the Australian Sea Lion (<i>Neophoca cinerea</i>) 2013 (DSEWPAC, 2013a) (due to expire in October 2023) Conservation Advice <i>Neophoca cinerea</i> Australian Sea Lion (Threatened Species Scientific Committee, 2020a) (in effect under the EPBC Act from 23-Dec-2020)				
	Marine Reptiles				
All marine turtle species (loggerhead, green, leatherback, hawksbill, flatback, olive ridley)	Recovery Plan for Marine Turtles in Australia 2017-2027 (Commonwealth of Australia, 2017)				
Short-nosed sea snake	Approved Conservation Advice for Aipysurus apraefrontalis (Short-nosed Sea Snake) (DSEWPAC, 2011a)				
Leaf-scaled sea snake	Approved Conservation Advice for Aipysurus foliosquama (Leaf-scaled Sea Snake) (DSEWPAC, 2011b)				
	Fishes, Sharks, Rays and Sawfishes				
Grey nurse shark (west coast population)	Recovery Plan for the Grey Nurse Shark (Carcharias taurus) 2014 (DOE, 2014)				
White shark	Recovery Plan for the White Shark (Carcharodon carcharias) 2013 (DSEWPAC, 2013b)				
Whale shark	Conservation Advice Rhincodon typus whale shark (Threatened Species Scientific Committee, 2015d)				
All sawfishes (largetooth, green, dwarf, speartooth, narrow)	Sawfish and River Sharks Multispecies Recovery Plan (Commonwealth of Australia, 2015b)				

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Species	EPBC Act Part 13 Statutory Instrument			
	Seabirds			
Migratory seabird species	Draft Wildlife Conservation Plan for Migratory Seabirds (Commonwealth of Australia, 2019)			
Southern giant petrel	National recovery plan for threatened albatrosses and giant petrels 2011–2016 (DSEWPAC, 2011c)			
Indian yellow-nosed albatross	National recovery plan for threatened albatrosses and giant petrels 2011–2016 (DSEWPAC, 2011c)			
Abbott's booby	Conservation Advice for the Abbott's booby - Papasula abbotti (Threatened Species Scientific Committee, 2020b)			
Australian fairy tern	Approved Conservation Advice for Sterna nereis nereis (Fairy Tern) (DSEWPAC, 2011d)			
Australian lesser noddy	Conservation Advice Anous tenuirostris melanops Australian lesser noddy (Threatened Species Scientific Committee, 2015e)			
Soft-plumaged petrel	Conservation Advice Pterodroma mollis soft-plumaged petrel (Threatened Species Scientific Committee, 2015f)			
	Shorebirds			
Migratory shorebird species	Wildlife Conservation Plan for Migratory Shorebirds (Commonwealth of Australia, 2015c)			
Eastern curlew, far eastern curlew	Conservation Advice <i>Numenius madagascariensis</i> eastern curlew (DOE, 2015a)			
Curlew sandpiper	Conservation Advice Calidris ferruginea curlew sandpiper (DOE, 2015b)			
Great knot	Conservation Advice Calidris tenuirostris Great knot (Threatened Species Scientific Committee, 2016a)			
Red knot, knot	Conservation Advice Calidris canutus Red knot (Threatened Species Scientific Committee, 2016b)			
Bar-tailed godwit (menzbieri)	Conservation Advice Limosa lapponica menzbieri Bar-tailed godwit (northern Siberia) (Threatened Species Scientific Committee, 2016c)			
Greater sand plover	Conservation Advice Charadrius leschenaultii Greater sand plover (Threatened Species Scientific Committee, 2016d)			
Lesser sand plover	Conservation Advice Charadrius mongolus Lesser sand plover (Threatened Species Scientific Committee, 2016e)			

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4. HABITAT AND BIOLOGICAL COMMUNITIES

4.1 Regional context

The NWMR habitats range from nearshore benthic primary producer habitats such as seagrass beds, coral communities and mangrove forests, to offshore soft sediment seabed habitats and submerged and emergent reef systems. These habitats support biological communities that range from low density sessile and mobile benthos, such as sponges, molluscs and echinoids (with noted areas of sponge hotspot diversity) in offshore soft sediment habitat (DSEWPAC, 2012a) to complex, diverse, remote coral reef systems.

Benthic primary producer habitats, such as seagrass beds, coral communities and mangrove forests within the SWMR, are described as a mixture of tropical and temperate species, due to the seasonal influences of the tropical waters carried south by the Leeuwin Current and the temperate waters carried north by the Capes Current (DSEWPAC, 2012b).

The NMR shares similar habitat types to the NWMR. The predominant habitat of the region includes soft muddy sediments on relatively flat terrain. Other habitat types include seagrasses, reefs, shoals and coastal habitats such as mangroves and coastal wetlands (Rochester *et al.*, 2007).

The summary of key habitats and biological communities provided in the following sub-sections is focused on the primary features of relevance to the activity areas within the NWMR – primarily the offshore habitats of the continental shelf and slope, submerged shoals and banks, and remote oceanic reef systems of recognised conservation value.

4.2 Biological Productivity of NWMR

Primary productivity of the NWMR is generally low and appears to be largely driven by offshore influences (Brewer *et al.*, 2007), with periodic upwelling events and cyclonic influences driving coastal productivity with nutrient recycling and advection. Seasonal weather patterns also influence the delivery of nutrients from deep-water to shallow water. Cyclones and north-westerly winds during the North-west monsoon (approximately November–March) and the strong offshore winds of the South-east monsoon (approximately April–September) facilitate the upwelling and mixing of nutrients from deep-water to shallow water environments (Brewer *et al.*, 2007).

The Indonesian Throughflow (ITF) has an important effect on productivity in the northern areas of the Region. Generally, its deep, warm and low nutrient waters suppress upwelling of deeper comparatively nutrient-rich waters, thereby forcing the highest rates of primary productivity to occur at depths associated with the thermocline. When the ITF is weaker, the thermocline lifts bringing deeper, more nutrient-rich waters into the photic zone and hence resulting in conditions favourable to increased productivity (DEWHA, 2007a). Similarly, the Leeuwin Current has a significant role in determining primary productivity in the southern areas of the NWMR. As with the ITF, the overlying warm oligotrophic waters of the Leeuwin Current suppress upwelling. A subsurface chlorophyll maximum is therefore formed at a depth in the water column where nutrients and light are sufficient for photosynthesis to proceed. Seasonal changes in the strength of the Leeuwin Current influence primary productivity levels and seasonal interactions between the Leeuwin and Ningaloo currents in the south of the NWMR are believed to be particularly important (DEWHA, 2007a).

Internal tides (defined as internal waves generated by the barotropic tide) are a striking characteristic of many parts of the NWMR and are associated with highly stratified water columns. Internal waves (solitons), which can raise cooler, generally more nutrient rich water higher in the water column, are generated between water depths of 400 m and 1000 m where bottom topography results in a significant change in water depth over a relatively short distance. Cyclones are episodic events in the NWMR that contribute to spikes in productivity through enrichment of surface water layers due to enhanced vertical mixing of the water column. Temporary increases in primary productivity as a result of cyclones generally last between one and two weeks, and it is believed that the impacts of

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cyclones are generally limited to waters less than 100 m deep and affect benthic communities more substantially than pelagic systems (DEWHA, 2007a).

Water depth also has a significant overriding influence over productivity in the marine environment, due to its influence on light availability. This is reflected by distinct onshore and offshore assemblages of major pelagic groups of phytoplankton, microzooplankton, mesoplankton and ichthyoplankton. Productivity booms are thought to be triggered by seasonal changes to physical drivers or episodic events, as detailed above, which result in rapid increases in primary production over short periods, followed by extended periods of lower primary production. The trophic systems in the NWMR are able to take advantage of blooms in primary production, enabling nutrients generated to be used by different groups of consumers over long periods (DEWHA, 2007a).

Little detailed information is available about the trophic systems in the NWMR. The utilisation of available nutrients is thought to differ between pelagic and benthic environments, influenced by water depth and vertical migration of some species groups in the water column. In the pelagic system, it is thought that approximately half of the nutrients available are utilised by microzooplankton (e.g. protozoa) with the remainder going to macro/meso-zooplankton (e.g. copepods). As primary and secondary consumers, gelatinous zooplankton (e.g. salps, coelenterates) and jellyfish are thought to play an important role in the food web, contributing a significant proportion of biomass in the marine system during and for periods after booms in primary productivity. Salps are semi-transparent, barrel-shaped marine animals that can reproduce quickly in response to bursts in primary productivity and provide a food source for many pelagic fish species (DEWHA, 2007a).

4.3 Planktonic Communities in the NWMR

The NWMR has two distinct phytoplankton assemblages; a tropical oceanic community in offshore waters and a tropical shelf community confined to the NWS (Hallegraeff, 1995). MODIS (Moderate Resolution Imaging Spectrometer) satellite datasets from the NWMR indicates that chlorophyll (and thus phytoplankton) levels are low in summer months (December to March) and higher in the winter months (Schroeder *et al.*, 2009). Low chlorophyll levels during summer months may be a result of lower plankton productivity during the wet season or lower nutrient inputs from warm surface waters dominant during summer. However, it is likely that much of the primary production is taking place below the surface, where the MODIS imagery does not penetrate (Schroeder *et al.*, 2009). The winter months are relatively cloud free and surface chlorophyll is high throughout most of the region.

Zooplankton and may include organisms that complete their lifecycle as plankton (e.g. copepods, euphausiids) as well as larval stages of other taxa such as fishes, corals and molluscs. Peaks in zooplankton such as mass coral spawning events (typically in March and April) (Rosser and Gilmour, 2008) and fish larvae abundance (CALM, 2005a) can occur throughout the year. Spatial and temporal patterns in the distribution and abundance of macro-zooplankton on the North-west Shelf are influenced by sporadic climatic and oceanographic events, with large inter-annual changes in assemblages (Wilson *et al.*, 2003). Amphipods, euphausiids, copepods, mysids and cumaceans are among the most common components of the zooplankton in the region (Wilson *et al.*, 2003).

4.3.1 **Browse**

Phytoplankton within the Browse activity area is expected to reflect the conditions of the NWMR. There is a tendency for offshore phytoplankton communities in the NWMR to be characterised by smaller taxa (e.g. bacteria), whereas shelf waters are dominated by larger taxa such as diatoms (Hanson *et al.*, 2007).

Zooplankton within the activity area may include organisms that complete their lifecycle as plankton (e.g. copepods, euphausiids) as well as larval stages of other taxa such as fishes, corals and molluscs. Peaks in zooplankton such as mass coral spawning events (typically in March and April) (Rosser and Gilmour, 2008; Simpson *et al.*, 1993) and fish larvae abundance (CALM, 2005a) can occur throughout the year.

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The influence of the Indonesian Throughflow restricts upwelling across the Kimberley System (approximately equates to the Browse activity area). However, small-scale topographically associated current movements and upwellings are thought to occur, which inject nutrients into specific locations within the system and result in 'productivity hot-spots'. Similarly, internal waves, generated at the shelf break (e.g. west of Browse Island and around submerged cliffs) play a role in making nutrients available in the photic zone. Productivity within shallow nearshore waters is driven primarily by tidal movement and terrestrial runoff whereby nutrients are mixed by tidal action and new inputs of organic matter come from the land.

4.3.2 North-west Shelf / Scarborough

Plankton communities within the NWS / Scarborough activity area are expected to reflect conditions of the NWMR. Within the Pilbara system of the NWMR (approximately equates to the NWS / Scarborough activity area). Internal tides along the NWS and Exmouth Plateau result in the drawing of deeper cooler waters into the photic zone, stirring up nutrients and triggering primary productivity. Broadly the greatest productivity within this sub-system is found around the 200 m isobath associated with the shelf break.

4.3.3 North-west Cape

Waters of the North-west Cape experience a relatively high diversity of phytoplankton groups including diatoms, coccolithophorids and dinoflagellates. During the warmer months blooms of *Trichodesmium* occur in the region, these have been observed particularly on the frontal systems around Point Murat (Heyward *et al.*, 2000).

Average Leeuwin Current phytoplankton biomass is characteristic of low productivity oceanic waters like the Indian, Pacific and Atlantic Oceans (Hanson *et al.*, 2005). However, the Canyons linking the Cuvier Abyssal Plain and Cape Range Peninsula KEF are connected to the Commonwealth waters adjacent to Ningaloo Reef, and may also have connections to Exmouth Plateau. The canyons are thought to interact with the Leeuwin Current to produce eddies inside the heads of the canyons, resulting in waters from the Antarctic intermediate water mass being drawn into shallower depths and onto the shelf (Brewer *et al.* 2007). These waters are cooler and richer in nutrients and strong internal tides may also aid upwelling at the canyon heads (Brewer *et al.* 2007). The narrow shelf width (about 10 kilometres) near the canyons facilitates nutrient upwelling and relatively high productivity. This high primary productivity leads to high densities of primary consumers, such as micro and macro-zooplankton, such as amphipods, copepods, mysids, cumaceans, euphausiids (Brewer *et al.*, 2007).

4.4 Habitats and Biological Communities in the NWMR

4.4.1 Offshore Habitats and Biological communities

The NWMR has a large area of continental shelf and continental slope, with a range of bathymetric features such as canyons, plateaus, terraces, ridges, reefs, banks and shoals. The marine environment in this region is typified by tropical to sub-tropical marine ecosystems with diverse habitats from soft sediments, canyons, remote coral reefs and limestone pavement.

The key habitats and biological communities representative of the broader NWMR are summarised in **Table 4-1**.

The key habitats and biological communities representative of the broader SWMR and NMR are summarised in **Table 4-2** and **Table 4-3**.

4.4.2 Shoreline habitats and biological communities

The NWMR encompasses offshore and coastal waters, islands and mainland shoreline habitats typified by mangroves, tidal flats, saltmarshes, sandy beaches, and smaller areas of rocky shores. Each of these shoreline types has the potential to support different flora and fauna assemblages due to the different physical factors (e.g. waves, tides, light, etc.) influencing the habitat.

The key shoreline habitats representative of the broader NWMR are summarised in **Table 4-1**.

The key shoreline habitats representative of the broader SWMR and NMR are summarised in **Table 4-2** and **Table 4-3**.

Table 4-1 Habitats and biological communities within the NWMR

Habitat/Community	Browse	NWS / Scarborough	North-west Cape	Reference
	Offshore ha	bitats and biological communit	ies	
Soft sediment with infauna	(sandy and muddy substrated communities inhabiting the such as polychaetes, and sechinoderms (starfish, cucu	a with occasional patches of coarser predominantly soft, fine sediments of tessile and mobile epifauna such as cumbers). The density of benthic fauna	ly of seabed habitats dominated by soft sediments sediments) and sparse benthic biota. The benthic the offshore habitats are characterised by infauna crustacea (shrimp, crabs and squat lobsters) and is typically lower in deep-sea sediment habitats, but the diversity of communities may be similar.	
Soft sediment with hard substrate outcropping	, in the same of t			Section 9
	Ancient Coastline at 125 m Depth Contour KEF Continental Slope Demersal Fish Communities KEF	Ancient Coastline at 125 m Depth Contour KEF Continental Slope Demersal Fish Communities KEF	Ancient Coastline at 125 m Depth Contour KEF Continental Slope Demersal Fish Communities KEF	Section 9
Coral Reef	such as fishes, crustaceans	Coral reef habitats within the NWMR have a high species diversity that includes corals, and associated reef species such as fishes, crustaceans, invertebrates, and algae. Coral reef habitats of the offshore environment of the NWMR include remote oceanic reef systems, large platform reefs, submerged banks and shoals.		
	Browse Island Scott Reef Seringapatam Reef Ashmore Reef Cartier Island Hibernia Reef	Rowley Shoals (including Mermaid Reef, Clerke Reef, Imperieuse Reef) Glomar Shoal Rankin Bank	-	Section 10
Seagrass and Macroalgae communities	Seagrass beds and benthic macroalgae reefs are a main food source for many marine species and also provide key habitats and nursery grounds (Heck Jr. et al., 2003; Wilson et al., 2010). In the northern half of Western Australia, these habitats are restricted to sheltered and shallow waters, including around offshore reef systems, due to large tidal movement, high turbidity, large seasonal freshwater run-off and cyclones.			
	Scott Reef Seringapatam Reef Ashmore Reef	Rowley Shoals (including; Mermaid Reef, Clerke Reef, Imperieuse Reef)		Section 10
Filter Feeders/ heterotrophic	Filter feeder epifauna such as sponges, ascidians, soft corals and gorgonians are animals that feed by actively filtering suspended matter and food particles from water, by passing the water over specialised filtration structures (DEWHA, 2008). Filter feeders generally live in areas that have strong currents and hard substratum, often associated with deeper environments of the shoals and banks in the offshore NWMR.			
	Lower outer reef slopes of the oceanic reef	Glomar Shoal Rankin Bank	Cape Range canyon system	Section 10

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Habitat/Community	Browse	NWS / Scarborough	North-west Cape	Reference
	systems such as Scott Reef	Ancient coastline at 125 m depth contour KEF		
Sandy Beaches	Sandy beaches are dynamic environments, naturally fluctuating in response to external forcing factors (e.g. waves, currents, etc). Sandy beaches vary in length, width and gradient, and in sediment type, composition, and grain size throughout the NWMR, being found around islands and reefs in the offshore areas of the region.			
	Browse Island Scott Reef (Sandy Islet) Ashmore Reef Cartier Island	Montebello Islands Lowendal Islands Barrow Island	Muiron Islands	Section 10
	Nearshore/coast	al habitats and biological comr	nunities	
Coral Reef	Coral reef habitats typically islands and the mainland s		WMR include the fringing reefs around coastal	
	Kimberley East Holothuria and Long reefs Bonaparte and Buccaneer Archipelagos Montgomery Reef Adele complex (Beagle, Mavis, Albert, Churchill reefs, Adele Island)	Dampier Archipelago Montebello, Lowendal and Barrow Island Groups	Ningaloo Reef Exmouth Gulf Shark Bay	Section 10
Seagrass and Macroalgae communities	habitats and nursery groun these habitats are restricte	Seagrass beds and benthic macroalgae reefs are a main food source for many marine species and also provide key habitats and nursery grounds (Heck Jr. <i>et al.</i> , 2003; Wilson <i>et al.</i> , 2010). In the nearshore areas of the NWMR, these habitats are restricted to sheltered and shallow waters due to large tidal movement, high turbidity, large seasonal freshwater run-off and cyclones. These areas include in bays and sounds and around reef and island groups		
	King Sound	Roebuck Bay Dampier Archipelago Montebello, Lowendal and Barrow Island Groups	Ningaloo Reef Exmouth Gulf Shark Bay	Section 10
Filter Feeders/ heterotrophic	Filter feeder epifauna such as sponges, ascidians, soft corals and gorgonians are animals that feed by actively filtering suspended matter and food particles from water, by passing the water over specialised filtration structures (DEWHA, 2007a). Filter feeders generally live in areas that have strong currents and hard substratum. Conversely, higher diversity infauna are mainly associated with soft unconsolidated sediment and infauna communities are considered widespread and well represented along the continental shelf and upper slopes of the NWMR. In nearshore areas of the NWMR, these species are generally found around reef systems.			
	-	Deeper habitats of Rankin Bank and Glomar Shoal	Deeper habitats of Ningaloo Reef and the protected sponge zone in the south	

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Habitat/Community	Browse	NWS / Scarborough	North-west Cape	Reference
Mangroves	gas exchange during low ti provide a nursery ground for	Mangroves grow in intertidal mud and sand, with specially adapted aerial roots (pneumatophores) that provide for gas exchange during low tide (McClatchie <i>et al.</i> , 2006). Mangrove forests can help stabilise coastal sediments, provide a nursery ground for many species of fish and crustacean, and provide shelter or nesting areas for seabirds (McClatchie <i>et al.</i> , 2006). Mangroves are confined to shoreline habitats, in nearshore areas of the NWMR.		
	Dampier Peninsula (including Carnot Bay, Beagle Bay and Pender Bay)	Pilbara Coastline (including; Ashburton River Delta, Coolgra Point, Robe River Delta, Yardie Landing, Yammadery Island and the Mangrove Islands) Montebello, Lowendal and Barrow Island Groups Roebuck Bay	Shark Bay Mangrove Bay, Cape Range Peninsula Exmouth Gulf	
Saltmarshes	Saltmarshes communities are confined to shoreline habitats and are typically dominated by dense stands of halophytic plants such as herbs, grasses, and low shrubs. The diversity of saltmarsh plant species increases with increasing latitude (in contrast to mangroves). The vegetation in these environments is essential to the stability of the saltmarsh, as they trap and bind sediments. The sediments are generally sandy silts and clays and can often have high organic material content.			
	- Eighty Mile Beach Shark Bay Roebuck Bay		Shark Bay	
Sandy Beaches	Sandy beaches are dynamic environments, naturally fluctuating in response to external forcing factors (e.g. waves, currents, etc). Sandy beaches vary in length, width and gradient, and in sediment type, composition, and grain size throughout the NWMR. Sandy beaches are important for both resident and migratory seabirds and shorebirds and can also provide an			
		important habitat for turtle nesting and breeding. They are located along many coastlines of the nearshore environments of the NWMR.		
	Cape Domett Lacrosse Island	Eighty Mile Beach Eco Beach Dampier Archipelago Inshore Pilbara Islands (Northern,	Ningaloo coast Muiron Islands Exmouth Gulf	
		Middle, and Southern)		

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Table 4-2 Habitats within the SWMR

Habitat/Community	Location
	Offshore
Soft sediment with infauna	Most of the SWMR seafloor is composed of soft unconsolidated sediments, but due to large variations in bathymetry there are marked differences in sedimentary composition and benthic assemblage structure across the region. Despite the prevalence of these habitats in the SWMR, very little is known about the composition or distribution of the region's sedimentary infauna (DEWHA, 2008b)
Soft sediment with hard substrate outcropping	A unique seafloor feature combining both soft sediment and hard substrates, including outcrops, terraces, continental slope, and escarpments.
	Perth Canyon Marine Park Ancient coastline at 90-120 m depth contour KEF
	Diamantina Fracture Zone Naturaliste Plateau
Coral Reef	To date, studies and understanding of the corals within the SWMR have concentrated on the shallow water areas in State Waters. Within the deeper Commonwealth waters of the SWMR little is known of the distribution of corals.
Filter Feeders/ heterotrophic	Filter feeder epifauna such as sponges, ascidians, soft corals and gorgonians are animals that feed by actively filtering suspended matter and food particles from water, by passing the water over specialised filtration structures (DEWR, 2007). Filter feeders generally inhabit deeper habitat (below the photic zone) that have strong currents and hard substratum
	Ancient coastline at 90-120 m depth
	Diamantina Fracture Zone
	Naturaliste Plateau
	Perth Canyon Marine Park
	South-west Corner Marine Park
	Nearshore
Coral Reef	The northern extent of the SWMR coincides loosely with the disappearance of abundant and diverse coral from coastal habitats. To the south of Shark Bay, abundant corals occur predominantly around offshore islands, with corals at inshore sites occurring in very isolated patches of non-reef coral communities, usually of reduced species richness.
	Houtman Abrolhos Islands Rottnest Island
Seagrass and Macroalgae communities	Within the SWMR, macroalgae and seagrass communities are noted for their extent, species richness and endemism. The clear waters of the region allow light to reach greater depths, with some species found at much greater depths than usual (down to 120 m) (DEWR, 2007). Of the known species there are more than 1000 species of macro-algae and 22 species of seagrass consisting of tropical and temperate species. Seagrass and macro-algae occur in areas with sheltered bays and in the inter-reef lagoons along exposed sections of the coast.
	Houtman Abrolhos Islands Jurien Marine Park
	Shoalwater Islands Marine Park
	Geographe Marine Park
	Cockburn Sound
	Rottnest Island this document may be reproduced, adapted, transmitted, or stored in any form by any process (electronic or otherwise) without the specific

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Habitat/Community	Location
	Commonwealth marine environment within and adjacent to the west-coast inshore lagoons KEF Commonwealth marine environment within and adjacent to Geographe Bay KEF Commonwealth marine environment surrounding the Recherche Archipelago KEF
Filter Feeders/ heterotrophic	Filter feeder epifauna such as sponges, ascidians, soft corals and gorgonians are animals that feed by actively filtering suspended matter and food particles from water, by passing the water over specialised filtration structures (DEWR, 2007). Filter feeders generally live in areas that have strong currents and hard substratum.
	Houtman Abrolhos Islands Recherche Archipelago
Mangroves	Mangroves grow in intertidal mud and sand, with specially adapted aerial roots (pneumatophores) that provide for gas exchange during low tide (McClatchie <i>et al.</i> , 2006). Mangrove forests can help stabilise coastal sediments, provide a nursery ground for many species of fish and crustacean, and provide shelter or nesting areas for seabirds (McClatchie <i>et al.</i> , 2006). Mangroves are confined to shoreline habitats, in nearshore areas of the SWMR.
	Houtman Abrolhos Islands
Sandy Beaches	Sandy beaches within the SWMR are important for both resident and migratory seabirds and shorebirds and can also host breeding populations of the Australian sea lion. They are found along many coastlines of the nearshore environments of the SWMR. In addition to this, beaches in the SWMR provide a variety of socio-economic values including tourism, commercial and recreational fishing, and support other recreational activities.
	Houtman Abrolhos Islands
	Marmion Marine Park
	Ngari Capes Marine Park
	Walpole and Nornalup Inlets Marine Park

Table 4-3 Habitats and Biological Communities within the NMR

Habitat/Community	Location
	Offshore habitats and biological communities
Soft sediment with infauna	Most of the offshore environment of the NMR is characterised by relatively flat expanses of soft sediment seabed. The soft sediments of the region are characterised by moderately abundant and diverse communities of infauna and mobile epifauna dominated by polychaetes, crustaceans, molluscs, and echinoderms.
Soft sediment with hard substrate outcropping	A unique seafloor feature combining both soft sediment and hard substrates, including outcrops, terraces, continental slope, and escarpments. The variability in substrate composition may contribute to the presence of unique ecosystems. Species present include sponges, soft corals and other sessile filter feeders associated with hard substrate sediments.
	Carbonate bank and terrace system of the Van Diemen Rise KEF Pinnacles of the Bonaparte Basin KEF
Coral Reef	Offshore coral reefs within the NMR is generally associated with a series of submerged shoals and banks. The shoals/banks in the region support tropical marine biota consistent with that found on emergent reef systems of the Indo West Pacific region such as Ashmore Reef, Cartier Island, Seringapatam Reef and Scott Reef (Heyward <i>et al.</i> , 1997)
	Pinnacles of the Bonaparte Basin KEF Evans Shoal Tassie Shoal Blackwood Shoal
Filter Feeders/ heterotrophic	Filter feeder epifauna such as sponges, ascidians, soft corals and gorgonians are animals that feed by actively filtering suspended matter and food particles from water, by passing the water over specialised filtration structures (DEWHA, 2007b). Filter feeders generally live in areas that have strong currents and hard substratum and typically associated with the deeper habitats of the submerged shoals and banks, and canyon features.
	Carbonate bank and terrace system of the Van Diemen Rise KEF
	Pinnacles of the Bonaparte Basin KEF
	Tributary Canyons of the Arafura Depression KEF
	Evans Shoal
	Tassie Shoal
	Goodrich Bank Nearshore
Coral Reef	Within the NMR corals occur both as reefs and in non-reef coral communities. Nearshore reefs include patch reefs and fringing reefs
Corai Reei	sparsely distributed within the region. Coral reefs within the NMR provides breeding and aggregation areas for many fish species including mackerel and snapper and offer refuges for sea snakes and apex predators such as sharks.
	Submerged coral reefs of the Gulf of Carpentaria KEF Darwin Harbour
Seagrass and Macroalgae communities	Seagrasses provide key habitats in the NMR. They stabilise coastal sediments and trap and recycle nutrients. They provide nursery grounds for commercially harvested fish and prawns and provide feeding grounds for dugongs and green turtles. Seagrass distribution in the region is largely associated with sheltered small bays and inlets including shallow waters surrounding inshore islands.
	Field Island The mainland coastline adjacent to Kakadu National Park
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Habitat/Community	Location
Filter Feeders/ heterotrophic	Filter feeder epifauna such as sponges, ascidians, soft corals, and gorgonians are animals that feed by actively filtering suspended matter and food particles from water, by passing the water over specialised filtration structures (DEWHA, 2007b). Filter feeders generally live in areas that have strong currents and hard substratum.
	Cape Helveticus
Mangroves	Mangroves grow in intertidal mud and sand, with specially adapted aerial roots (pneumatophores) that provide for gas exchange during low tide (McClatchie <i>et al.</i> , 2006). Mangroves provide habitat for waterbirds and support many commercially and recreationally important fish and crustacean species for parts of their life cycles. They buffer the coast from large tidal movements, storm surges and flooding.
	Tiwi Islands
	Darwin Harbour
	The mainland coastline adjacent to the Daly River
Sandy Beaches	Sandy beaches vary in length, width and gradient, and in sediment type, composition, and grain size throughout the NMR and are important for both resident and migratory seabirds and shorebirds. Sandy beaches can also provide an important habitat for turtle nesting. They are located along many coastlines of the nearshore environments of the islands and mainland shores of the NMR.
	Tiwi Islands
	Cobourg Peninsula
	Joseph Bonaparte Gulf

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5. FISHES, SHARKS AND RAYS

5.1 Regional Context

Western Australian waters provide important habitat for listed fishes, sharks, and rays including areas that support key life stages such as breeding, foraging, and migration routes for fish species. Pelagic and demersal fishes occupy a range of habitats throughout each of the regions, from coral reefs to open offshore waters, and are an extremely important component of ecosystems, providing a link between primary production and higher predators, with many species being of conservation value and important for commercial and recreational fishing.

The fish fauna in the NWMR is diverse. Of the approximately 500 shark species found worldwide, 94 are found in the region (DEWHA, 2008). Approximately 54 species of syngnathids (seahorses, seadragons, pipehorses and pipefishes) and one species of solenostomids (ghostpipefishes) are also known to occur in the NWMR or adjacent State waters (DSEWPAC, 2012a).

The fish fauna of the SWMR includes more than 900 species occupying a large variety of habitats. However, only three species of bony fishes known to occur in the region are listed under the EPBC Act as threatened or marine species, and seven listed species of shark (DSEWPAC, 2012b).

The NMR is considered an important area for the sawfish and river shark species group, with five species of sawfishes and river sharks listed under the EPBC Act known to occur in the region (DSEWPAC, 2012c). Approximately 28 species of syngnathids and two species of solenostomids are listed marine and known to occur in the NMR, however there is a paucity of knowledge on the distribution, relative abundance and habitats of these species in the region (DEWHA, 2008).

The following sections focus on the fish species (including sharks and rays) listed as threatened or migratory that are known to occur within the NWMR. In addition, listed, conservation dependent fish and shark species for the NWMR are described. A detailed account of commercial and recreational fisheries that operate in the region is provided in **Section 11**.

Table 5-1 outlines the threatened and migratory fish species that may occur within the NWMR, with their conservation status and relevant recovery plans and/or conservation advice. **Table 5-2** provides information for species of fish that are listed as conservation dependent that may occur within the NWMR, NMR and SWMR. Note that currently there are no approved Conservation Advices in place for any of these five species.

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Table 5-1 Fish species (including sharks and rays) identified by the EPBC Act PMST for the NWMR

Species Name	Common Name	Environment Protection and Biodiversity Conservation Act 1999		Conservation Act	EPBC Act Part 13 Statutory Instrument	
		Threatened Status	Migratory Status	Listed	Conservation Status	
Rhincodon typus	Whale shark	Vulnerable	Migratory	Marine	Other specially protected fauna	Conservation Advice <i>Rhincodon typus</i> whale shark. (Threatened Species Scientific Committee, 2015d)
Carcharias taurus	Grey nurse shark (west coast population)	Vulnerable	N/A	Marine	Vulnerable	Recovery Plan for the Grey Nurse Shark (<i>Carcharias taurus</i>) (DOE, 2014a)
Carcharodon carcharias	White shark	Vulnerable	Migratory	Marine	Vulnerable	Recovery Plan for the White Shark (Carcharodon carcharias) (DSEWPAC, 2013b)
Isurus oxyrinchus	Shortfin mako	N/A	Migratory	Marine	N/A	N/A
Isurus paucus	Longfin mako	N/A	Migratory	Marine	N/A	N/A
Lamna nasus	Porbeagle shark Mackerel shark	N/A	Migratory	Marine	N/A	N/A
Carcharhinus Iongimanus	Oceanic whitetip shark	N/A	Migratory	Marine	N/A	N/A
Anoxypristis cuspidata	Narrow sawfish	N/A	Migratory	Marine	N/A	N/A
Pristis clavata	Dwarf sawfish	Vulnerable	Migratory	Marine	Priority	Sawfish and River Sharks Multispecies Recovery Plan
Pristis pristis	Largetooth (Freshwater) sawfish	Vulnerable	Migratory	Marine	Priority	(Commonwealth of Australia, 2015b)
Pristis zijsron	Green sawfish	Vulnerable	Migratory	Marine	Vulnerable	
Glyphis garricki	Northern river shark	Endangered	N/A	Marine	Priority	
Manta alfredi	Reef manta ray	N/A	Migratory	Marine	N/A	N/A
Manta birostris	Giant manta ray	N/A	Migratory	Marine	N/A	N/A

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Table 5-2 EPBC Act listed Conservation Dependent species of fishes and sharks that may occur in the NWMR, NMR and SWMR

Species Name	Common Name	Likely Occurrence / Distribution	Listing Advice
Hoplostethus atlanticus	Orange roughy, Deep-sea perch, Red roughy	SWMR	No conservation listing advice for this species. Refer to the Marine bioregional plan for the SWMR (DSEWPAC, 2012b) for further information
Thunnus maccoyii	Southern bluefin tuna	NWMR and SWMR	Threatened Species Scientific Committee (2010)
Sphyrna lewini	Scalloped hammerhead	NWMR, NMR and SWMR	Threatened Species Scientific Committee (2018)
Centrophorus zeehaani	Southern dogfish, Endeavour dogfish, Little gulper shark	SWMR	Threatened Species Scientific Committee (2013)
Galeorhinus galeus	School shark, Eastern school shark, Snapper shark, Tope, Soupfin shark	SWMR	Threatened Species Scientific Committee (2009)

5.2 Protected Sharks, Sawfishes and Rays in the NWMR

The EPBC Act Protected Matters search (**Appendix A**) identified seven species of shark and five species of river shark or sawfish listed as threatened and/or migratory within the NWMR. In addition, two species of ray (the reef manta ray and giant manta ray) are listed as migratory within the region (refer **Table 5-2**).

5.2.1 Sharks and Sawfishes

The shark species known to occur within the NWMR include: the whale shark, grey nurse shark, white shark, shortfin make, and longfin make (**Table 5-2**).

Five species of river shark or sawfish known to occur in the NWMR and include: the narrow sawfish, northern river shark, freshwater sawfish, green sawfish and dwarf sawfish (**Table 5-2**).

There are identified BIAs within the NWMR for the whale shark, freshwater sawfish, green sawfish, and dwarf sawfish (refer **Section 5.3.2**).

Table 5-2 Information on the threatened shark and sawfish species within the NWMR

Species	Preferred Habitat and Diet	Habitat Location
Whale shark	Preferred habitat: They have a widespread distribution in tropical and warm temperate seas, both oceanic and coastal (Last and Stevens, 2009). The species is widely distributed in Australian waters. Diet: Whale sharks are planktivorous sharks and feed on a variety of planktonic organisms including krill, jellyfish, and crab larvae (Last and Stevens, 2009).	Ningaloo Reef is the main known aggregation site for whale sharks in Australian waters and has the largest density of whale sharks per kilometre in the world (Martin, 2007). Refer Table 5-3 for the BIA summary for the whale shark.
Grey nurse shark (west coast population)	Preferred habitat: Most commonly found in temperate waters on, or close to, the bottom of the continental shelf, from close inshore to depths of about 200 m (McAuley, 2004). Diet: A variety of teleost and elasmobranch fishes and some cephalopods (Gelsleichter <i>et al.</i> , 1999; Smale, 2005).	Details of movement patterns of the western sub-population are unclear (McAuley, 2004) and key aggregation sites have not been formally identified within the NWMR (Chidlow et al., 2006). The NWMR represents the northern limit of the west coast population.

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Species	Preferred Habitat and Diet	Habitat Location
White shark	Preferred habitat: The species typically occurs in temperate coastal waters between the shore and the 100 m depth contour; however, adults and juveniles have been recorded diving to depths of 1000 m (Bruce et al., 2006; Bruce, 2008). Diet: Smaller white sharks (less than 3 m in length) feed primarily on teleost and elasmobranch fishes, broadening their diet as larger sharks to include marine mammals (Last and Stevens, 2009).	There are no known aggregation sites for white sharks in the NWMR, and this species is most often found south of North-west Cape, in low densities (DSEWPAC, 2012a). Given the migratory nature of the species, most likely has a broad distribution within the NWMR. No BIAs identified for NWMR.
Shortfin mako	Preferred habitat: The shortfin mako shark is a pelagic species with a circumglobal, wide-ranging oceanic distribution in tropical and temperate seas (Mollet <i>et al.</i> , 2000). Tagging studies indicate shortfin makos spend most of their time in water less than 50 m deep but with occasional dives up to 880 m (Abascal <i>et al.</i> , 2011; Stevens <i>et al.</i> , 2010). Diet: Feeds on a variety of prey, such as teleost fishes, other sharks, marine mammals, and marine turtles (Campana <i>et al.</i> , 2005).	Given the migratory nature of the species, most likely has a broad distribution within the NWMR. No BIAs identified for NWMR.
Longfin mako	Preferred habitat: A pelagic species with a wideranging oceanic distribution in tropical and temperate seas (Mollet <i>et al.</i> , 2000). Diet: Primarily teleost fishes and cephalopods (primarily squid) (Last and Stevens, 2009).	Records on longfin make sharks are sporadic and their complete geographic range is not well known (Reardon <i>et al.</i> , 2006). Given the migratory nature of the species, most likely has a broad distribution within the NWMR. No BIAs identified for NWMR.
Mackerel/Porbeagle shark	Preferred habitat: The porbeagle shark primarily inhabits offshore waters around the edge of the continental shelf. They occasionally move into coastal waters, but these movements are temporary (Campana and Joyce, 2004; Francis <i>et al.</i> , 2002). The porbeagle shark is known to dive to depths exceeding 1300 m (Campana <i>et al.</i> , 2010; Saunders <i>et al.</i> , 2011). Diet: Primarily teleost fish, elasmobranchs, and cephalopods (primarily squid) (Joyce <i>et al.</i> , 2002; Last and Stevens, 2009).	In Australia, the species occurs in waters from southern Queensland to south-west Australia (Last and Stevens, 2009). Distribution within the NWMR is unknown, but there are several records for this species on the NWS in the Atlas of Living Australia (ALA).
Oceanic whitetip shark	Preferred habitat: The oceanic whitetip shark is globally distributed in warm-temperate and tropical oceans (Andrzejaczek et al., 2018). The species may occur in tropical and sub-tropical offshore and coastal waters around Australia. They primarily occupy pelagic waters in the upper 200 m of the water column; however, they have been observed diving to depths of around 1000 m, potentially associated with foraging behaviour (Howey-Jordan et al., 2013; D'Alberto et al., 2017). The species is highly migratory, travelling large distances between shallow reef habitats in coastal waters and oceanic waters (Howey-Jordan et al., 2013). The species does exhibit a strong preference for warm and shallow waters above 120 m. Diet: Opportunistic feeders and generally target a variety of finfishes and pelagic squid, depending on habitat. Target pelagics such as tuna in open ocean as noted by the large bycatch numbers in the long line fisheries.	Given the migratory nature of the species, most likely has a broad distribution within the NWMR. No BIAs identified for NWMR.

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Species	Preferred Habitat and Diet	Habitat Location
Narrow sawfish	Preferred habitat ¹ : Shallow coastal, estuarine, and riverine habitats, however it may occur in waters up to 40 m deep (D'Anastasi <i>et al.</i> , 2013). Diet: Shoaling fishes, such as mullet, as well as molluscs and small crustaceans (Cliff and Wilson, 1994).	Shallow coastal waters of the Pilbara and Kimberly coasts (Last and Stevens, 2009).
Northern river shark	Preferred habitat¹: Rivers, tidal sections of large tropical estuarine systems and macrotidal embayments, as well as inshore and offshore marine habitats (Pillans <i>et al.</i> , 2009; Thorburn and Morgan, 2004). Adults have been recorded only in marine environments. Juveniles and sub-adults have been recorded in freshwater, estuarine and marine environments (Pillans <i>et al.</i> , 2009). Diet: Variety of fish and crustaceans (Stevens <i>et al.</i> , 2005)	Within the NWMR records have come from both the west and east Kimberley, including King Sound, the Ord and King rivers, West Arm of Cambridge Gulf and also from Joseph Bonaparte Gulf (Thorburn and Morgan, 2004; Stevens et al., 2005; Thorburn, 2006; Field et al., 2008; Pillans et al., 2008, Whitty et al., 2008; Wynen et al., 2008).
Largetooth (Freshwater) sawfish	Preferred habitat: Sandy or muddy bottoms of shallow coastal waters, estuaries, river mouths and freshwater rivers, and isolated water holes. Diet: Shoaling fishes, such as mullet, as well as molluscs and small crustaceans (Cliff and Wilson, 1994).	Refer Table 5-3 for the BIA summary for the freshwater sawfish.
Green sawfish	Preferred habitat ¹ : Inshore coastal environments including estuaries, river mouths, embayments, and along sandy and muddy beaches, as well as offshore marine habitat (Stevens <i>et al.</i> , 2005; Thorburn <i>et al.</i> , 2003). Diet: Schools of baitfish and prawns (Poganoski <i>et al.</i> , 2002), molluscs and small crustaceans (Cliff and Wilson, 1994).	Refer Table 5-3 for the BIA summary for the green sawfish.
Dwarf sawfish	Preferred habitat ¹ : Shallow (2 to 3 m) silty coastal waters and estuarine habitats, occupying relatively restricted areas and moving only small distances (Stevens <i>et al.</i> , 2008) Diet: Shoaling fish such as mullet, molluscs, and small crustaceans (Cliff and Wilson, 1994).	Refer Table 5-3 for the BIA summary for the dwarf sawfish.

¹ Preferred habitat as described within the Sawfish and River Sharks Multispecies Recovery Plan (Commonwealth of Australia, 2015b).

5.2.2 **Rays**

Rays are commonly found in the NWMR. Two listed and migratory species of ray known to occur within the NWMR: the reef manta ray and giant manta ray.

No BIAs for either the reef or giant manta ray species have been identified in the NWMR.

Table 5-3 Information on migratory ray species within the NWMR

Preferred Habitat and Diet	Habitat Location
Preferred habitat: The reef manta ray is commonly sighted within productive nearshore environments, such as island groups, atolls or continental coastlines. However, the species has also been recorded at offshore coral reefs, rocky reefs, and seamounts (Marshall <i>et al.</i> , 2009). Diet: Feed on planktonic organisms including krill and crab larvae.	A resident population of reef manta rays has been recorded at Ningaloo Reef. No BIAs identified for NWMR.
Preferred habitat: The species primarily inhabits near-shore environments along productive coastlines with regular upwelling, but they appear	The Ningaloo Coast is an important area for giant manta rays from March to August (Preen <i>et al.</i> , 1997).
	Preferred habitat: The reef manta ray is commonly sighted within productive nearshore environments, such as island groups, atolls or continental coastlines. However, the species has also been recorded at offshore coral reefs, rocky reefs, and seamounts (Marshall <i>et al.</i> , 2009). Diet: Feed on planktonic organisms including krill and crab larvae. Preferred habitat: The species primarily inhabits near-shore environments along productive

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Species	Preferred Habitat and Diet	Habitat Location
	to be seasonal visitors to coastal or offshore sites including offshore island groups, offshore pinnacles and seamounts (Marshall <i>et al.</i> , 2011). Diet: Feed on planktonic organisms including krill and crab larvae.	No BIAs identified for NWMR.

5.3 Fish, Shark and Sawfish Biological Important Areas in the NWMR

A review of the National Conservation Values Atlas identified Biologically Important Areas (BIAs) for four species of shark and sawfish (whale shark, freshwater sawfish, green sawfish and dwarf sawfish) within the NWMR. The BIAs for the whale shark and the sawfish species include foraging, nursing and pupping areas. These are described in **Table 5-4**.

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Table 5-4 Fish, whale shark and sawfish BIAs within the NWMR

Species	Woodside Activity Area		BIAs			
	Browse	NWS/S	NWC	Pupping	Nursing	Foraging
Whale shark	√	✓	✓	No pupping BIA identified within the NWMR	No nursing BIA identified within the NWMR	Foraging (high density) in Ningaloo Marine Park and adjacent Commonwealth waters (March–July) Foraging northward from Ningaloo along the 200 m isobath (July – Nov).
Green sawfish	✓	✓	-	Pupping in Cape Keraudren (pupping occurs in summer in a narrow area adjacent to shoreline) Pupping in Willie Creek Pupping in Roebuck Bay Pupping in Cape Leveque Pupping in waters adjacent to Eighty Mile Beach Pupping (likely) in Camden Sound.	Nursing in Cape Keraudren Nursing in waters adjacent to Eighty Mile Beach	Foraging in Cape Keraudren Foraging in Roebuck Bay Foraging in Cape Leveque Foraging in Camden Sound
Largetooth (freshwater) sawfish	✓	√	-	Pupping in the mouth of the Fitzroy River (January to May) Roebuck Bay (Jan – May) Pupping likely in waters adjacent to Eighty Mile Beach	Nursing (likely) in King Sound Roebuck Bay (Jan – May)	Foraging in the mouth of the Fitzroy River (January to May) Foraging in King Sound Roebuck Bay (Jan – May) Foraging in waters adjacent to Eighty Mile Beach
Dwarf sawfish	√	√	-	Pupping in King Sound Pupping in waters adjacent to Eighty Mile Beach	Nursing in King Sound Nursing waters adjacent to Eighty Mile Beach	Foraging in King Sound Foraging in Camden Sound Foraging in waters adjacent to Eighty Mile Beach

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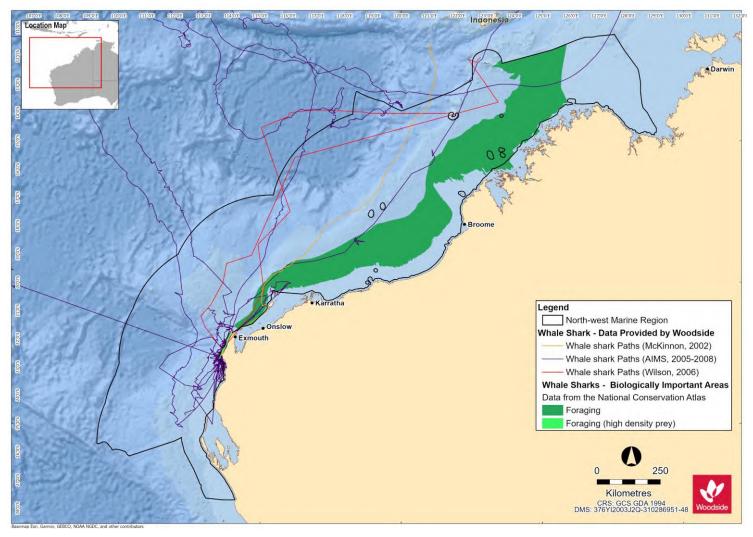


Figure 5-1 Whale shark BIAs for the NWMR and tagged whale shark tracks

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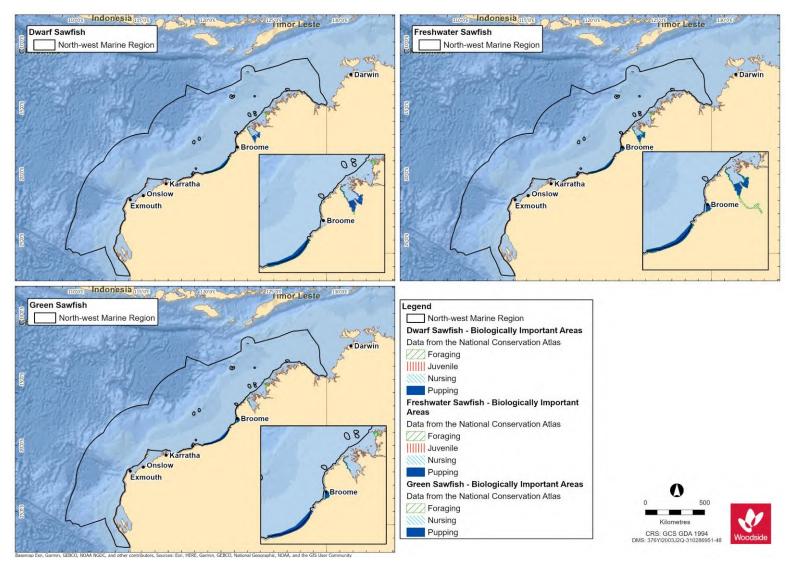


Figure 5-2 Sawfish BIAs for the NWMR

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5.4 Fish Assemblages of the NWMR

5.4.1 Regional Context for Fish Assemblages of NWMR

The NWMR contains a diverse range of fishes of tropical Indo-west Pacific affinity (Allen *et al.*, 1988). The region is characterised by the highest level of endemism and species diversity compared with other areas of the Australian continental slope. Last *et al.* (2005) recorded 1431 species from the three bioregions encompassing the continental slope, whilst also acknowledging some information gaps.

The NWMR is known for its demersal slope fish assemblages; the continental slope of the Timor Province and the North-west Transition supports more than 418 and 505 species of demersal fishes respectively, of which 64 are considered to be endemic. This is the second richest area for demersal fish species across the entire Australian continental slope. Conversely, the broad Southern Province, which covers most of southern Australia, supports 463 species, only 26 possibly being endemic. The continental slope demersal fish assemblages of the NWMR have been identified as a KEF (DEWHA, 2008), as described in **Section 9**.

The NWMR also features a diversity of pelagic fishes (those living in the pelagic zone) and benthopelagic fishes, including tuna, billfish, bramids, lutjanids, serranids and some sharks (DEWHA, 2007a). These species feed on salps and jellyfish, and more often on secondary consumers such as squid and bait fish. Water depth provides an indication of the level of interaction between pelagic and benthic communities within the NWMR; in waters deeper than 1000 m, for instance, the trophic system is pelagically-driven and benthic communities rely on particulates that fall to the seafloor (DEWHA, 2007a).

Pelagic fishes play an important ecological role within the NWMR; small pelagic fishes, such as lantern fish, inhabit a range of marine environments, including inshore and continental shelf waters and form a vital link in and between many of the region's trophic systems, feeding on pelagic phytoplankton and zooplankton and providing a food source for a wide variety of predators including large pelagic fishes, sharks, seabirds and marine mammals (Bulman, 2006; Mackie *et al.*, 2007). Large pelagic fishes, such as tuna, mackerel, swordfish, sailfish and marlin, are found mainly in oceanic waters and occasionally on the continental shelf (Brewer *et al.*, 2007). Both juvenile and adult phases of the large pelagic species are highly mobile and have a wide geographic distribution, although the juveniles more frequently inhabit warmer or coastal waters (DEWHA, 2008).

5.4.2 Listed Fish Species in the NWMR

The family Syngnathidae is a group of bony fishes that includes seahorses, pipefishes, pipehorses and seadragons. Along with syngnathids, members of the related Solenostomidae family (ghost pipefishes) are also found in the NWMR (DSEWPAC, 2012a).

There are 44 solenostomid and syngnathid species that are listed marine species that may occur within the NWMR, although no species is currently listed as threatened or migratory, according to the PMST report (**Appendix A**).

Syngnathids live in nearshore and inner shelf habitats, usually in shallow coastal waters, among seagrasses, mangroves, coral reefs, macroalgae dominated reefs, and sand or rubble habitats (Dawson, 1985; Lourie *et al.*, 1999, Lourie *et al.*, 2004; Vincent, 1996). Two species, the winged seahorse (*Hippocampus alatus*) and western pipehorse (*Solegnathus sp. 2*) have been identified in deeper waters of the NWMR (up to 200 m) (DSEWPAC, 2012a), however, these species were not identified by the Protected Matters search of the NWMR.

Knowledge about the distribution, abundance and ecology of both syngnathids and solenostomids in the NWMR is limited. No BIAs for syngnathids and solenostomids have been identified in the NWMR.

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5.4.3 Browse

The proposed Browse activity area includes biologically important habitat for the whale shark and three sawfish species:

- whale shark (foraging northward from Ningaloo along the 200 m isobath (July Nov),
- freshwater sawfish (pupping, nursing and foraging areas),
- green sawfish (pupping, nursing and foraging areas); and
- dwarf sawfish (pupping, nursing and foraging areas).

BIAs for the shark and sawfish species are outlined in Table 5-4 and Figure 5-1.

The proposed Browse activity area has partial overlap with the Continental slope demersal fish communities KEF.

5.4.4 NWS / Scarborough

The NWS / Scarborough activity area includes biologically important habitat for the whale shark and three sawfish species:

- whale shark (foraging northward from Ningaloo along the 200 m isobath (July Nov),
- freshwater sawfish (pupping, nursing and foraging areas),
- green sawfish (pupping, nursing and foraging areas); and
- dwarf sawfish (pupping, nursing and foraging areas).

BIAs for the whale shark and sawfish species are outlined in **Table 5-4** and **Figure 5-1**.

The NWS / Scarborough activity area has partial overlap with the Continental slope demersal fish communities KEF. The continental slope between North-west Cape and the Montebello Trough has more than 500 fish species, 76 of which are endemic, which makes it the most diverse slope bioregion in Australia (Last *et al.*, 2005).

5.4.5 North-west Cape

The North-west Cape activity area includes biologically important foraging habitat for the whale shark:

- whale shark, including:
 - Foraging (high density) in Ningaloo Marine Park and adjacent Commonwealth waters (March–July); and
 - Foraging northward from Ningaloo along the 200 m isobath (July Nov).

BIAs for the whale shark are outlined in **Table 5-4** and **Figure 5-1**.

The North-west Cape activity area coincides with part of the Continental slope demersal fish communities KEF.

6. MARINE REPTILES

6.1 Regional Context for Marine Reptiles

The NWMR contains important habitat for listed marine reptiles, including areas that support key life stages such as nesting, internesting, migration and foraging for marine turtle species, and habitats supporting resident sea snake and crocodile populations.

Six of the seven marine turtle species occur in Australian waters, and all six (the green turtle, hawksbill turtle, loggerhead turtle, flatback turtle, leatherback turtle and olive ridley turtle) occur in the NWMR and NMR.

There are 25 listed species of sea snake reported within or adjacent to the NWMR (Guinea, 2007a; Udyawer *et al.*, 2016), of which four are endemic to reef habitats in the remote parts of the region. Nineteen (19) listed sea snake species are known to occur in the NMR, as reported in the Protected Matters search (**Appendix A**).

There are significantly fewer marine reptile species that frequently occur within the SWMR and presently include three species of listed marine turtle and one sea snake species. Other species of sea snake may occur because of the southward-flowing Leeuwin Current, as vagrants in the region (DSEWPAC, 2012b).

The following sections focus on the listed marine reptile species known to occur within the NWMR.

Table 6-1 outlines the threatened and migratory marine reptile species that occur within the NWMR, with their conservation status and relevant recovery plans and/or conservation advice.

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Table 6-1 Marine reptile species identified by the EPBC Act PMST as potentially occurring within or utilising habitats in the NWMR for key life cycle stages

Species Name Common Name		Environment Biodiversity Con	Protection all Protection Ac		WA Biodiversity Conservation Act 2016	EPBC Act Part 13 Statutory
Hame		Threatened Status	Migratory Status	Listed	Conservation Status	motiument
Caretta caretta	Loggerhead turtle	Endangered	Migratory	Marine	Endangered	
Chelonia mydas	Green turtle	Vulnerable	Migratory	Marine	Vulnerable	
Dermochelys coriacea	Leatherback turtle	Endangered	Migratory	Marine	Vulnerable	Recovery Plan for Marine Turtles in
Eretmochelys imbricata	Hawksbill turtle	Vulnerable	Migratory	Marine	Vulnerable	Australia 2017-2027 (Commonwealth of Australia, 2017)
Natator depressus	Flatback turtle	Vulnerable	Migratory	Marine	Vulnerable	
Lepidochelys olivacea	Olive ridley turtle	Endangered	Migratory	Marine	Vulnerable	
Aipysurus apraefrontalis	Short-nosed sea snake	Critically endangered	N/A	Marine	Critically endangered	Approved Conservation Advice for Aipysurus apraefrontalis (Short-nosed Sea Snake) (DSEWPAC, 2011a)
Aipysurus foliosquama	Leaf-scaled sea snake	Critically endangered	N/A	Marine	Critically endangered	Approved Conservation Advice for Aipysurus foliosquama (Leaf-scaled Sea Snake) (DSEWPAC, 2011b)
Crocodylus porosus	Salt-water crocodile	N/A	Migratory	Marine	Other protected fauna	N/A

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6.2 Marine Turtles in the NWMR

According to the Protected Matters search (**Appendix A**) six species of marine turtle known to occur within the NWMR are listed as threatened and migratory (three Vulnerable and three Endangered) under the EPBC Act—the green (*Chelonia mydas*), hawksbill (*Eretmochelys imbricata*), flatback (*Natator depressus*), loggerhead (*Caretta caretta*), leatherback (*Dermochelys coriacea*) and olive ridley (*Lepidochelys olivacea*) turtle (DSEWPAC, 2012a) (refer **Table 6-1**).

The NWMR supports globally significant breeding populations of four marine turtle species: the green, hawksbill, flatback and loggerhead turtle. Olive ridley turtles are known to forage within the NWMR, but there are only occasional records of the species nesting in the region. Leatherback turtles regularly forage over Australian continental shelf waters within the NWMR but there are also no records of the species nesting in the region (DSEWPAC, 2012a).

The six marine turtle species reported for the NWMR also occur within the NMR.

Three marine turtle species; the green, loggerhead, and leatherback turtle, have presumed feeding areas within the SWMR; however, no known nesting areas exist within the region (DSEWPAC, 2012b).

Discrete genetic stocks have evolved within each marine turtle species. This is the result of marine turtles returning to the location where they hatched. These genetically distinct stocks are defined by the presence of regional breeding aggregations. Stocks are composed of multiple rookeries in a region and are delineated by where there is little or no migration of individuals between nesting areas. Turtles from different stocks typically overlap at feeding grounds (Commonwealth of Australia, 2017). There are 17 genetic stocks across both the NWMR and NMR (nine in the NWMR, six in the NMR, and two overlapping both regions). Of these 17 genetic stocks, nine are known to occur within Woodside's three areas of activity (**Table 6-2**).

6.2.1 Life Cycle Stages

Marine turtles are highly migratory during non-reproductive life phases and have high site fidelity during breeding and nesting life phases. Majority of their lives are spent in the ocean, but the adult female marine turtles will come ashore to lay eggs in the sand above the high water mark on natal beaches (Commonwealth of Australia, 2017). **Figure 6-1** summarises the generalised life cycle of marine turtles. Species-specific life cycle information is outlined within the Recovery Plan for Marine Turtles of Australia (Commonwealth of Australia, 2017).

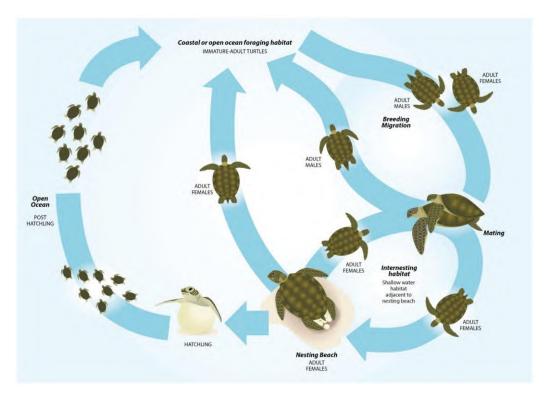


Figure 6-1 Generalised life cycle of marine turtles (Commonwealth of Australia, 2017)

6.2.2 Habitat Critical to Survival for Marine Turtles in the NWMR

The Recovery Plan for Marine Turtles of Australia (Commonwealth of Australia, 2017) identifies habitat critical to the survival of a species for marine turtle stocks under the EPBC Act. Habitat critical to survival is defined by the EPBC Act Significant Impact Guidelines 1.1 – Matters of National Environmental Significance as areas necessary:

- for activities such as foraging, breeding or dispersal;
- for the long-term maintenance of the species (including the maintenance of species essential to the survival of the species);
- to maintain genetic diversity and long term evolutionary development; and
- for the reintroduction of populations or recovery of the species.

The Recovery Plan for Marine Turtles of Australia (Commonwealth of Australia, 2017) has identified nesting locations and associated internesting areas as habitat critical to survival for four marine turtle species within the NWMR and these are identified, described and mapped in **Table 6-2** and **Figure 6-2**. No habitat critical to survival has been identified within the NWMR for olive ridley or leatherback turtles.

Table 6-2 outlines the relevant genetic stock, habitat critical to survival and key life cycle stage seasonality of the four species of marine turtles within the NWMR.

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Table 6-2 Genetic stock, habitat critical to survival and key life cycle stage seasonality of the four species of marine turtles within the NWMR

	Woodsi	de Activity	Area		Habitat Critical to S	urvival	
Species	Browse	NWS/S	NWC	Nesting (* Major Rookery¹)	Internesting Buffer	Seasonality- Nesting	Preferred Habitat ²
				Green Turtle			
NWS Stock (G-NWS)	✓	✓	✓	Adele Island Maret Island Cassini Island Lacepede Islands* Barrow Island* Montebello Islands (all with sandy beaches)* Serrurier Island Dampier Archipelago Thevenard Island Northwest Cape* Ningaloo coast	20 km radius	Nov-Mar	Nearshore reef habitats in the photic zone.
Ashmore Reef Stock (G-AR)	✓	-	-	Ashmore Reef* Cartier Reef*		All year (peak: Dec-Jan)	
Scott Reef-Browse Island Stock (G-ScBr)	✓	-	-	Scott Reef (Sandy Islet)* Browse Island*		Nov-Mar	
				Hawksbill Turtle	<u> </u>		
Western Australia Stock (H-WA)	-	1	-	Dampier Archipelago (including Rosemary Island and Delambre Island)* Montebello Islands (including Ah Chong Island, South East Island and Trimouille Island)* Lowendal Islands (including Varanus Island, Beacon Island and Bridled Island) Sholl Island	20 km radius	Oct-Feb	Nearshore and offshore reef habitats.

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	Woodsi	de Activity	Area	Habitat Critical to Survival				
Species	Browse	NWS/S	NWC	Nesting (* Major Rookery¹)	Internesting Buffer	Seasonality- Nesting	Preferred Habitat ²	
				Flatback Turtle				
Cape Domett Stock (F-CD)	√	-	-	Cape Domett* Lacrosse Island	60 km radius	All year (peak: Jul-Sep)	Nearshore and offshore sub-tidal and soft bottomed habitats of offshore islands.	
South-west Kimberley Stock (F-swKim)	-	✓	-	Eighty Mile Beach* Eco Beach* Lacepede Islands		Oct-Mar		
Pilbara Stock (F-Pil)	-	√	-	Montebello Islands Mundabullangana Beach* Barrow Island* Cemetery Beach Dampier Archipelago (including Delambre Island* and Huay Island) Coastal islands from Cape Preston to Locker Island		Oct-Mar		
Unknown genetic stock Kimberley, Western Australia	✓ ·	✓	-	Maret Islands Montilivet Islands Cassini Island Coronation Islands (includes Lamarck Island) Napier-Broome Bay Islands (West Governor Island, Sir Graham Moore Island – near Kalumbaru) Champagny, Darcy and Augustus Islands (Camden Sound)		May-July		

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	Woodside Activity Area		Habitat Critical to Survival				
Species	Browse	NWS/S	NWC	Nesting (* Major Rookery¹)	Internesting Buffer	Seasonality- Nesting	Preferred Habitat ²
Loggerhead Turtle							
Western Australia Stock (LH-WA)	-	-	√	Dirk Hartog Island* Muiron Islands* Gnaraloo Bay* Ningaloo coast	20 km radius	Nov-May	Nearshore and island coral reefs, bays and estuaries in tropical and warm temperate latitudes.

¹ Major rookeries as outlined in the Recovery Plan (Commonwealth of Australia, 2017)

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² Preferred habitat as outlined in the Recovery Plan (Commonwealth of Australia, 2017)

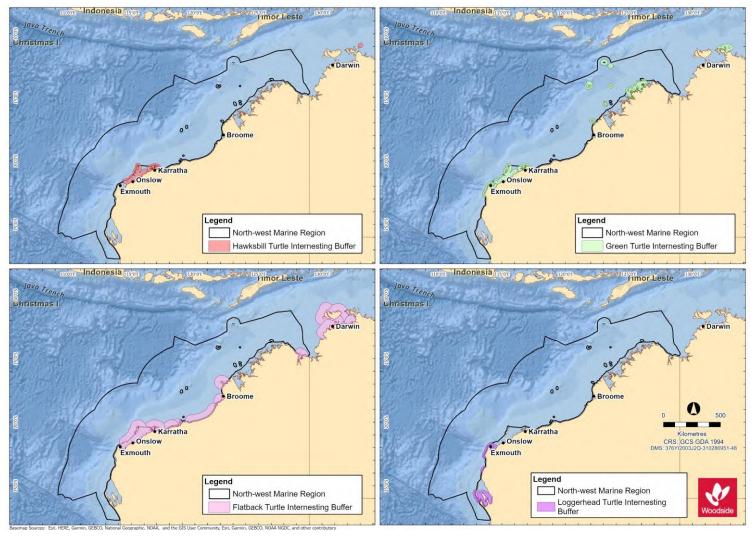


Figure 6-2 Marine turtle species habitat critical to survival (nesting beaches and internesting buffers) for the NWMR

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6.3 Marine Turtle Biological Important Areas in the NWMR

A review of the National Conservation Values Atlas (DAWE, 2020²) identified BIAs for the four marine turtle species that occur within the NWMR. These are described in **Table 6-3**. Note that nesting and internesting BIAs are not listed in **Table 6-3** as they are defined as in the Recovery Plan as habitat critical to survival for marine turtles nesting beaches and internesting areas (refer **Table 6-2**).

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² http://www.environment.gov.au/webgis-framework/apps/ncva/ncva.jsf

Table 6-3 Marine turtle BIAs within the NWMR

Species	Woodside Activity Species Area		BIAs			
	Browse	NWS/S	NWC	Mating	Foraging	Migration ³
Green turtle		✓	✓	No mating BIA identified within the NWMR.	Foraging inshore areas of Barrow Island Foraging at Montgomery Reef Foraging at Montebello Islands Foraging at Dixon Island Foraging around Ashmore Reef Foraging at Seringapatam Reef and Scott Reef Foraging in the De Grey River area to Bedout Island Foraging around the Islands between Cape Preston and Onslow and inshore of Barrow Island Foraging around Dampier Archipelago (islands to the west of the Burrup Peninsula) Foraging at Legendre Island and Huay Island Foraging around Delambre Island Foraging in the Joseph Bonaparte Gulf Foraging in waters adjacent to James Price Point	Green turtles can migrate more than 2600 km between their feeding and nesting grounds. Individual turtles foraging in the same area do not necessarily take the same migration route (Limpus et al., 1992). Ferreira et al. (2021) broadly identified two migratory corridors, one used by the NWS stock-Pilbara and another used by the NWS stock-Kimberley and the Scott-Browse stock with some overlap at the northern and southern extents respectively. This study showed that the foraging distribution of green turtles from two stocks in WA expands throughout north-west and northern Australian coastal waters, including the NT and Queensland.
Hawksbill turtle	✓	√	✓	No mating BIA identified within the NWMR.	Foraging around the Lowendal Island group Foraging at Delambre Island Foraging around Dixon Island Foraging in the De Grey River area to Bedout Island Foraging around the islands between Cape Preston and	Individuals may migrate up to 2400 km between their nesting and foraging grounds (DSEWPAC, 2012a).

³ Migration BIA does not exist for Marine Turtles – general information provided.

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Species	Woodside Activity Area		BIAs			
•	Browse	NWS/S	NWC	Mating	Foraging	Migration ³
Flatback turtle	√	✓	-	Lacepede Islands Mating at Montebello Islands	Onslow and inshore of Barrow Island Foraging around the islands of the Dampier Archipelago (to the west of the Burrup Peninsula) Foraging at Ashmore Reef Foraging at the islands between Cape Preston and Onslow and	There is evidence that some flatback turtles undertake long-
				Mating at Dampier Archipelago (islands to the west of the Burrup Peninsula) Mating at Barrow Island A year-round internesting buffer biologically important area (BIA) of 80 km is located north and north-west of the Montebello Islands, extending 20 km further than the habitat critical to survival. However, use level for this BIA has been defined as very low (Commonwealth of Australia, 2017) and the habitat critical to survival internesting buffer is the legally recognised area of protection under the EPBC Act Significant Impact Guidelines 1.1 – Matters of National Environmental Significance Refer to the Marine Bioregional Plan for the Northwest Marine Region (DSEWPAC, 2012a) for locations of seasonal 80 km internesting buffer BIAs for flatback turtles	inshore of Barrow Island. Foraging at Montebello Islands Foraging at Dampier Archipelago (islands to the west of the Burrup Peninsula) Foraging at Legendre Island and Huay Island Foraging at Delambre Island Foraging in the Joseph Bonaparte Depression Foraging in waters adjacent to James Price Point	distance migrations between breeding and feeding grounds (Limpus et al., 1983). However, flatback turtles generally do not have a pelagic phase to their lifecycle. Instead, hatchlings grow to maturity in shallow coastal waters thought to be close to their natal beaches (DSEWPAC, 2012a).

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Species	Woodside Activity Area			BIAs		
·	Browse	NWS/S	NWC	Mating	Foraging	Migration ³
Loggerhead turtle	✓	✓	-	No mating BIA identified within the NWMR	Foraging in the De Grey River area to Bedout Island Foraging on the Western Joseph Bonaparte Depression Foraging in the waters adjacent to James Price Point	Adult loggerhead turtles dispersing from Dirk Hartog Island beaches (near Shark Bay) have remained within WA waters from southern WA to the Kimberley. Turtles dispersing from the Northwest Cape—Muiron Islands nesting area have ranged north as far as the Java Sea and the northwestern Gulf of Carpentaria, and to south-west WA (DSEWPAC, 2012).
Olive ridley turtle	1	√	-	No mating BIA identified within the NWMR	Foraging in the Western Joseph Bonaparte Depression and Gulf Foraging in the Dampier Archipelago (islands to the west of the Burrup Peninsula)	Migration routes and distances between nesting beaches and foraging areas are not known for Australian olive ridley turtles.

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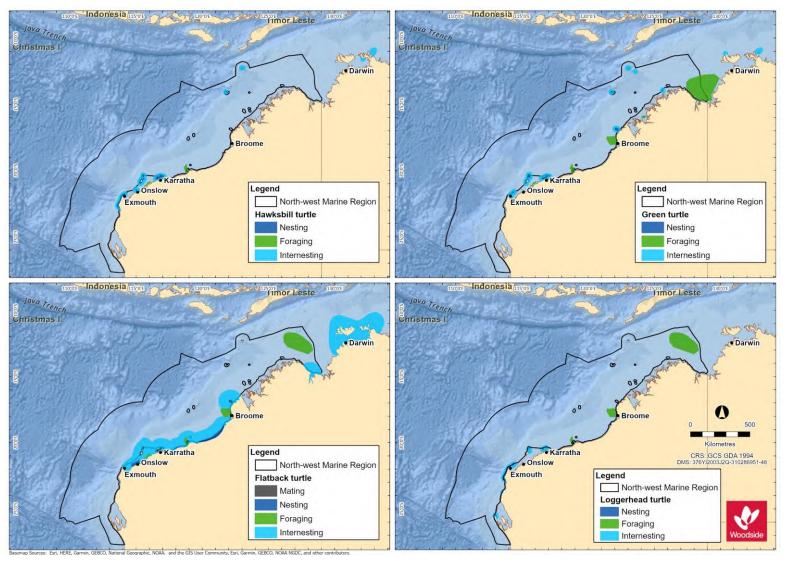


Figure 6-3 Marine turtle species BIAs within the NWMR

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6.4 Marine Turtle Summary for NWMR

Six of the seven marine turtle species occur within the Woodside activity areas. Across all three areas, globally significant breeding populations of four marine turtle species; the green, hawksbill, flatback and loggerhead turtle, have been recorded.

However, offshore waters do not represent biologically important habitat for marine turtles in any of the three Woodside activity areas. Isolated records of transient individuals (on post-nesting migration) are expected, but there is no evidence of important habitat or behaviours for marine turtles in offshore, open water environment of the NWS, in general.

6.4.1 **Browse**

The proposed Browse activity area includes major nesting areas that support globally significant breeding populations of two marine turtle species:

- the green turtle, including two distinct genetic stocks (Ashmore Reef and Scott Reef-Browse Island); and
- the flatback turtle, Cape Domett genetic stock.

Locations of habitat critical for each of the two species are outlined in Table 6-2 and Figure 6-2.

BIAs for the green and flatback turtle are outlined in **Table 6-3** and **Figure 6-3**.

Table 6-4 Marine turtle key information for Browse activity area

Species / Genetic Stock	Key Information						
Green Turtle							
Ashmore Reef Stock (G-AR)	The G-AR stock nests in a localised area of the Indian Ocean in the Ashmore Reef and Cartier Island AMP areas. Population estimates are not available for Ashmore Reef, although annual breeding numbers are thought to be in the low hundreds (Whiting, 2000). Designated habitat critical for the G-AR stock are the nesting locations of Ashmore Reef and Cartier Reef, and an internesting buffer of 20 km radius around these rookeries, year-round with peak internesting activity occurring December to January (refer Table 6 of the Recovery Plan). Juvenile and adult turtles forage within the tidal/sub-tidal habitats of offshore islands and coastal waters with coral reef, mangrove, sand, rocky reefs, and mudflats where there are algal turfs or seagrass meadows present (Commonwealth of Australia, 2017).						
Scott Reef-Browse Island Stock (G-ScBr)	The G-ScBr stock is a discrete unit known to nest at only two locations within the north-east Indian Ocean—Sandy Islet and Browse Island. There is currently very limited data available for the G-ScBr stock, therefore population numbers are not known. Designated habitat critical for the G-ScBr stock are the nesting locations of Sandy Islet and Browse Island, and an internesting buffer of 20 km radius around these rookeries, for the period November to March (refer Table 6 of the Recovery Plan). Surveys conducted at Scott Reef in 2006, 2008 and 2009 indicate that the summer months from late November to February are the preferred breeding season for green turtles at Sandy Islet (Guinea, 2009). Satellite tagging studies (Pendoley, 2005; Guinea, 2011) have provided an indication of the behaviour and migratory routes of adult green turtles leaving Scott Reef. Most animals appear to swim through South Reef lagoon and disperse toward the Western Australian mainland via two distinct post-nesting migration pathways; travelling east and north toward the Bonaparte Archipelago and then north along the coast to foraging areas in NT waters, or travelling south to Cape Leveque and then south along the coast to the Turtle Islands off the mouth of the De Grey River in the Pilbara region (Ferreira et al., 2021).						

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Species / Genetic Stock	Key Information
	Flatback Turtle
Cape Domett Stock (F-CD)	Cape Domett is an important high density nesting area. Combined with a smaller site at Lacrosse Island, the F-CD stock is one of the largest flatback turtle stocks in Australia. Average nesting abundance at Cape Domett is estimated at 3250 females per year (Whiting et al., 2008). Designated habitat critical for the F-CD stock are the nesting locations of Cape Domett and Lacrosse Island, and an internesting buffer of 60 km radius around these rookeries, year-round with peak internesting activity occurring July to September. Extending further than the habitat critical internesting buffer, an internesting buffer BIA of 80 km is located at Cape Domett and Lacrosse Island.

6.4.2 North-west Shelf / Scarborough

The NWS / Scarborough activity area includes major nesting areas that support globally significant breeding populations of three marine turtle species, representing four discreet genetic stocks:

- the green turtle, NWS genetic stock;
- the hawksbill turtle, WA genetic stock; and
- the flatback turtle, South-west Kimberley stock and Pilbara genetic stocks.

Locations of habitat critical for each of the four species are outlined in **Table 6-2** and **Figure 6-2**.

BIAs for the green, hawksbill, and flatback are outlined in **Table 6-3** and **Figure 6-3**.

Table 6-5 Marine turtle key information for NWS / Scarborough activity area

Species / Genetic Stock	Key Information			
Green Turtle				
NWS Stock (G-NWS)	The G-NWS stock is one of the largest green turtle stocks in the world and the largest in the Indian Ocean. The G-NWS stock is estimated at approximately 20,000 individuals (DSEWPAC, 2012a) and the trend for the stock is reported as stable (Commonwealth of Australia, 2017). Major rookeries of the G-NWS stock within the NWS / Scarborough activity area are located at Barrow Island and the Montebello Islands. These areas are designated habitat critical for the stock and include an internesting buffer of 20 km radius around these rookeries, November to March.			
	Hawksbill Turtle			
Western Australia Stock (H-WA)	The H-WA stock is the largest in the Indian Ocean. The majority of the nesting for this stock is located in the Pilbara. The Dampier Archipelago has the largest nesting aggregation recorded. In particular, Rosemary Island supports the most significant hawksbill turtle rookery in the WA region and one of the largest in the Indian Ocean; approximately 500-1000 females nest on the island annually, more than at any other WA rookery (Pendoley, 2005; Pendoley <i>et al.</i> , 2016). Major rookeries of the H-WA stock within the NWS / Scarborough activity area are located at Rosemary Island, Delambre Island and the Montebello Islands. These areas are designated habitat critical for the stock and include an internesting buffer of 20 km radius around these rookeries, October to February.			
	Flatback Turtle			
South-west Kimberley Stock (F-swKim)	The genetic relationship between this nesting aggregation and the Cape Domett and Pilbara stocks is currently under review. Population numbers of the F-swKim stock are unknown. Major rookeries of the F-swKim stock are located at Eighty Mile Beach and Eco Beach. These areas are designated habitat critical for the stock and include an internesting buffer of 60 km radius around these rookeries, October to March.			

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Species / Genetic Stock	Key Information
Pilbara Stock (F-Pil)	The extent of genetic relatedness of flatback turtles along the WA coast is currently under review. Population numbers of the F-Pil stock are unknown. This stock nests on many islands in the Pilbara and southern Kimberley, with major rookeries at Mundabullangana Beach, Delambre Island and Barrow Island. These areas are designated habitat critical for the F-Pil stock and include an internesting buffer of 60 km radius around these rookeries, October to March. Extending further than the habitat critical internesting buffer, a year-round internesting buffer BIA of 80 km is located north and north-west of the Montebello Islands. However, use level for this BIA has been defined as very low (Commonwealth of Australia, 2017) and the habitat critical internesting buffer is the legally recognised area of protection under the EPBC Act
	Significant Impact Guidelines 1.1 – Matters of National Environmental Significance.
	Post-nesting satellite tracking indicates foraging occurs along the WA coast in water shallower than 130 m and within 315 km of shore (Commonwealth of Australia, 2017).

6.4.3 North-west Cape

The North-west Cape activity area includes major nesting areas that support globally significant breeding populations of two marine turtle species, representing two discreet genetic stocks:

- · the green turtle, NWS genetic stock; and
- the loggerhead turtle, Western Australia genetic stock.

Locations of habitat critical for each of the two species are outlined in Table 6-2 and Figure 6-2.

BIAs for the green and loggerhead turtles are outlined in **Table 6-3** and **Figure 6-3**.

A 2018 survey, including on-beach monitoring of the Muiron Islands and Ningaloo Coast from Northwest Cape to Bungelup (Rob *et al.*, 2019), supports the concept that North-west Cape and the Muiron Islands are major important nesting areas for green and loggerhead turtles, as identified in the Recovery Plan (Commonwealth of Australia, 2017).

Table 6-6 Marine turtle key information for North-west Cape activity area

Species / Genetic Stock	Key Information
	Green Turtle
NWS Stock (G-NWS)	The G-NWS stock is one of the largest green turtle stocks in the world and the largest in the Indian Ocean. The G-NWS stock is estimated at approximately 20,000 individuals (DSEWPAC, 2012a) and the trend for the stock is reported as stable (Commonwealth of Australia, 2017). There is one major rookery of the G-NWS stock located within the North-west Cape activity area. Located on the mainland coast of the North-west Cape, this area is designated habitat critical for the stock and includes an internesting buffer of 20 km radius around the rookery, November to March.
	Loggerhead Turtle
Western Australia Stock (LH-WA)	The LH-WA stock is one of the largest in the world (Limpus, 2009). The trend for the stock is reported as stable (Commonwealth of Australia, 2017). Major rookeries of the LH-WA stock are located at Dirk Hartog Island, Muiron Islands and Gnaraloo Bay. These areas are designated habitat critical for the stock and include an internesting buffer of 20 km radius around these rookeries, November to May. Dirk Hartog Island in the Shark Bay Marine Park, with an average of 122 nests per day over 2.1 km (Reinhold and Whiting, 2014), is recognised as the most important loggerhead turtle rookery in WA (Commonwealth of Australia, 2016; as cited in Rob et al., 2019).

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6.5 Sea Snakes

Sea snakes are commonly found in the NWMR and NMR, but less so in the SWMR, and occupy three broad habitat types: shallow water coral reef and seagrass habitats, deepwater soft bottom habitats away from reefs, and surface water pelagic habitats (Guinea, 2007a).

There are 25 listed species of sea snake reported within or adjacent to the NWMR (Guinea, 2007a; Udyawer *et al.*, 2016), of which four are endemic to reef habitats in the remote parts of the region:

- dusky sea snake (Aipysurus fuscus);
- large headed sea snake (Hydrophis pacificus);
- short-nosed sea snake (Aipysurus apraefrontalis); and
- leaf-scaled sea snake (Aipysurus foliosquama).

The short-nosed sea snake and the leaf-scaled sea snake are listed threatened species (Critically Endangered) under the EPBC Act (Table 6-7).

There is currently limited knowledge about the ranges and distribution patterns of sea snake species in the NWMR, in addition to a lack of understanding of population status and threats. Recent findings of *A. apraefrontalis* and *A. foliosquama* in locations outside of their previously defined ranges have highlighted the lack of information on species distributions in the NWMR (Udyawer *et al.*, 2016). Udyawer *et al.* (2020) used a correlative modelling approach to understand habitat associations and identify suitable habitats for five sea snake species (*A. apraefrontalis, A. foliosquama, A. fuscus, A. l. pooleorum* and *A. tenuis*). Species-specific habitat suitability was modelled across 804,244 km² of coastal waters along the NWS, and the resulting habitat suitability maps enabled the identification of key locations of suitable habitat for these five species (refer **Table 6-6**).

No habitat critical to survival or BIAs for sea snake species have been identified in the NWMR. While the Ashmore Reef and Cartier Island AMPs have been recognised for their high diversity and density of sea snakes (DSEWPAC, 2012a), surveys have revealed a steep decline in sea snake numbers at Ashmore Reef (Guinea, 2007b; Lukoschek *et al.*, 2013). Leaf-scaled and short-nosed sea snakes have been absent from surveys at Ashmore Reef since 2001, despite an increase in survey intensity (Guinea, 2006, 2007b; Guinea and Whiting, 2005; Lukoschek *et al.*, 2013). The reason for the decline is unknown.

Table 6-7 Information on the two threatened sea snake species within the NWMR

Species	Preferred Habitat and Diet	Habitat Location
Short-nosed sea snake	Preferred habitat: Primarily on the reef flats or in shallow waters of the outer reef edges to depths of 10 m (Minton <i>et al.</i> , 1975). Typically, movement is restricted to within 50 m of reef flat habitat (Guinea and Whiting, 2005). Diet: Primarily fishes and eels.	The short-nosed sea snake has been recorded from Exmouth Gulf to the reefs of the Sahul Shelf, although most records come from Ashmore and Hibernia reefs (Guinea and Whiting, 2005). Key locations of suitable habitat: Ashmore Reef, Exmouth Gulf, Muiron Islands, Montebello Islands (Udyawer et al., 2020).
Leaf-scaled sea snake	Preferred habitat: The leaf-scaled sea snake occurs in shallow protected areas of reef flats, typically in water depth less than 10 m. Diet: Primarily shallow water coral-associated wrasse, gudgeons, clinids and eels (McCosker, 1975; Voris, 1972; Voris and Voris, 1983)	The leaf-scaled sea snake has only been recorded at Ashmore and Hibernia reefs (Guinea and Whiting, 2005), indicating it has a very limited distribution. Key locations of suitable habitat: Ashmore Reef, Shark Bay, Exmouth Gulf, Barrow Island and Montebello Islands (Udyawer et al., 2020).

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6.6 Crocodiles

The salt-water crocodile (*Crocodylus porosus*) is a listed migratory species under the EPBC Act known to occur within the NWMR. The species is found in most major river systems of the Kimberley, including the Ord, Patrick, Forrest, Durack, King, Pentecost, Prince Regent, Lawley, Mitchell, Hunter, Roe and Glenelg rivers. The largest populations occur in the rivers draining into the Cambridge Gulf and the Prince Regent River and Roe River systems. There have also been isolated records in rivers of the Pilbara region, around Derby near Broome and as far south as Carnarvon on the mid-west coast.

No BIAs for salt-water crocodile have been identified in the NWMR.

7. MARINE MAMMALS

7.1 Regional Context

The offshore waters of WA include important habitat for marine mammals, including areas that support key life stages such as breeding, foraging, and migration. Of the 45 species of cetacean occurring in Australian waters, 27 species occur regularly in the waters of the NWMR, nine species in the waters of the NMR and 33 species in the SWMR. The waters of the NWMR and the NMR also support significant populations of dugong (DSEWPAC, 2012a, c).

The NWMR is an important migratory pathway between feeding grounds in the Southern Ocean and breeding grounds in tropical waters of the NWMR for several cetacean species (DSEWPAC, 2012a). Numerous large mysticetes (baleen whale) species, in particular the humpback whale, are known to utilise the region for migration and calving, and the pygmy blue whale for foraging and as a migration pathway between southern feeding and northern breeding/feeding areas, north of the equator.

The SWMR is an important area for numerous marine mammal species including pinniped species, large, migratory whale species and resident coastal whale and dolphin species (DSEWPAC, 2012b).

The NMR and adjacent areas are important for several species of cetacean, particularly inshore dolphin species. These species, and other marine mammals, rely on the waters of the NMR and adjacent coastal areas for breeding and foraging. However, there is little knowledge of the seasonal movements, migrations and breeding seasonality for many of the marine mammal species in the NMR due to lack of extensive surveys (DSEWPAC, 2012c).

Table 7-1 outlines the threatened and migratory marine mammal species that may occur within the NWMR, with their conservation status and relevant recovery plans and/or conservation advice.

Table 7-1 Marine mammal species identified by the EPBC Act PMST as occurring within the NWMR

Species Name	Common Name	Environment Protection and Biodiversity Conservation Act 1999			WA Biodiversity Conservation Act 2016	EPBC Act Part 13 Statutory
		Threatened Status	Migratory Status	Listed	Conservation Status	- motiument
		·	Cetaceans - N	ysticeti		
Balaenoptera musculus	Blue whale	Endangered	Migratory	Cetacean	Endangered	Conservation Management Plan for the Blue Whale - A Recovery Plan under the Environment Protection and Biodiversity Conservation Act 1999 2015-2025 (Commonwealth of Australia, 2015a)
Eubalaena australis	Southern right whale	Endangered	Migratory	Cetacean	Vulnerable	Conservation Management Plan for the Southern Right Whale: A Recovery Plan under the <i>Environment Protection and Biodiversity</i> <i>Conservation Act 1999</i> 2011-2021 (DSEWPAC, 2012d)
Balaenoptera borealis	Sei whale	Vulnerable	Migratory	Cetacean	Endangered	Conservation Advice <i>Balaenoptera borealis</i> sei whale (Threatened Species Scientific Committee, 2015a)
Megaptera novaeangliae	Humpback whale	Vulnerable	Migratory	Cetacean	Conservation dependent	Conservation Advice <i>Megaptera novaeangliae</i> humpback whale (Threatened Species Scientific Committee, 2015b)
Balaenoptera physalus	Fin whale	Vulnerable	Migratory	Cetacean	Endangered	Conservation Advice Balaenoptera physalus fin whale (Threatened Species Scientific Committee, 2015c)
Balaenoptera edeni	Bryde's whale	N/A	Migratory	Cetacean	N/A	N/A
Balaenoptera bonaerensis	Antarctic minke whale	N/A	Migratory	Cetacean	N/A	N/A
	Cetaceans - Odontoceti					
Physeter macrocephalus	Sperm whale	N/A	Migratory	Cetacean	Vulnerable	N/A
Orcinus orca	Killer whale	N/A	Migratory	Cetacean	N/A	N/A
Orcaella heinsohni	Australian snubfin dolphin	N/A	Migratory	Cetacean	Priority	N/A
Sousa chinensis	Indo-Pacific humpback dolphin	N/A	Migratory	Cetacean	Priority	N/A

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Species Name	Common Name	Environment Protection and Biodiversity Conservation Act 1999		WA Biodiversity Conservation Act 2016	EPBC Act Part 13 Statutory	
		Threatened Status	Migratory Status	Listed	Conservation Status	monument
Tursiops aduncus	Spotted bottlenose dolphin (Arafura/Timor Sea populations)	N/A	Migratory	Cetacean	N/A	N/A
			Sirenians and F	Pinnipeds		
Dugong dugon	Dugong	N/A	Migratory	Marine	Other protected fauna	N/A
Neophoca cinerea	Australian sea lion	Endangered	N/A	Marine	Vulnerable	Recovery Plan for the Australian Sea Lion (Neophoca cinerea) 2013 (DSEWPAC, 2013a) Conservation Advice Neophoca cinerea Australian Sea Lion (Threatened Species Scientific Committee, 2020a) (in effect under the EPBC Act from 23-Dec-2020)

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7.2 Cetaceans in the NWMR

Cetaceans are generally widely distributed and highly mobile. In general, distribution patterns reflect seasonal feeding areas, characterised by high productivity, and migration routes associated with reproductive patterns. The NWMR is thought to be an important migratory pathway between feeding grounds in the Southern Ocean and breeding grounds in tropical waters for several cetacean species (DSEWPAC, 2012a).

From the Protected Matters search, 34 EPBC Act listed species were recorded as potentially occurring or having habitat within the NWMR (**Appendix A**). Of those, 12 cetacean species are listed as threatened and/or migratory, including baleen whales, toothed whales and dolphins that occur within the NWMR (**Table 7-2**).

7.3 Dugongs in the NWMR

The dugong is listed as migratory under the EPBC Act. Dugongs inhabit seagrass meadows in coastal waters, estuarine creeks and streams, and reef systems (DSEWPAC, 2012a).

Some of the coastal waters adjacent to the NWMR support significant populations of dugongs, including Shark Bay, Exmouth Gulf, in and adjacent to Ningaloo Reef, in coastal waters along the Kimberley coast, and on the edge of the continental shelf at Ashmore Reef (DEWHA, 2008).

Although the patterns of dugong movement in WA are not well understood, it is thought that dugongs move in response to availability of seagrass (Marsh *et al.*, 1994; Preen *et al.*, 1997) and water temperature.

There are a number of BIAs for dugong within and adjacent to waters of the NWMR (refer **Section 7.5**).

7.4 Pinnipeds in the NWMR

The Australian sea lion is listed as a species that may occur, or may have habitat within the NWMR (Protected Matters search - **Appendix A**). It is included here as the Australian sea lion is the only pinniped endemic to Australia (Strahan, 1983) and has been recorded within the southern extent of the NWMR at Shark Bay, WA (Kirkwood *et al.*, 1992). The most northern known breeding colony is at the Houtman Abrolhos Islands in the SWMR. The Australian sea lion's breeding range extends from the Houtman Abrolhos Islands, WA to The Pages Island, east of Kangaroo Island, SA. The Australian sea lion was listed as endangered in 2020 (Threatened Species Scientific Committee, 2020a). An assessment of the status and trends in abundance of this endemic, coastal pinniped species (Goldsworthy *et al.* 2021) documented an overall reduction in pup abundance over three generations, providing strong evidence that the species meets IUCN endangered criteria.

There are no BIAs for the Australian sea lion in the NWMR.

Table 7-2 Information on the threatened/migratory marine mammal species within the NWMR

Species	Key Information			
	Baleen whales (Mysticeti)			
Humpback whale	In Australian waters two genetically distinct populations migrate annually along the west (Group IV) and east coasts (Group V) between May and November. In WA, the migration pathway for the Group IV population (also known as Breeding Stock D) extends from Albany to the Kimberley coastline, passing through the NWMR (Threatened Species Scientific Committee, 2015b). Since the 1982 moratorium on commercial whaling population numbers have recovered significantly; from approximately 2000 to 3000 individuals in 1991, to between 19,200–33,850 individuals in 2008 (Bannister and Hedley, 2001; Bejder et al., 2019; Hedley et al., 2011). Aerial surveys off the WA coast undertaken between 2000 and 2008 produced a population estimate for the Group IV population of 26,100 individuals (CI 20,152–33,272) in 2008 (Salgado Kent et al., 2012). Current population growth for the Group IV population is estimated to be between 9.7 and 13% per annum (Threatened Species Scientific Committee, 2015b). Using the Salago-Kent et al. (2012) estimate of 26,100 individuals and an annual population growth rate of ~10%, current population size could be in excess of 75,000 individuals (Woodside, 2019). The Group IV population migrates northward from their Antarctic feeding grounds around May each year, reaching the NWMR around early June. The southward migration subsequently starts in mid-September, around the time of breeding and calving (typically August to September) (Threatened Species Scientific Committee, 2015b). Within the NWMR there are key calving areas between Broome and the northern end of Camden Sound, and resting areas in the southern Kimberley region, Exmouth Gulf and Shark Bay. In particular, high numbers of humpback whales are observed in Camden Sound and Pender Bay from June to September each year (Threatened Species Scientific Committee, 2015b). There are reports of neonates further south, suggesting that the calving areas may be poorly defined. Aerial photogrammetric surveys in 2013 and 2015 recorded large numbers of humpback wh			
Blue whale	There are two recognised sub-species of blue whale in the Southern Hemisphere, both of which are recorded in Australian waters. These are the southern (or 'true') blue whale (<i>Balaenoptera musculus</i>) and the 'pygmy' blue whale (<i>Balaenoptera musculus brevicauda</i>) (Commonwealth of Australia, 2015a). In general, southern blue whales occur in waters south of 60°S and pygmy blue whales occur in waters north of 55°S (i.e. not in the Antarctic). On this basis, nearly all blue whales sighted in the NWMR are likely to be pygmy blue whales. The East Indian Ocean (EIO) pygmy blue whale population is seasonally distributed from Indonesia (a potential breeding ground) to south-west of Australia and east across the Great Australian Bight and Bonney Upwelling to beyond the Bass Strait (Blue Planet Marine, 2020). Migration seems to be variable, with some individuals appearing as resident to areas of high productivity and others undertaking migrations across long distances (Commonwealth of Australia, 2015a). McCauley <i>et al.</i> (2018) describe three migratory stages around Australia for the EIO pygmy blue whale population: a 'southbound migratory stage' where whales travel southwards from Indonesian waters offshore from the WA coastline, mostly from October to December but possibly into January of the following year; a protracted 'southern Australian stage' (January to June) where animals spread across southern waters of the Indian Ocean and south of Australia; and a 'northbound migratory stage' (April to August) where animals travel north back to Indonesia again. There are currently insufficient data to accurately estimate population numbers of the pygmy blue whale in Australian waters (Blue Planet Marine, 2020; Commonwealth of Australia, 2015a). There are, however, two estimates of population size of the EIO pygmy blue whale for WA. McCauley and Jenner (2010) calculated the population to be between 662 and 1559 individuals in 2004 based on passive acoustics (whale vocalisations), and Jenner <i>et al.</i> (2008) (based on photogra			

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Species	Key Information
	travelling further west into the Indian Ocean (McCauley <i>et al.</i> , 2018). More recent passive acoustic data estimates a 4.3% growth rate that applies to the proportion of EIO pygmy blue whales seasonally present in offshore water of the south-eastern Australia and may not reflect the full population but does imply an increasing population (McCauley <i>et al.</i> , 2018).
	The pygmy blue whale is typically present in the Perth Canyon from November to June, with an observed peak between March and May (Commonwealth of Australia, 2015a; Blue Planet Marine, 2020). The pygmy blue whale feeds in the Perth Canyon at depths of 200 to 300 m, which overlaps the typical distribution of krill (200–500 m water depth (day) to surface (night) (McCauley et al., 2004; Commonwealth of Australia, 2015a). Other possible feeding grounds off the WA coast include the wider area around the Perth Canyon, and possible foraging areas off the Ningaloo Coast and at Scott Reef (Commonwealth of Australia, 2015a).
	Refer Table 7-3 and Figure 7-2 for the location and type of BIAs for blue whales in the NWMR. There is a migratory BIA for the pygmy blue whale within WA waters, which extends for most of the length of the NWMR within offshore waters.
Bryde's whale	The Bryde's whale is the least migratory of its genus and is restricted geographically from the equator to approximately 40°N and S, or the 20° isotherm (Bannister <i>et al.</i> , 1996). The species is known to exhibit inshore and offshore forms in other international locations that vary in morphology and migratory behaviours (Bannister <i>et al.</i> , 1996). This appears to also be the case within Australian waters. Bryde's whales have been identified as occurring in both oceanic and inshore waters, with the only key localities recognised in WA being in the Houtman Abrolhos Islands and north of Shark Bay (Bannister <i>et al.</i> , 1996). Data suggests offshore whales migrate seasonally, heading towards warmer tropical waters during the winter; however, information about migration within the NWMR is not well known (McCauley and Duncan, 2011). McCauley (2011) detected Bryde's whales using acoustic loggers deployed in and around Scott Reef from 2006 to 2009. Other acoustic logger data of Bryde's whale vocalisations recorded between Ningaloo and north of Darwin showed no apparent trends or seasonality (McCauley, 2011). There are no identified BIAs for this species in the National Conservation Values Atlas.
Southern right whale	The southern right whale occurs primarily in waters between about 20°S and 60°S and moves from high latitude feeding grounds in summer to warmer, low latitude, coastal locations in winter (Bannister <i>et al.</i> , 1996). Southern right whales aggregate in calving areas along the south coast of WA outside of the NWMR. However, there have been sightings in waters of the NWMR as far north as Ningaloo (Bannister and Hedley, 2001), and a stranding record exists for the far north Kimberley coast (ALA, 2020). Southern right whale calving grounds are found at mid to lower latitudes and are occupied during the austral winter and early-mid spring. They are regularly present on the southern Australian coast from about mid-May to mid-November, and peak periods for mating are from mid-July through August. Mating occurs within these breeding grounds as evidenced by many observations of intromission and mating behaviours. Southern right whales in south-western Australia appear to be increasing at the maximum biological rate but there is limited evidence of increase in south-eastern Australian waters (DSEWPAC, 2012d). There are no identified BIAs for this species in the NWMR.
Antarctic minke whale	The Antarctic minke whale is distributed worldwide and has been recorded off all Australian states (but not in the NT), feeding in cold waters and migrating to warmer waters to breed. It is thought that the Antarctic minke whale migrates up the WA coast to about 20°S to feed and possibly breed (Bannister <i>et al.</i> , 1996); however, detailed information about timing and location of migrations and breeding grounds within the NWMR is not well known. In the high latitudinal winter breeding grounds in other regions, the species appears to be distributed off the continental shelf edge. No population estimates are available for Antarctic minke whales in Australian waters. There are no identified BIAs for this species in the National Conservation Values Atlas.
Sei whale	The sei whale is a baleen whale with a worldwide oceanic distribution and is expected to seasonally migrate between low latitude wintering areas and high latitude summer feeding grounds (Bannister <i>et al.</i> , 1996; Prieto <i>et al.</i> , 2012). There are no known mating or calving areas in Australian waters. The species has a preference for deep waters, typically occurs in oceanic basins and continental slopes (Prieto <i>et al.</i> , 2012), and exhibits a migration pathway influenced by seasonal feeding and breeding patterns. Sei whales have been infrequently recorded in Australian waters (Bannister <i>et al.</i> , 1996). Reliable estimates of the sei whale population size in Australian waters are currently not possible due to a lack of dedicated surveys and their elusive characteristics. Similarly, the extent of occurrence and area of occupancy of sei whales in Australian waters cannot be calculated due to the

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Species	Key Information
	rarity of sighting records. They will typically travel in small pods of three to five individuals, with some segregation by age, sex and reproductive status. Calving grounds are presumed to exist in low latitudes with mating and calving potentially occurring during winter months (Threatened Species Scientific Committee, 2015a). There are no known mating or calving areas in Australian waters, and there are no identified BIAs for this species in the National Conservation Values
	Atlas.
Fin whale	The fin whale is a large baleen whale distributed worldwide. Fin whales migrate annually between high latitude summer feeding grounds and lower latitude over-wintering areas (Bannister <i>et al.</i> , 1996) and follow oceanic migration paths. The species is uncommonly encountered in coastal or continental shelf waters. Australian Antarctic waters are important feeding grounds for fin whales but there are no known mating or calving areas in Australian waters (Morrice <i>et al.</i> , 2004). The species has been observed in groups of six to 10 individuals, as well as in pairs and alone (Threatened Species Scientific Committee, 2015c). Accurate distribution patterns are not known within Australian waters and the majority of data are from stranding events.
	Fin whales have been recorded vocalising off the Perth Canyon, WA, between January and April 2000 (McCauley <i>et al.</i> , 2000). It is currently not possible to accurately estimate the population size of fin whales in Australian waters predominantly due to the species' behaviour and local ecology, as the proportion of time they spend at the surface varies greatly depending on these factors. In addition, natural fluctuations of fin whales in Australian waters are unknown; however, long-range movements do appear to be prey-related. A recent study by Aulich <i>et al.</i> (2019) used passive acoustic monitoring as a tool to identify the migratory movements of fin whales in Australian waters. On the west coast, the earliest arrival of these animals occurred at Cape Leeuwin in April, and between May and October they migrated along the WA coastline to the Perth Canyon, which likely acts as a way-station for feeding (Aulich <i>et al.</i> , 2019). Some whales were found to continue migrating as far north as Dampier (Aulich <i>et al.</i> , 2019). There are no identified BIAs for this species in the National Conservation Values Atlas.
	Toothed whales (Odontoceti)
Sperm whale	Sperm whales are the largest of the toothed whales and are distributed worldwide in deep waters (greater than 200 m) off continental shelves and sometimes near shelf edges (Bannister <i>et al.</i> , 1996). The species tends to inhabit offshore areas at depths of 600 m or more and is uncommon in waters less than 300 m deep (Ceccarelli <i>et al.</i> , 2011). There is limited information about sperm whale distribution in Australian waters, however, they are usually found in deep offshore waters, with more dense populations close to continental shelves and canyons. In the open ocean, there is a generalised movement of sperm whales southwards in summer, and corresponding movement northwards in winter, particularly for males. Detailed information about the distribution and migration patterns of sperm whales off the WA coast is not available. Females with young may reside within the NWMR all year round, males may migrate through the region and the species may be associated with canyon habitats (Ceccarelli <i>et al.</i> , 2011). Sperm whales have been recorded in deep waters off North-west Cape and appear to occasionally venture into shallower waters in other areas. Twenty-three (23) sightings of sperm whales (variable pod sizes, ranging from one to six animals) were recorded by marine mammal observers (MMOs) during the North West Cape MC3D marine seismic survey (December 2016 to April 2017) (Woodside, 2020). These animals were observed in deep, continental slope waters of the Montebello Saddle (maximum distance of approximately 90 km from North-west Cape), and the waters overlying the Canyons linking the Cuvier Abyssal Plain and the Cape Range Peninsula KEF. The deep waters above the gully/saddle on the inner edge of the plateau (the Montebello Saddle) are thought to be important for sperm whales that may feed in the region (based on 19 th Century whaling records; Townsend,
	1935). There are no identified BIAs for this species in the NWMR.
Killer whale	The preferred habitat of killer whales includes oceanic, pelagic and neritic (relatively shallow waters over the continental shelf) regions, in both warm and cold waters. Killer whales appear to be more common in cold, deep waters; however, they have been observed along the continental slope and shelf, particularly near seal colonies, as well as in shallow coastal areas of WA (Bannister <i>et al.</i> , 1996; Thiele and Gill, 1999). The total number of killer whales in Australian waters is unknown, however, it may be that the total number of mature animals within waters around the continent is less than 10,000. Killer whales are known to make seasonal movements, and probably follow regular migratory routes, but no information is available for the

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Species	Key Information
	species in Australian waters. Killer whales are top-level carnivores, and there are reports from around Australia of attacks on dolphins, juvenile humpback whales, blue whales, sperm whales, dugongs and Australian sea lions (Bannister <i>et al.</i> , 1996). Killer whales are known to target humpback whales, particularly calves, off Ningaloo Reef during the humpback southern migration season (Pitman <i>et al.</i> , 2015). Overall, observations suggest that humpback calves are a predictable, plentiful, and readily taken prey source for killer whales off Ningaloo Reef for at least five months of the year. Additionally, there are records of killer whales attacking dugongs in Shark Bay (Anderson and Prince, 1985). However, there are no recognised key localities or important habitats for killer whales within the NWMR (DSEWPAC, 2012a). There are no identified BIAs for this species in the NWMR.
Australian snubfin dolphin	Stranding and museum specimen records indicate that Australian snubfin dolphins occur only in waters off northern Australia, from approximately Broome on the west coast to the Brisbane River on the east coast (Parra <i>et al.</i> , 2002). Aerial and boat-based surveys indicate that Australian snubfin dolphins occur mostly in protected shallow waters close to the coast, and close to river and creek mouths (Parra, 2006; Parra <i>et al.</i> , 2006; Parra <i>et al.</i> , 2002). Within the NWMR, species has been found in the shallow coastal waters and estuaries along the Kimberley coast. Beagle and Pender bays on the Dampier Peninsula, and tidal creeks around Yampi Sound and between Kuri Bay and Cape Londonderry are important areas for Australian snubfin dolphins (DEWHA, 2008). Roebuck Bay has generally been considered the south-western limit of snubfin dolphin distribution across northern Australia, but the species has been recorded in Port Hedland harbour, the Dampier Archipelago, Montebello Islands, Exmouth Gulf and off North-west Cape (Allen <i>et al.</i> , 2012). A first comprehensive catalogue of snubfin dolphin sightings has been compiled for the Kimberley, north-west Western Australia (Bouchet <i>et al.</i> 2021) and documented that snubfin dolphins are consistently encountered in shallow water (<21 m depth) close to (<15 km) freshwater inputs with high detection rates in known hotspots such as Roebuck Bay and Cygnet Bay as well as suitable coastal habitat in the wider Kimberley region. Refer Table 7-3 and Figure 7-3 for the location and type of BIAs for Australian snubfin dolphins in the NWMR.
Indo-Pacific humpback dolphin (Australian humpback dolphin)	Previously included with <i>Sousa chinensis</i> , the Australian humpback dolphin (<i>S. sahulensis</i>) was elevated to a species in 2014. <i>S. chinensis</i> is now applied for humpback dolphins in the eastern Indian and western Pacific Oceans and <i>S. sahulensis</i> for humpback dolphins in the waters of the Sahul Shelf from northern Australia to southern New Guinea (Jefferson and Rosenbaum, 2014). The Australian humpback dolphin is listed as <i>S. chinensis</i> under EPBC Act. The Australian humpback dolphin (referred to as 'humpback dolphin' hereafter) inhabits the tropical/subtropical waters of the Sahul Shelf across northern Australia and southern Papua New Guinea (Jefferson and Rosenbaum, 2014). Based on historical stranding data, museum specimens and opportunistic sightings collected during aerial and boat-based surveys for other fauna it has been inferred that humpback dolphins occur from the WA/NT border south-west to Shark Bay (Hanf <i>et al.</i> , 2016). Allen <i>et al.</i> (2012) suggested that humpback dolphins use a range of inshore habitats, including both clear and turbid coastal waters across northern WA. The waters surrounding North-west Cape are an important area for the species. Boat-based surveys up to 5 km out from the coast (Brown <i>et al.</i> , 2012) recorded humpback dolphins from 0.3 to 4.5 km away from shore and in depths ranging from 1.2 to 20 m, with a mean of ~8 m. Other studies around North-west Cape, surveying waters up to 5 km from the coast, recorded humpback dolphins in water depths of up to 40 m (Hanf <i>et al.</i> , 2016). Based on density, site fidelity and residence patterns, North-west Cape is clearly an important habitat toward the south-western limit of this species' range (Hunt <i>et al.</i> , 2017). Aerial surveys targeting dugongs over the western Pilbara have recorded humpback dolphins more than 60 km from the mainland in shallow shelf waters (i.e. <30 m deep) near Barrow Island and the western Lowendal Islands (Hanf, 2015). The species has also been recorded in fringing coral reef and shallow, sheltered sandy lag
Indo-Pacific bottlenose dolphin (Spotted bottlenose dolphin)	There are four known sub-populations of spotted bottlenose dolphins, of which the Arafura/Timor Sea populations were identified as potentially occurring within the NWMR. The species is restricted to inshore areas such as bays and estuaries, nearshore waters, open coast environments, and shallow offshore waters including coastal areas around oceanic islands, from Shark Bay to the western edge of the Gulf of Carpentaria. The species

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Species	Key Information		
	forages in a range of habitats but is generally restricted to water depths of less than 200 m (DSEWPAC, 2012a). Important foraging/breeding areas include the shallow coastal waters and estuaries along the Kimberley coast and Roebuck Bay. Refer Table 7-3 the location and type of BIAs for spotted bottlenose dolphins in the NWMR.		
	Sirenians		
Dugong	Dugongs are distributed along the WA coast throughout the Gascoyne, Pilbara and Kimberley. Specific areas supporting dugong populations include: Shark Bay; Ningaloo and Exmouth Gulf; the Pilbara coast (Exmouth Gulf to De Grey River [Marsh <i>et al.</i> , 2002]); and Eighty Mile Beach and the Kimberley coast, including Roebuck Bay (Brown <i>et al.</i> , 2014). Dugong distribution is correlated with the seagrass habitats upon which it feeds, although water temperature has also been correlated with dugong movements and distribution (Preen <i>et al.</i> , 1997; Preen, 2004). Dugongs are known to migrate between seagrass habitats (hundreds of kilometres) (Sheppard <i>et al.</i> , 2006), and in Shark Bay they exhibit seasonal movements as a behavioural thermoregulatory response to winter water temperatures (Holley <i>et al.</i> , 2006; Marsh <i>et al.</i> , 2011). Aerial surveys since the mid-1980s indicate that dugong populations are now stable at a regional scale in Shark Bay and in the Exmouth/Ningaloo Reef. Refer Table 7-3 and Figure 7-5 for the location and type of BIAs for dugong in the NWMR.		
	Pinnipeds		
Australian sea lion	The Australian sea lion is the only endemic pinniped (true seals, fur seals and sea lions) in Australian waters. It is a member of the Otariidae (eared seals) family. The birth interval in Australian sea lions is around 17–18 months. The Australian sea lion is unique among pinnipeds in being the only species that has a non-annual breeding cycle that is also temporally asynchronous across its range (DSEWPAC, 2013a; Threatened Species Scientific Committee, 2020a). This means the breeding period (copulation and birthing) in one colony will occur at different times to breeding in another colony. The Australian sea lion is considered to be a specialised benthic forager—that is, it feeds primarily on the sea floor. Studies have shown that the species will eat a range of prey, including fish, cephalopods (squid, cuttlefish and octopus), sharks, rays, rock lobsters and penguins (DSEWPAC, 2013a; Threatened Species Scientific Committee, 2020a). The Australian sea lion feeds on the continental shelf, most commonly in depths of 20–100 m, and they typically travel up to about 60 km from their colony on each foraging trip, with a maximum distance of around 190 km when over shelf waters. The current breeding distribution of the Australian sea lion extends from the Houtman Abrolhos Islands on the west coast of WA to the Pages Islands in SA. Sites for the 58 breeding colonies occurring in WA and SA are designated as habitat critical to the survival of the species under the Recovery Plan for the Australian sea lion (DSEWPAC, 2013a). Of these, four are located in the SWMR along the west coast of WA: Abrolhos Islands (Easter Group), Beagle Island, North Fisherman Island and Buller Island. There are also a number of foraging BIAs for both males and females along the west coast,		
	extending from the Abrolhos Islands south to Rockingham. There is no designated habitat critical to survival or identified BIAs for this species in the NWMR. Figure 7-6 shows the foraging BIAs for the Australian sea lion to the south of the NWMR.		

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7.5 Biological Important Areas in the NWMR

BIAs representing important life cycle stages and behaviours for six species of marine mammal in the NWMR: the humpback whale, the pygmy blue whale, Australian snubfin dolphin, Australian humpback dolphin, spotted bottlenose dolphin and dugong, are presented in **Table 7-3**.

Table 7-3 Marine mammal BIAs within the NWMR

Species	Wood	dside Ac Area	tivity	BIAs							
•	Browse	NWS/S	NWC	Resting	Foraging	Breeding	Calving	Migration			
Humpback whale ¹	✓ 	✓	✓	Shark Bay Exmouth Gulf (north migration – early June) (south migration – late Aug to Oct) Southern Kimberley region	No foraging BIA identified within the NWMR	Kimberley coast from the Lacepede Islands to north of Camden Sound (mid Aug – early Sept)	Core calving in waters off the Kimberley coast from the Lacepede Islands to north of Camden Sound (mid Aug – early Sept)	Southern border of the NWMR to north of the Kimberley (arrive June)			
Blue whale and Pygmy blue whale ¹	✓ ————————————————————————————————————	✓	✓	No resting BIA identified within the NWMR	Possible foraging areas off Ningaloo and Scott Reef	No breeding BIA identified within the NWMR	No calving BIA identified within the NWMR	Augusta to Derby. Along the shelf edge at depths of 500 m to 1000 m; appear close to Ningaloo coast Montebello Islands area on southern migration (north: April – Aug) (south: Oct – late Dec)			
Australian snubfin dolphin ¹		✓	-	No resting BIA identified within the NWMR	Roebuck Bay Cambridge Gulf Camden Sound area King Sound (south) King Sound (north) Yampi Sound Talbot Bay Maret Islands Bigge Island Admiralty Gulf Parry Harbour Bougainville Peninsula Vansittart Bay Anjo Peninsula Napier	Roebuck Bay Cambridge Gulf Camden Sound area King Sound (south) King Sound (north) Yampi Sound Talbot Bay Maret Islands Bigge Island Admiralty Gulf Parry Harbour Bougainville Peninsula Vansittart Bay, Anjo Peninsula Napier Broome Bay Deep Bay Prince Regent River King George River Cape Londonderry	Roebuck Bay Cambridge Gulf Camden Sound area King Sound (south) King Sound (north) Yampi Sound Talbot Bay Maret Islands Bigge Island Admiralty Gulf Parry Harbour Bougainville Peninsula Vansittart Bay Anjo Peninsula Napier Broome Bay Deep Bay Prince Regent River	No migration BIA identified within the NWMR			

Species	Woodside Activity Area			BIAs						
•	Browse	NWS/S	NWC	Resting	Foraging	Breeding	Calving	Migration		
					Broome Bay Deep Bay Prince Regent River King George River Cape Londonderry Ord River	Ord River	King George River Cape Londonderry Ord River			
Indo-Pacific humpback dolphin	✓ ·	✓	-	No resting BIA identified within the NWMR	Roebuck Bay Willie Creek Prince Regent River King Sound (north) Yampi Sound Talbot Bay Walcott Inlet Doubtful Bay Deception Bay Augustus Island Maret Islands Bigge Island King Sound, southern sector Vansittart Bay, Anjo Peninsula	Roebuck Bay Willie Creek Prince Regent River King Sound (north) Yampi Sound Talbot Bay Walcott Inlet Doubtful Bay Deception Bay Augustus Island	Roebuck Bay Willie Creek Prince Regent River	No migration BIA identified within the NWMR		
Spotted bottlenose dolphin	√	1	√	No resting BIA identified within the NWMR	Roebuck Bay Cambridge Gulf Camden Sound area King Sound (south) King Sound (north) Yampi Sound	Roebuck Bay Cambridge Gulf Camden Sound area King Sound (south) King Sound (north) Yampi Sound	No calving BIA identified within the NWMR	No migration BIA identified within the NWMR		

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Species	Wood	dside Act Area	tivity		BIAs					
	Browse	NWS/S	NWC	Resting	Foraging	Breeding	Calving	Migration		
Dugong ¹	✓	√	✓	No resting BIA identified within the NWMR	Exmouth Gulf Ningaloo Reef Shark Bay Roebuck Bay Dampier Peninsula	No breeding BIA identified within the NWMR	Exmouth Gulf Ningaloo Reef Shark Bay	Not listed as a migratory species		

^{1.} DSEWPAC (2012a)

^{2.} Commonwealth of Australia (2015a)

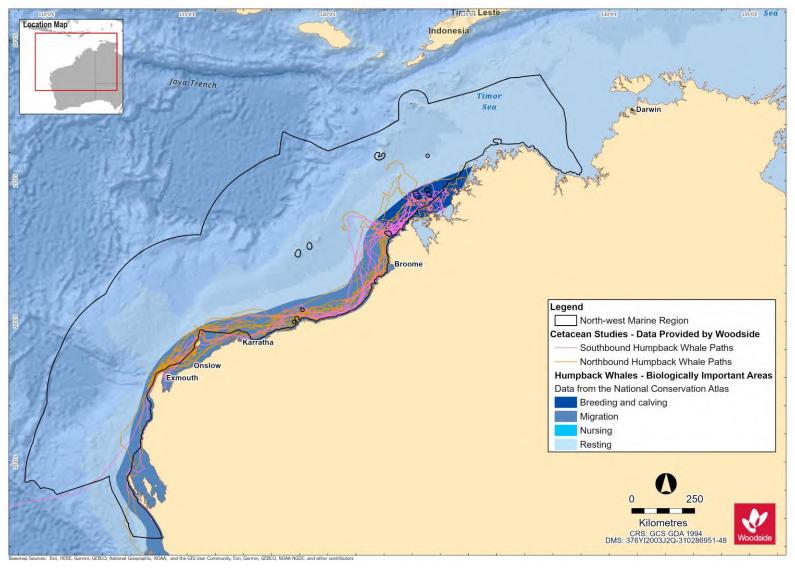


Figure 7-1 Humpback whale BIAs for the NWMR and tagged tracks for north and south bound migrations

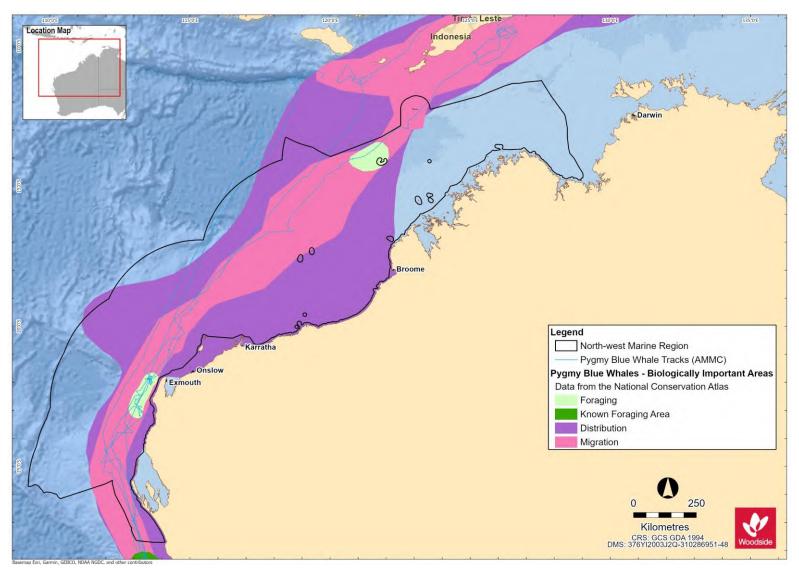


Figure 7-2 Pygmy blue whale BIAs for the NWMR and tagged whale tracks for northbound migration

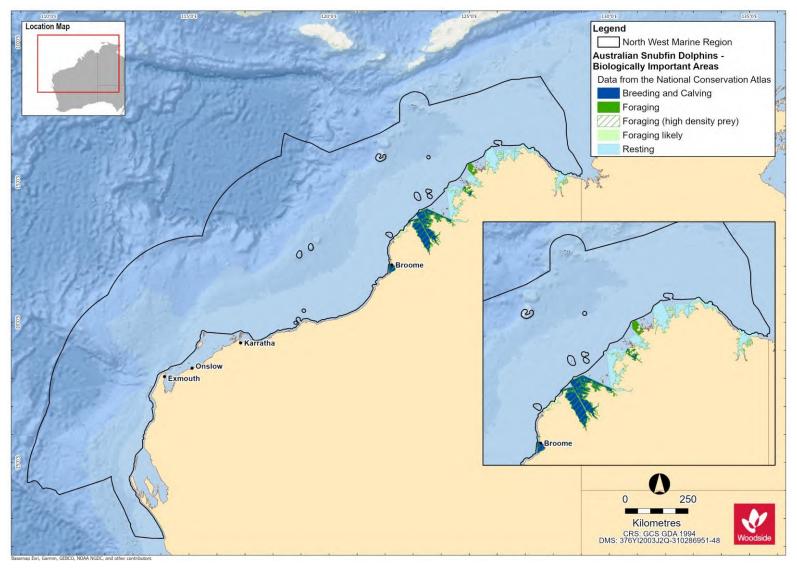


Figure 7-3 Australian snubfin dolphin BIAs for the NWMR

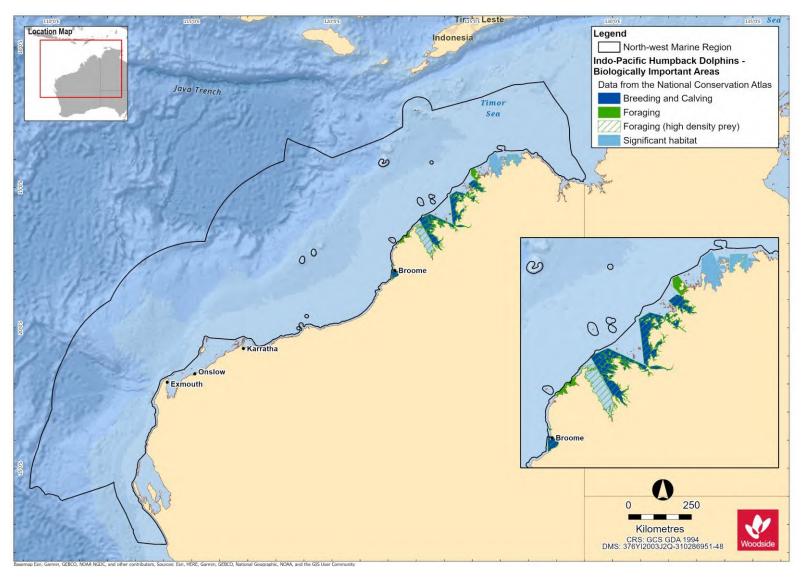


Figure 7-4 Indo-Pacific humpback dolphin BIAs for the NWMR

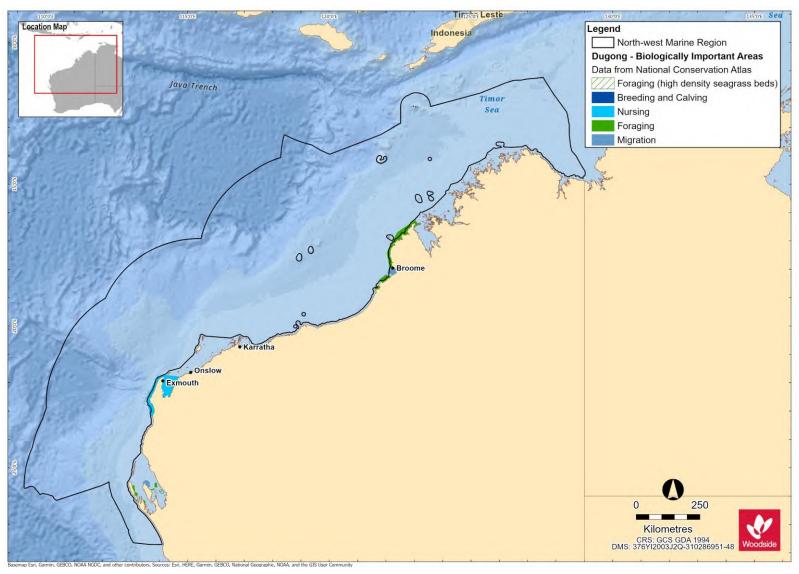


Figure 7-5 Dugong BIAs for the NWMR

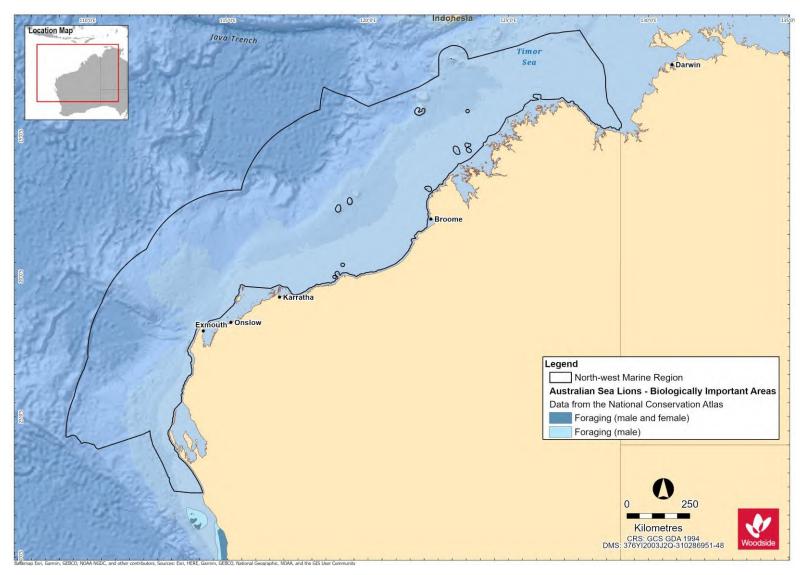


Figure 7-6 Australian sea lion BIAs in the northern extent of the SWMR closest to the NWMR

7.6 Marine Mammal Summary for the NWMR

7.6.1 **Browse**

The Browse activity area includes biologically important habitat for five threatened and/or migratory marine mammal species:

- blue whale and pygmy blue whale (foraging and migration areas);
- humpback whale (breeding, calving and migration areas);
- Indo-Pacific humpback dolphin (foraging, breeding and calving areas);
- Australian snubfin dolphin (foraging, breeding and calving areas); and
- dugong (foraging).

BIAs for the marine mammal species are outlined in **Table 7-3**.

7.6.2 North-west Shelf / Scarborough

The NWS / Scarborough activity area includes biologically important habitat for five threatened and/or migratory marine mammal species:

- blue whale and pygmy blue whale (foraging and migration areas);
- humpback whale (resting and migration areas);
- Indo-Pacific humpback dolphin (foraging, breeding and calving areas);
- Australian snubfin dolphin (foraging, breeding and calving areas); and
- dugong (foraging and calving areas).

BIAs for the marine mammal species are outlined in **Table 7-3**.

7.6.3 North-west Cape

The North-west Cape activity area includes biologically important habitat for three threatened and/or migratory marine mammal species:

- blue whale and pygmy blue whale (foraging and migration areas);
- humpback whale (resting and migration areas); and
- dugong (foraging and calving areas).

BIAs for the marine mammal species are outlined in **Table 7-3**.

8. SEABIRDS AND MIGRATORY SHOREBIRDS OF THE NWMR

8.1 Regional Context

The NWMR supports high numbers and species diversity of seabirds and migratory shorebirds including many that are EPBC Act listed, threatened and migratory. The NWMR marine bioregional plan reported 34 seabird species (listed as threatened, migratory and/or marine) that are known to occur, and 30 of 37 species of migratory shorebird species that regularly occur in Australia, are recorded at Ashmore Reef in the NWMR (DSEWPAC, 2012e). The NWMR marine bioregional plan also noted that Roebuck Bay and Eighty Mile Beach are internationally significant and recognised migratory shorebird locations.

Many migratory seabirds and shorebirds are protected through bilateral agreements between Australia and Japan (JAMBA), China (CAMBA) and the Republic of Korea (ROKAMBA), recognising the migratory route and important stopover and resting habitats of the East Asian-Australasian Flyway (EAAF). Important migratory bird habitats are also recognised as part of protected wetlands of the internationally significance under the Ramsar Convention. Important Bird Areas (IBAs) for the NWMR, which are also recognised as global Key Biodiversity Areas (KBAs) (BirdLife Australia⁴), include:

- Roebuck Bay KBA (and Ramsar site): Internationally significant migratory shorebird species.
- Mandora Marsh and Anna Plains KBA (adjacent to Eighty Mile Beach, Ramsar site): Internationally significant migratory shorebird species.
- Dampier Saltworks KBA: Internationally significant migratory shorebird species.
- Montebello Islands KBA: Shorebird and seabird species.
- Barrow Island KBA: Shorebird and seabird species.
- Exmouth Gulf Mangroves KBA: Internationally significant migratory shorebird species.

Table 8-1 presents a list of the threatened and migratory seabird and shorebird species that occur within the NWMR, with their conservation status and relevant recovery plans and/or conservation advice.

4

 $\frac{https://www.birdlife.org.au/projects/KBA\#:\sim:text=The\%20Key\%20Biodiversity\%20Areas\%20(KBAs,of\%20adwocacy\%20for\%20protected\%20areas.$

Accessed April, 2021.

Table 8-1. Bird species (threatened/migratory) identified by the EPBC Act PMST and other sources of information as potentially occurring within the NWMR

Species Name	Common Name	Environment Pro	otection and Biorvation Act 1999		WA Biodiversity Conservation Act 2016	EPBC Act Part 13 Statutory Instrument	
		Threatened Status	Migratory Status	Listed	Conservation Status	Statutory mistrument	
			Seabirds				
Macronectes giganteus	Southern giant petrel	Endangered	Migratory	Marine	Migratory	National recovery plan for threatened albatrosses and giant petrels 2011-2016 (DSEWPAC, 2011c)	
Papasula abbotti	Abbott's booby	Endangered	N/A	Marine	N/A	Conservation Advice for the Abbott's booby - Papasula abbotti (Threatened Species Scientific Committee, 2020b)	
Pterodroma mollis	Soft-plumaged petrel	Vulnerable	N/A	Marine	N/A	Conservation Advice Pterodroma mollis soft-plumaged petrel (Threatened Species Scientific Committee, 2015f)	
Sternula nereis nereis	Australian fairy tern	Vulnerable	N/A	N/A	Vulnerable	Conservation Advice for Sternula nereis nereis (Fairy Tern) (DSEWPAC, 2011d)	
Anous tenuirostris melanops	Australian lesser noddy	Vulnerable	N/A	Marine	Endangered	Conservation Advice Anous tenuirostris melanops Australian lesser noddy (Threatened Species Scientific Committee, 2015e)	
Thalassarche carteri	Indian yellow-nosed albatross	Vulnerable	Migratory	Marine	Endangered	National recovery plan for threatened albatrosses and giant petrels 2011-2016 (DSEWPAC, 2011c)	
Anous stolidus	Common noddy	N/A	Migratory	Marine	Migratory	Draft Wildlife Conservation Plan	
Fregata ariel	Lesser frigatebird	N/A	Migratory	Marine	Migratory	for Seabirds (Commonwealth of	
Fregata minor	Great frigatebird	N/A	Migratory	Marine	Migratory	Australia, 2019)	
Sula leucogaster	Brown booby	N/A	Migratory	Marine	Migratory		
Sula sula	Red-footed booby	N/A	Migratory	Marine	Migratory		

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Species Name	Common Name	Environment Pr Conse	otection and Bi rvation Act 1999		WA Biodiversity Conservation Act 2016	EPBC Act Part 13 Statutory Instrument	
		Threatened Status	Migratory Status	Listed	Conservation Status	Statutory mistrument	
Onychiprion anaethetus (listed as Sterna anaethetus)	Bridled tern	N/A	Migratory	Marine	Migratory		
Thalasseus bergii	Greater crested tern	N/A	Migratory	Marine	Migratory		
Sternula albifrons	Little tern	N/A	Migratory	Marine	Migratory		
Sterna dougallii	Roseate tern	N/A	Migratory	Marine	Migratory		
Onychoprion fuscata	Sooty tern	N/A	N/A	Marine	N/A		
Hydroprogne caspia	Caspian tern	N/A	Migratory	Marine	Migratory		
Ardenna pacifica	Wedge-tailed shearwater	N/A	Migratory	Marine	Migratory		
Puffinus assimillis	Little shearwater	N/A	N/A	Marine	N/A		
Ardenna carneipes	Flesh-footed shearwater	N/A	Migratory	Marine	Vulnerable		
Calonectris leucomelas	Streaked shearwater	N/A	Migratory	Marine	Migratory		
Phaethon lepturus	White-tailed tropicbird	N/A	Migratory	Marine	Migratory		
Chroicocephalus novaehollandiase	Silver gull	N/A	N/A	Marine	N/A		
		Mig	ratory shorebirds	s			
Numenius madagascariensis	Eastern curlew, Far Eastern curlew	Critically endangered	Migratory	Marine	Critically endangered	Conservation Advice <i>Numenius</i> madagascariensis eastern curlew (DOE, 2015a)	
Calidris ferruginea	Curlew sandpiper	Critically endangered	Migratory	Marine	Critically endangered	Conservation Advice <i>Calidris</i> ferruginea curlew sandpiper (DOE, 2015b)	
Calidris tenuirostris	Great knot	Critically endangered	Migratory	Marine	Critically endangered	Conservation Advice Calidris tenuirostris Great knot (Threatened Species Scientific Committee, 2016a)	
Limosa lapponica menzbieri	Bar-tailed godwit (menzbieri)	Critically endangered	Migratory	Marine	Critically endangered	Conservation Advice Limosa lapponica menzbieri Bar-tailed godwit (northern Siberia). (Threatened Species Scientific Committee, 2016c)	

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Species Name	Common Name	Environment Pro Conse	otection and Bio rvation Act 1999	_	WA Biodiversity Conservation Act 2016	EPBC Act Part 13 Statutory Instrument
		Threatened Status	Migratory Status	Listed	Conservation Status	Statutory instrument
Calidris canutus	Red knot	Endangered	Migratory	Marine	Endangered	Conservation Advice Calidris canutus Red knot (Threatened Species Scientific Committee, 2016b)
Charadrius mongolus	Lesser sand plover	Endangered	Migratory	Marine	Endangered	Conservation Advice Charadrius mongolus Lesser sand plover (Threatened Species Scientific Committee, 2016e)
Charadrius leschenaultii	Greater sand plover	Vulnerable	Migratory	Marine	Vulnerable	Conservation Advice Charadrius leschenaultia Greater sand plover (Threatened Species Scientific Committee, 2016d)
All migratory shorebird species	Wildlife Conservation Plan	for Migratory Shorebirds (Commonwealth of Au	ustralia, 2015c)		

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8.2 Seabirds in the NWMR

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Seabirds are birds that are adapted to life within the marine environment (oceanic and coastal) and are generally long-lived, have delayed breeding and have fewer young than other bird species (Commonwealth of Australia, 2019). At least 34 seabird species listed as threatened, migratory and/or marine under the EPBC Act are known to occur regularly in the NWMR and include a variety of species of terns, noddies, petrels, shearwaters, frigatebirds, and boobies. Many of these species spend most of their lives at sea (predominately pelagic species), ranging over large distances to forage. These pelagic species only come onshore to breed and raise chicks at natal or high-fidelity breeding colonies on remote, offshore island locations in and adjacent to the NWMR. Many species are ecologically significant to the NWMR, as they are endemic to the region, can be present in large numbers in breeding seasons and non-breeding seasons, and many exhibit extensive annual migrations that include marine areas outside the Australian EEZ (DSEWPAC, 2012e).

The presence of seabirds within the NWMR is influenced by seabird species that migrate and forage in the area during the non-breeding season and this includes many seabird species that breed on the Houtman Abrolhos in the SWMR. Pelagic seabirds have been documented foraging at current boundaries and seasonal upwellings within the NWMR (refer to Sutton *et al.*, 2019). The Houtman Abrolhos Islands National Park located in the SWMR, is one of the most significant seabird breeding locations in the eastern Indian Ocean. Sixteen (16) species of seabirds breed there. Eighty percent of common (brown) noddies, 40% of sooty terns and all the lesser noddies found in Australia nest at the Houtman Abrolhos (Surman, 2019). Important seabird areas in the NWMR are as identified by the KBAs (refer to **Section 8.1**) and the information on a select number of seabird species documented for the NWMR (based on the screening criteria presented in **Section 3**), as presented in **Table 8-2**.

Table 8-2 Information on threatened/migratory seabird species of the NWMR

Key Information								
Seabirds								
This species is included in the National recovery plan for threatened albatrosses and giant petrels. Habitat critical to survival is defined for breeding and foraging. There are six known breeding localities under Australian jurisdiction (for all species giant petrels) and all are located in the Southern Ocean including islands off Tasmania and within the Australian Antarctic Territory (DSEWPAC, 2011c). Habitat critical to survival identified for foraging is defined as waters south of 25 degrees latitude. The giant petrel species distribution is mainly within the Southern Ocean but this species does migrate into subtropical waters during the winter and its distribution includes the southern extent of the NWMR. No BIAs for this species are located in the NWMR.								
The Abbott's booby is a large, long-lived seabird known to nest only at Christmas Island. The recovery of this species is strongly dependent on the protection of breeding habitat defined habitat critical to the survival of this species on Christmas Island (Threatened Species Scientific Committee, 2020b). This species spends much of its time at sea and known to forage over large distances offshore when nesting and its range includes off the coast of Java, near the Chagos and in the Banda Sea, and may possibly extend into the northwestern extent of the NWMR. No BIAs for this species are located in the NWMR.								
This petrel species breeds only at two locations in Australian waters within the Southern Ocean (one off Tasmania and Macquarie Island) (Threatened Species Scientific Committee, 2015f). As a mainly sub-Antarctic species they are usually distributed in cooler seas but distribution extents into subtropical waters and its known distribution includes the southern extent of the NWMR. No BIAs for this species are located in the NWMR.								
The Australian fairy tern is listed as Vulnerable for the sub-species only recorded for WA. It has a coastal distribution from Sydney, south to Tasmania and around southern WA up to the Dampier Archipelago and out on the offshore island groups of Barrow, Montebello and the Lowendals (DSEWPAC, 2011d). The Australian fairy tern feeds on small baitfish and roosts and nests on sandy beaches below vegetation. These behaviours, generally, occur in inshore waters of island archipelagos and on the Australian mainland shores and adjacent wetlands. Fairy terns breed from August to February. The Australian fairy tern is unlikely to be present								

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Species	Key Information
	within the offshore environment of the NWMR. The largest breeding colony in Western Australia for this species is in the Houtman Abrolhos Islands, SWMR (Surman, 2019).
	For the description and location of BIAs in the NWMR, refer to Table 8-3 and Figure 8-2 .
Australian lesser noddy	The Houtman Abrolhos, WA is an important breeding habitat for the Australian lesser noddy in the eastern Indian Ocean. This species exhibits nesting habitat specialisation (white mangrove stands) and has a limited foraging range during the breeding season. Furthermore, the lesser noddy forages over shelf waters and appears not to disperse over their non-breeding period as they remain largely in the general vicinity or slightly to the south of the colony in the non-breeding season (February to September; Surman <i>et al.</i> , 2018). No BIAs for this species are located in the NWMR.
Indian yellow-nosed albatross	This species is included in the National recovery plan for threatened albatrosses and giant petrels. Habitat critical to survival is defined for breeding and foraging. There are six known breeding localities under Australian jurisdiction (for all species of albatrosses) and all are located in the Southern Ocean including islands off Tasmania and within the Australian Antarctic Territory (DSEWPAC, 2011c). Habitat critical to survival identified for foraging is defined as waters south of 25 degrees latitude. All albatross species distribution (including the Indian yellow-nose albatross) is mainly within the Southern Ocean but this species does migrate into subtropical waters during the winter and its distribution includes the southern extent of the NWMR. No BIAs for this species are located in the NWMR.
Common noddy	This species is listed as migratory and marine. The common (or brown) noddy is the largest species of noddy found in Australian waters. The species is widespread in tropical and subtropical areas beyond Australia. This seabird species is gregarious and normally occurs in flocks, up to hundreds of individuals, when feeding or roosting. The Houtman Abrolhos, WA is the primary breeding habitat for the common noddy in the Eastern Indian Ocean. This species spends their non-breeding season (March to August) in the NWS area, around 950 km north from the breeding colony (Surman <i>et al.</i> 2018). The species occurs within NWMR waters, particularly around offshore islands such as the Montebello Island group. This species is recorded on unmanned oil and gas platforms within the NWS. No BIAs for this species are located in the NWMR.
Lesser frigatebird Great frigatebird	Both species of frigatebird are listed as migratory and marine. Within the NWMR, the lesser frigatebird is known to breed on Adele, Bedout and West Lacepede islands, Ashmore Reef and Cartier Island (Commonwealth of Australia, 2019). The lesser frigatebird feeds mostly on fish and sometimes cephalopods, and all food is taken while the bird is in flight. Lesser frigatebirds generally forage close to breeding colonies. Breeding/foraging BIAs for the lesser frigatebird are located in the NWMR; refer to Table 8-3 .
Brown booby	The brown booby is the most common booby, occurring throughout all tropical oceans bounded by latitudes 30° N and 30° S. There are large colonies on offshore islands within the NWMR such as the Lacepede Islands (one of the largest colonies in the world), Ashmore Reef, and other offshore Kimberley islands. This seabird species is a specialised plunge diver, mostly eating fish and some cephalopods (Commonwealth of Australia, 2019). Breeding/foraging BIAs for the brown booby are located in the NWMR; refer to Table 8-3 and Figure 8-3 .
Red-footed booby	Within the NWMR, its known breeding sites for this species include Ashmore Reef and Cartier Island. It is a pelagic species and generally occurs away from land. It mainly eats flying fish and squid. Prey abundance is reliant on the high productivity in slope areas off remote islands where the birds breed (Commonwealth of Australia, 2019). Breeding/foraging BIAs for the red-footed booby are located in the NWMR; refer to Table 8-3 and Figure 8-3 .
Greater crested tern	The greater crested tern has a widespread distribution recorded on islands and coastlines of tropical and subtropical areas, ranging from the Atlantic coast of South Africa, Indian Ocean and through south-east Asia and Australia. Outside the breeding season it can be found at sea throughout its range, with the exception of the central Indian Ocean (Commonwealth of Australia, 2019). The largest breeding colony in WA for this species is the Houtman Abrolhos Islands, SWMR (Surman, 2019). No BIAs for this species are located in the NWMR.
Little tern	There are three sub-populations of this species in Australia and two of these occur in the NWMR: northern Australian breeding sub-population occurring around Broome and extending across in to the NMR, and an east Asian breeding sub-population, with the terns present from Shark Bay to south-eastern Queensland during the austral summer. Little terns

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Species	Key Information
	usually forage close to breeding colonies in the shallow water of estuaries (Commonwealth of Australia, 2019).
	For the description and location of BIAs in the NWMR, refer to Table 8-3 and Figure 8-2 .
Roseate tern	This species is generally tropical in distribution and there are many breeding populations in the NWMR, including Ashmore Reef, Napier Broome Bay, Bonaparte Archipelago, Lacepede Islands, Dampier Archipelago and the Lowendal Islands. A large number of non-breeding roseate terns have been observed at several remote locations in the Kimberley and there are high numbers also recorded for Eighty Mile Beach Ramsar site. The Kimberley colonies are likely to be another sub-species that breeds in east Asia. Roseate terns predominately eat small pelagic fish (Commonwealth of Australia, 2019). The largest breeding colony in Western Australia for this species is in the Houtman Abrolhos Islands, SWMR (Surman, 2019). For the description and location of BIAs in the NWMR, refer to Table 8-3 and Figure 8-2 .
Wedge-tailed shearwater	The wedge-tailed shearwater is a pelagic, marine seabird known from tropical and subtropical waters. Its distribution is widespread across the Indian and Pacific oceans. It is known to breed on the east and west coasts (and offshore islands) of Australia. This species is known to consume fish, cephalopods, and other biota primarily via contact-dipping. Wedge-tailed shearwaters are now understood to undertake extensive foraging trips (over thousands of kilometres over periods of days when chicking and provisioning young) and much longer and extensive pelagic travels over the north-west Indian Ocean during the non-breeding season, targeting current boundaries and upwellings. The species breeds throughout its range, mainly on vegetated islands, atolls and cays and excavates burrows in the ground where chicks are raised (Commonwealth of Australia, 2019). Large breeding colonies of the wedge-tailed shearwater are located on the Houtman Abrolhos islands (SWMR) (Surman et al., 2018) and several locations in the NWMR including: Muiron Islands (North-west Cape), Varanus Island and the Dampier Archipelago in the Pilbara where burrow numbers were estimated to several hundred thousand to half a million such as on the Muiron Islands, though it is not known if all burrows are utilised on an annual basis (Birdlife Australia, 2018; Surman et al., 2018). Cannell et al (2019) satellite tracked adult wedge-tailed shearwaters during egg incubation and chick rearing on the Muiron Islands in January 2018. For the incubation trips, there was a strong consistency for the birds to travel towards seamounts, typically located north-west of the Muiron Islands, between Australia and Indonesia. One bird however remained south-west of the islands, in the Cape Range Canyon. A similar pattern to utilise areas associated with sea mounts was also observed for the long foraging trips during chick rearing, though some of the foraging was concentrated in deeper waters. A bimodal foraging strategy during chick-rearing was observed, with adults under
Flesh-footed shearwater	The species mainly occurs in the subtropics, over continental shelves and slopes and occasionally inshore waters, with individual birds pass through the tropics and over deeper waters during migration to the North Pacific and Indian oceans (Commonwealth of Australia, 2019). They are a common visitor to the waters off southern Australia, from south-western WA to south-eastern Queensland. The fleshy-footed shearwater is a trans-equatorial migrant, breeding from late September to May off south-western Australia, and migrating north by early May, across the southern Indian and possibly Indonesia to the northern Pacific Ocean. No BIAs for the flesh-footed shearwater are located in the NWMR.
Streaked shearwater	The streaked shearwater has a broad distribution in the western Pacific Ocean, breeding on the coast and offshore islands of Japan, Russia, China and the Korean Peninsula. During winter months (non-breeding season), the species undertakes trans-equatorial migration to the coasts of Vietnam, New Guinea, the Philippines, Australia, southern India and Sri Lanka. The streaked shearwater feeds mainly on fish and squid that it catches by surface-seizing and shallow plunges (Commonwealth of Australia, 2019). No BIAs for the streaked shearwater are located in the NWMR.
White-tailed tropicbird	Tropicbirds are predominately pelagic species and the white-tailed tropicbird forages in warm waters and over long distances (pan-tropical). The species is most common off north-west Australia. In the NWMR, this species is considered a sub-species and are limited in number and distribution. Nesting sites are known for Clerke Reef (Rowley Shoals) and Ashmore

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Species	Key Information
	Reef. Christmas Island is also a known nesting site and the species can disperse several thousand kilometres during foraging trips. This species feeds mainly on fish and cephalopods, captured by deep plunge diving (Commonwealth of Australia, 2019). There are breeding BIAs at the Rowley Shoals and Ashmore Reef within the NWMR for the white-tailed tropicbird; refer to Table 8-3 .
Silver gull	The silver gull is typically described as an inshore and coastal foraging seabird and has an Australian-wide distribution including locations within the NWMR. It is noted as it has been recorded on unmanned oil and gas platforms located within the NWS.

8.2.1 Biologically Important Areas in the NWMR

BIAs representing important life cycle stages and behaviours for eight species of seabird in the NWMR are presented in **Table 8-3**.

Table 8-3 Seabird BIAs within the NWMR

Cookind Chooice	Woods	side Activity	Area	BIAs				
Seabird Species	Browse NWS/S		NWC	Breeding/foraging	Foraging	Breeding	ng Resting	
Australia fairy tern	-	✓	✓	-	No foraging BIAs in the NWMR Foraging in high numbers: the BIA is located in the SWMR including the Houtman Abrolhos Islands	Dampier Archipelago, Montebello, Lowendal and Barrow Island Groups, south Ningaloo and barrier island of Shark Bay	-	
Wedge-tailed shearwater	✓	√	√	Widespread area of the NWMR offshore and inshore waters	Foraging in high numbers: the BIA is located in the SWMR including the Houtman Abrolhos Islands	-	-	
Great frigatebird	✓	-	-	Ashmore Reef, Adele Island	-	-	-	
Lesser frigatebird	✓	1	-	Off Eighty Mile Beach, Lacepedes, Adele Island, North Kimberley and Ashmore Reef	-	-	-	
Brown booby	✓	✓	-	Off Eighty Mile Beach, Lacepedes, Adele Island, North Kimberley and Ashmore Reef	-	-	-	
Red-footed booby	✓	-	-	Adele Island, Ashmore Reef	-	-	-	
Little tern	✓	✓	-	Rowley Shoals, Adele Island	-	-	-	
Roseate tern	✓	✓	1	-	No foraging BIAs in the NWMR Foraging (provisioning young) and foraging BIAs located in the SWMR – Houtman Abrolhos Islands the	Dampier Archipelago, Montebello, Lowendal and Barrow Island Groups, south Ningaloo and barrier island of Shark Bay	Eighty Mile Beach	

Soobird Species	Woodside Activity Area			BIAs			
Seabird Species	Browse	NWS/S	NWC	Breeding/foraging	Foraging	Breeding	Resting
					nearest BIA to the NWMR		
White-tailed tropicbird	√	1	-			Rowley Shoals Ashmore Reef	

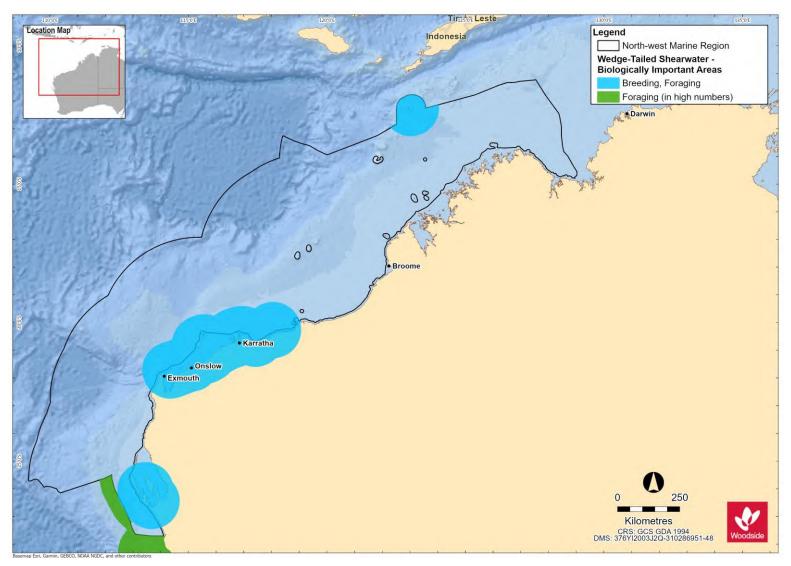


Figure 8-1 Wedge-tailed shearwater BIAs for the NWMR

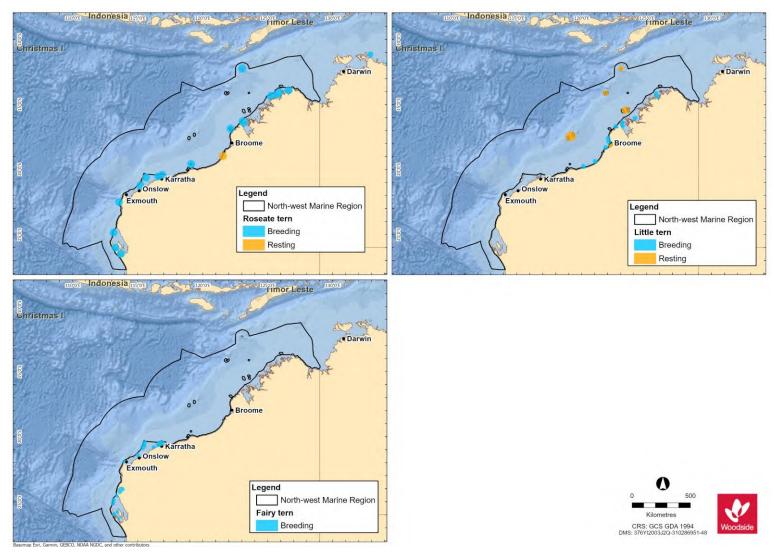


Figure 8-2 Tern species BIAs for the NWMR

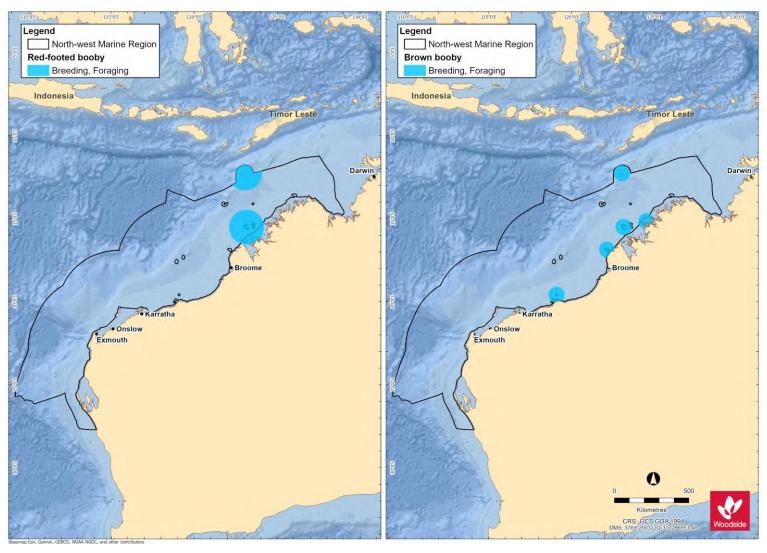


Figure 8-3 Red-footed and brown booby BIAs for the NWMR

8.2.2 Seabird Summary for NWMR

8.2.2.1 Browse

The Browse activity area includes biologically important habitat for seven threatened and/or migratory seabird species:

- wedge-tailed shearwater (breeding/foraging);
- great and lesser frigatebirds (breeding/foraging);
- brown booby (breeding/foraging);
- red-footed booby (breeding/foraging);
- little tern (breeding/foraging);
- · roseate tern (breeding and resting); and,
- white-tailed tropicbird (breeding).

BIAs for the seabird species are outlined in Table 8-3.

8.2.2.2 NWS / Scarborough

The NWS / Scarborough activity area includes biologically important habitat for five threatened and/or migratory seabird species:

- wedge-tailed shearwater (breeding/foraging);
- lesser frigatebird (breeding/foraging);
- brown booby (breeding/foraging);
- little tern (breeding/foraging); and
- roseate tern (breeding and resting).

BIAs for the seabird species are outlined in **Table 8-3**.

8.2.2.3 North-west Cape

The North-west Cape activity area includes biologically important habitat for five threatened and/or migratory seabird species:

- Australian fairy tern (breeding);
- wedge-tailed shearwater (breeding/foraging); and
- roseate tern (breeding and resting).

BIAs for the seabird species are outlined in **Table 8-3**.

8.3 Shorebirds

Shorebirds (migratory and resident species) are generally associated with wetland or coastal environments, and the NWMR hosts a large number of many shorebird species, particularly in the Austral summer (refer to **Appendix A** for the EPBC Act PMST reports on listed species of shorebirds). Shorebirds may use coastal environments for feeding, nesting or migratory stopovers. In coastal environments, shorebirds generally feed during low tide on exposed intertidal mud and sand flats, and roost in suitable habitat above the high water mark. Many shorebird species undergo annual migrations, typically breeding at high latitudes of the Northern Hemisphere and migrating south for the non-breeding season and Australia is part of the East Asian-Australasian Flyway (EAAF). The EAAF extends from breeding grounds in the Russian tundra, Mongolia and Alaska

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southwards through east and south-east Asia, to non-breeding areas of Indonesia, Papua New Guinea, Australia and New Zealand (Weller and Lee, 2017). The EAAF is of most relevance to the NWMR. There are 37 species of shorebird which annually migrate to Australia via the EAAF and 36 of these species spend the austral summer (non-breeding season) foraging and roosting in coastal and wetland habitats (Commonwealth of Australia, 2015c; Weller and Lee, 2017).

Ashmore Reef is documented as a BIA for migratory shorebirds in the NWMR (DSEWPAC, 2012a).

Table 8-4. Information on threatened/migratory shorebird species of the NWMR

Species	Key Information				
Opecies	-				
Shorebirds					
Eastern curlew, Far eastern curlew	This species is the largest, migratory shorebird in the world, with a long neck, long legs and a very long downcurved bill and is a long-haul flyer. The eastern curlew is a coastal species with a continuous distribution north from Barrow Island to the Kimberley region. The species is endemic to the EAAF and is a non-breeding visitor to Australia from August to March, primarily foraging on crabs and molluscs in intertidal mudflats. During the non-breeding season in Australia, this species is most associated with sheltered coasts, especially estuaries, bays, harbours, inlets and coastal lagoons, with large intertidal mudflats or sandflats, often with beds of seagrass (DOE, 2015a).				
Curlew sandpiper	The curlew sandpiper breeds in northern Siberia but has a non-breeding range that extends from western Africa to Australia, with small numbers reaching New Zealand (Bamford <i>et al.</i> , 2008). In Australia, curlew sandpipers occur around the coasts and are also quite widespread inland, though in smaller numbers. Records occur in all states and the NT during the non-breeding period, and also during the breeding season when many non-breeding one-year old birds remain in Australia rather than migrating north along the EAAF. The species preferred habitat for foraging is mudflats and nearby shallow waters in sheltered coastal areas such as estuaries, bay, inlets and lagoons (DOE, 2015b).				
Great knot	The great knot breeds in the Northern Hemisphere and undertakes biannual migrations along the EAAF to non-breeding habitat in Australia. The great knot winters in Australia and has been recorded around the entirety of the Australian coast the greatest numbers are found in northern Western Australia (Pilbara (Dampier Archipelago) and Kimberley and the Northern Territory. In Australia, this species prefers sheltered, coastal habitat with large intertidal mudflats or sandflats (inkling inlets, bays, harbours, estuaries and lagoons). High numbers (exceeding several thousand birds are regularly recorded from Roebuck Bay. The great knot feeds on a variety of invertebrates by pecking at or just below the surface of moist mud or sand (Threatened Species Scientific Committee, 2016a).				
Bar-tailed godwit (menzbieri)	The bar-tailed godwit is a large, migratory shorebird and there are two sub-species in the EAAF (<i>Limosa lapponica baueri</i> and <i>L. I. menzbieri</i>). The sub-species <i>L. I. menzbieri</i> breeds in northern Siberia and spends its non-breeding period mostly in the north of WA but also in South-east Asia. The bar-tailed godwit (<i>menzbieri</i>) usually forages near the water in shallow water, mainly in tidal estuaries and harbours with a preference for exposed sandy or soft mud substrates on intertidal flats, banks and beaches (Threatened Species Scientific Committee, 2016c).				
Red knot (piersmai)	This species is a small to medium migratory shorebird. There are two sub-species that cannot be distinguished from each other in nonbreeding plumage, however, <i>Calidris canutus piersmai</i> tend to overwinter almost exclusively in north-west Australia. The red knot migrates long distances from breeding grounds in high northern latitudes, where it breeds during the boreal summer, to the Southern Hemisphere during the austral summer with migration along the EAAF. Very large numbers are recorded for the north-west Australia and is common in all suitable habitats around the coast, including inland clay pans near Roebuck Bay (where the species roosts). The red knot usually forages in soft substrate along the waters edge on intertidal mudflats, sandflats and sandy beaches of sheltered coasts (Threatened Species Scientific Committee, 2016b).				
Lesser sand plover	The lesser sand plover is a small to medium shorebird and one of 36 migratory shorebirds that breed in the Northern Hemisphere during the boreal summer and are known to annually migrate to the non-breeding grounds of Australia along the EAAF for the austral summer. There are five different sub-species and it is most likely the non-breeding ranges of the sub-species <i>Charadrius m. mongolus</i> overlaps with the NWMR. This species is widespread in coastal regions, preferring sandy beaches, mudflats of coastal bays and estuaries (Threatened Species Scientific Committee, 2016e).				
Greater sand plover	The greater sand plover is a small to medium shorebird and in its non-breeding plumage is difficult to distinguish from the lesser sand plover. This species breeds in the Northern				

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Species	Key Information
	Hemisphere and undertakes annual migrations to and from Southern Hemisphere feeding grounds in the austral summer along the EAAF. The species distribution in Australia during the non-breeding season is widespread, in WA the greater sand plover is widespread between Northwest Cape and Roebuck Bay (Threatened Species Scientific Committee, 2016d).

9. KEY ECOLOGICAL FEATURES

Key ecological features (KEFs) are elements of the Commonwealth marine environment that are considered to be important for a marine region's biodiversity or ecosystem function and integrity. KEFs have been identified by the Australian Government based on advice from scientists about the ecological processes and characteristics of the area.

KEFs meet one or more of the following criteria:

- a species, group of species, or a community with a regionally important ecological role (e.g. a predator, prey that affects a large biomass or number of other marine species),
- a species, group of species or a community that is nationally or regionally important for biodiversity,
- an area or habitat that is nationally or regionally important for:
 - enhanced or high productivity (such as predictable upwellings an upwelling occurs when cold nutrient-rich waters from the bottom of the ocean rise to the surface),
 - aggregations of marine life (such as feeding, resting, breeding or nursery areas), or
 - biodiversity and endemism (species which only occur in a specific area),
- a unique seafloor feature, with known or presumed ecological properties of regional significance.

Thirteen KEFs are designated within the NWMR, twelve KEFs within the SWMR and eight KEFs within the NMR. These KEFs have been identified in the Protected Matters search (**Appendix A**) and outlined in **Table 9-1**, **Table 9-2** and **Table 9-3**, and **Figure 9-1**, **Figure 9-2** and **Figure 9-3**.

Table 9-1 Key Ecological Features (KEF) within the NWMR

KEF Name	Woodside Activity Area			Values ¹	Description
	Browse	NWS/S	NW Cape		,
Carbonate bank and terrace system of the Sahul Shelf	~	-	-	Unique seafloor feature with ecological properties of regional significance Regionally important because of their role in enhancing biodiversity and local productivity relative to their surrounds. The carbonate banks and terraces provide areas of hard substrate in an otherwise soft sediment environment which are important for sessile species	The Carbonate banks and terrace system of the Sahul Shelf are located in the western Joseph Bonaparte Gulf and to the north of Cape Bougainville and Cape Londonderry. The carbonate banks and terraces are part of a larger complex of banks and terraces that occurs on the Van Diemen Rise in the adjacent NMR. The bank and terrace system of the Van Diemen Rise covers approximately 31,278 km² and forms part of the larger system associated with the Sahul Banks to the north and Londonderry Rise to the east. The feature is characterised by terrace, banks, channels and valleys (DSEWPAC, 2012c). The banks, ridges and terraces of the Van Diemen Rise are raised geomorphic features with relatively high proportions of hard substrate that support sponge and octocoral gardens. These, in turn, provide habitat to other epifauna, by providing structure in an otherwise flat environment (Przeslawski <i>et al.</i> , 2011). Plains and valleys are characterised by scattered epifauna and infauna that include polychaetes and ascidians. These epibenthic communities support higher order species such as olive ridley turtles, sea snakes and sharks (DSEWPAC, 2012c)
Pinnacles of the Bonaparte Basin	√	-	-	Unique seafloor feature with ecological properties of regional significance Provide areas of hard substrate in an otherwise soft sediment environment and so are important for sessile species Recognised as a biodiversity hotspot for sponges The Pinnacles of the Bonaparte Basin KEF is located within both the NWMR and NMR (refer Table 9-3)	The Pinnacles of the Bonaparte Basin provide areas of hard substrate in an otherwise relatively featureless environment, the pinnacles are likely to support a high number of species, although a better understanding of the species richness and diversity associated with these structures is required (DSEWPAC, 2012a, 2012c). Covering >520 km² within the Bonaparte Basin, this feature contains the largest concentration of pinnacles along the Australian margin. The Pinnacles of the Bonaparte Basin are thought to be the eroded remnants of underlying strata; it is likely that the vertical walls generate local upwelling of nutrient-rich water, leading to phytoplankton productivity that attracts aggregations of planktivorous and predatory fish, seabirds, and foraging turtles (DSEWPAC, 2012a, 2012c).
Ashmore Reef and Cartier Island and surrounding Commonwealth waters	✓	-	-	High productivity, biodiversity and aggregation of marine life that apply to both the benthic and pelagic habitats within the feature	Ashmore Reef is the largest of only three emergent oceanic reefs present in the north-eastern Indian Ocean and is the only oceanic reef in the region with vegetated islands. Ashmore contains a large reef shelf, two large lagoons, several channelled carbonate sand flats, shifting sand cays, an extensive reef flat, three vegetated islands—East, Middle and West islands—and

KEF Name	Woodside Activity Area			Values ¹	Description
	Browse	NWS/S	NW Cape		
					surrounding waters. Rising from a depth of more than 100 m, the reef platform is at the edge of the NWS and covers an area of 239 km². Ashmore Reef and Cartier Island and the surrounding Commonwealth waters are regionally important for feeding and breeding aggregations of birds and other marine life; they are areas of enhanced primary productivity in an otherwise low-nutrient environment (DSEWPAC, 2012a). Ashmore Reef supports the highest number of coral species of any reef off the WA coast.
Seringapatam Reef and the Commonwealth waters in the Scott Reef complex	√	-	-	Support diverse aggregations of marine life, have high primary productivity relative to other parts of the region, are relatively pristine and have high species richness, which apply to both the benthic and pelagic habitats within the feature	Seringapatam Reef and the Commonwealth waters in the Scott Reef complex are regionally important in supporting the diverse aggregations of marine life, high primary productivity, and high species richness associated with the reefs themselves. As two of the few offshore reefs in the north-west, they provide an important biophysical environment in the region (DSEWPAC, 2012a).
Continental slope demersal fish communities	✓	✓	✓	High biodiversity of demersal fish assemblages, including high levels of endemism	The diversity of demersal fish assemblages on the continental slope in the Timor Province, the Northwest Transition and the North-west Province is high compared to elsewhere along the Australian continental slope (DSEWPAC, 2012a). The continental slope between North-west Cape and the Montebello Trough has more than 500 fish species, 76 of which are endemic, which makes it the most diverse slope bioregion in Australia (Last <i>et al.</i> , 2005). The slope of the Timor Province and the Northwest Transition also contains more than 500 species of demersal fishes of which 64 are considered endemic (Last <i>et al.</i> , 2005), making it the second richest area for demersal fishes throughout the whole continental slope. Demersal fish species occupy two distinct demersal biomes associated with the upper slope (225–500 m water depths) and the mid-slope (750–1000 m). Although poorly known, it is suggested that the demersal slope communities rely on bacteria and detritus-based systems comprised of infauna and epifauna, which in turn become prey for a range of teleost fishes, molluscs and crustaceans (Brewer <i>et al.</i> , 2007). Higher-order consumers may include carnivorous fishes, deepwater sharks, large squid, and toothed whales (Brewer <i>et al.</i> , 2007). Pelagic production is phytoplankton-based, with hot spots around oceanic reefs and islands (Brewer <i>et al.</i> , 2007).

KEF Name	Woodsid	e Activity	Area	Values ¹	Description
	Browse	NWS/S	NW Cape		
Ancient coastline at 125 m depth contour	✓	V	*	Unique seafloor feature with ecological properties of regional significance Provides areas of hard substrate and therefore may provide sites for higher diversity and enhanced species richness relative to surrounding areas of predominantly soft sediment	Several steps and terraces as a result of Holocene sea level changes occur in the region, with the most prominent of these features occurring as an escarpment along the NWMR and Sahul Shelf at a water depth of 125 m. The Ancient Coastline is not continuous throughout the NWMR and coincides with a well-documented eustatic stillstand at about 130 m worldwide (Falkner et al., 2009). Where the Ancient Coastline provides areas of hard substrate, it may contribute to higher diversity and enhanced species richness relative to soft sediment habitat (Falkner et al., 2009). Parts of the Ancient Coastline, represented as rocky escarpment, are considered to provide biologically important habitat in an area predominantly made up of soft sediment. The escarpment type features may also potentially facilitate mixing within the water column due to upwelling, providing a nutrient-rich environment. Although the Ancient Coastline adds additional habitat types to a representative system, the habitat types are not unique to the coastline as they are widespread on the upper shelf (Falkner et al., 2009)
Canyons linking the Argo Abyssal Plain and Scott Plateau	-	✓	-	Facilitates nutrient upwelling, creating enhanced productivity and encouraging diverse aggregations of marine life	Interactions with the Leeuwin Current and strong internal tides are thought to result in upwelling at the canyon heads, thus creating conditions for enhanced productivity in the region (Brewer <i>et al.</i> , 2007). As a result, aggregations of whale sharks, manta rays, humpback whales, sea snakes, sharks, predatory fishes and seabirds are known to occur in the area due to its enhanced productivity (Sleeman <i>et al.</i> , 2007).
Glomar Shoal	-	✓	-	An area of high productivity and aggregations of marine life including commercial and recreational fish species	Glomar Shoal is a submerged littoral feature located about 150 km north of Dampier on the Rowley shelf at depths of 33–77 m (Falkner et al., 2009). Studies by Abdul Wahab et al. (2018) found a number of hard coral and sponge species in water depths less than 40 m. One hundred and seventy (170) different species of fishes were detected with greatest species richness and abundance in shallow habitats (Abdul Wahab et al., 2018). Fish species present include a number of commercial and recreational species such as Rankin cod, brown striped snapper, red emperor, crimson snapper, bream and yellow-spotted triggerfish (Falkner et al., 2009; Fletcher and Santoro, 2009). These species have recorded high catch rates associated with Glomar Shoal, indicating that the shoal is likely to be an area of high productivity.

KEF Name	Woodside Activity Area			Values ¹	Description
1121 110	Browse	NWS/S	NW Cape		3000 грион
Mermaid Reef and Commonwealth waters surrounding Rowley Shoals	-	✓	-	Regionally important in supporting high species richness, higher productivity and aggregations of marine life	The Mermaid Reef and Commonwealth waters surrounding the Rowley Shoals KEF and is adjacent to the three nautical mile State waters limit surrounding Clerke and Imperieuse reefs, and include the Mermaid Reef Marine Park as described in Section 10 . The reefs provide a distinctive biophysical environment in the region. They have steep and distinct reef slopes and associated fish communities. In evolutionary terms, the reefs may play a role in supplying coral and fish larvae to reefs further south via the southward flowing Indonesian Throughflow. Both coral communities and fish assemblages differ from similar habitats in eastern Australia (Done <i>et al.</i> , 1994).
Exmouth Plateau	-	✓	✓	Unique seafloor feature with ecological properties of regional significance, which apply to both benthic and pelagic habitats Likely to be an important area of biodiversity as it provides an extended area offshore for communities adapted to depths of approximately 1000 m	The Exmouth Plateau is a large, mid-slope, continental margin plateau that lies off the northwest coast of Australia. It ranges in depth from about 500 to more than 5000 m and is a major structural element of the Carnarvon Basin (Miyazaki and Stagg, 2013). The large size of the Exmouth Plateau and its expansive surface may modify deep water flow and be associated with the generation of internal tides; both of which may subsequently contribute to the upwelling of deeper, nutrient-rich waters closer to the surface (Brewer et al., 2007). Satellite observations suggest that productivity is enhanced along the northern and southern boundaries of the plateau (Brewer et al., 2007). Sediments on the plateau suggest that biological communities include scavengers, benthic filter feeders and epifauna (DSEWPAC, 2012a). Fauna in the pelagic waters above the plateau are likely to include small pelagic species and nekton attracted to seasonal upwellings, as well as larger predators such as billfishes, sharks and dolphins (Brewer et al., 2007). Protected and migratory species are also known to pass through the region, including whale sharks and cetaceans.
Canyons linking the Cuvier Abyssal Plain and the Cape Range Peninsula	-	-	V	Unique seafloor feature with ecological properties of regional significance The feature is an area of moderately enhanced productivity, attracting aggregations of fish and higher-order consumers such as large predatory	The canyons are associated with upwelling as they channel deep water from the Cuvier Abyssal Plain up onto the slope. This nutrient-rich water interacts with the Leeuwin Current at the canyon heads (DSEWPAC, 2012a). Aggregations of whale sharks, manta rays, sea snakes, sharks, large predatory fish, and seabirds are known to occur in this area.

KEF Name	Woodside Activity Area			Values ¹	Description
	Browse	NWS/S	NW Cape		
				fish, sharks, toothed whales and dolphins Likely to be important due to their historical association with sperm whale aggregations	
Commonwealth waters adjacent to Ningaloo Reef	-	-	✓	High productivity and diverse aggregations of marine life The Commonwealth waters adjacent to Ningaloo Reef and associated canyons and plateau are interconnected and support the high productivity and species richness of Ningaloo Reef, globally significant as the only extensive coral reef in the world that fringes the west coast of a continent	The Leeuwin and Ningaloo currents interact, leading to areas of enhanced productivity in the Commonwealth waters adjacent to Ningaloo Reef. Aggregations of whale sharks, manta rays, humpback whales, sea snakes, sharks, large predatory fish, and seabirds are known to occur in this area (DSEWPAC, 2012a). The spatial boundary of this KEF, as defined in the NCVA, is defined as the waters contained in the existing Ningaloo AMP provided in Section 10 .
Wallaby Saddle	-	-	✓	High productivity and aggregations of marine life: Representing almost the entire area of this type of geomorphic feature in the NWMR. It is a unique habitat that neither occurs anywhere else nearby (within hundreds of kilometres) nor with as large an area (Falkner et al. 2009)	The Wallaby Saddle may be an area of enhanced productivity. Historical whaling records provide evidence of sperm whale aggregations in the area of the Wallaby Saddle, possibly due to the enhanced productivity of the area and aggregations of baitfish (DSEWPAC, 2012a).

^{1.} Values description sourced from Marine bioregional plan for the North-west Marine Region (DSEWPAC, 2012a) and the Department of Agriculture, Water and the Environment (DAWE) SPRAT database.

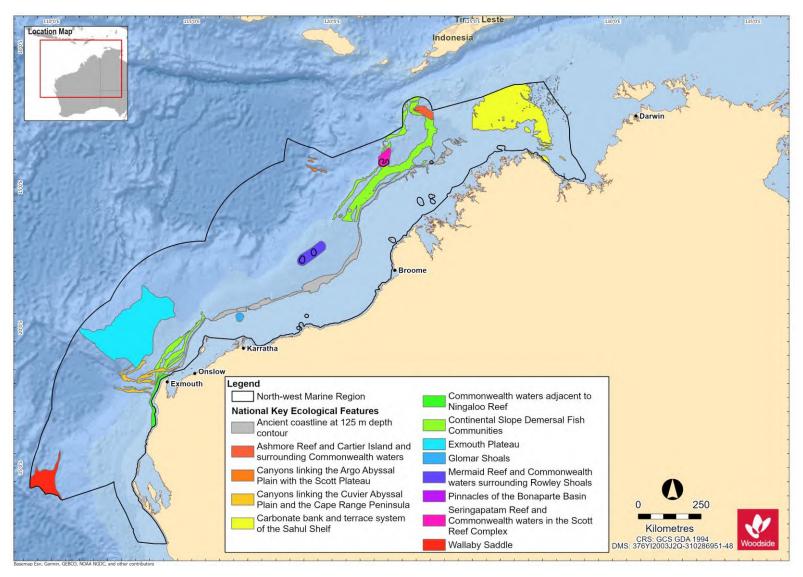


Figure 9-1 Key Ecological Features (KEFs) within the NWMR.

Table 9-2 Key Ecological Features (KEF) within the SWMR

KEF Name	Values ¹	Description
Albany Canyons group and adjacent shelf break	High productivity and aggregations of marine life, and unique seafloor feature with ecological properties of regional significance Both benthic and demersal habitats within the feature are of conservation value	The Albany Canyons group is thought to be associated with small, periodic subsurface upwelling events, which may drive localised regions of high productivity. The canyons are known to be a feeding area for sperm whale and sites of orange roughy aggregations. Anecdotal evidence also indicates that this area supports fish aggregations that attract large predatory fish and sharks.
Ancient coastline at 90-120 m depth	Relatively high productivity and aggregations of marine life, and high levels of biodiversity and endemism The feature creates topographic complexity, that may facilitate benthic biodiversity and enhanced biological productivity	Benthic biodiversity and productivity occur where the ancient coastline forms a prominent escarpment, such as in the western Great Australian Bight, where the sea floor is dominated by sponge communities of significant biodiversity and structural complexity.
Cape Mentelle upwelling	Facilitates nutrient upwelling, supporting high productivity and diverse aggregations of marine life	The Cape Mentelle upwelling draws relatively nutrient-rich water from the base of the Leeuwin Current, up the continental slope and onto the inner continental shelf, where it results in phytoplankton blooms at the surface. The phytoplankton blooms provide the basis for an extended food chain characterised by feeding aggregations of small pelagic fish, larger predatory fish, seabirds, dolphins and sharks.
Commonwealth marine environment surrounding the Houtman Abrolhos Islands (and adjacent shelf break)	High levels of biodiversity and endemism within benthic and pelagic habitats	The Houtman Abrolhos Islands and surrounding reefs support a unique mix of temperate and tropical species, resulting from the southward transport of species by the Leeuwin Current over thousands of years. The Houtman Abrolhos Islands are the largest seabird breeding station in the eastern Indian Ocean. They support more than one million pairs of breeding seabirds.

KEF Name	Values¹	Description
Commonwealth marine environment surrounding the Recherche Archipelago	Aggregations of marine life and high levels of biodiversity and endemism within benthic and demersal communities	The Recherche Archipelago is the most extensive area of reef in the SWMR. Its reef and seagrass habitat supports a high species diversity of warm temperate species, including 263 known species of fish, 347 known species of molluscs, 300 known species of sponges, and 242 known species of macroalgae. The islands also provide haul-out (resting areas) and breeding sites for Australian sea lions and New Zealand fur seals.
Commonwealth marine environment within and adjacent to the west-coast inshore lagoons	High productivity and aggregations of marine life within benthic and pelagic habitats Important for benthic productivity and recruitment for a range of marine species	These lagoons are important for benthic productivity, including macroalgae and seagrass communities, and breeding and nursery aggregations for many temperate and tropical marine species. They are important areas for the recruitment of commercially and recreationally important fish species. Extensive schools of migratory fish visit the area annually, including herring, garfish, tailor and Australian salmon.
Commonwealth marine environment within and adjacent to Geographe Bay	High productivity and aggregations of marine life, and high levels of biodiversity, recruitment within benthic and pelagic communities	Geographe Bay is known for its extensive beds of tropical and temperate seagrass that support a diversity of species, many of them not found anywhere else. The bay provides important nursery habitat for many species. Juvenile dusky whaler sharks use the shallow seagrass habitat as nursery grounds for several years, before ranging out to adult feeding grounds along the shelf break. The seagrass also provides valuable habitat for fish and invertebrates (Carruthers <i>et al.</i> , 2007). It is also an important resting area for migratory humpback whales.
Diamantina Fracture Zone	Unique seafloor feature with ecological properties of regional significance which apply to its benthic and demersal habitats	The Diamantina Fracture Zone is a rugged, deep- water environment of seamounts and numerous closely spaced troughs and ridges. Very little is known about the ecology of this remote, deep- water feature, but marine experts suggest that its size and physical complexity mean that it is likely to support deep-water communities characterised by high species diversity, with many species found nowhere else.
Naturaliste Plateau	Unique seafloor feature with ecological properties of regional significance including high species diversity and endemism which apply to its benthic and demersal habitats	The Naturaliste Plateau is Australia's deepest temperate marginal plateau. The combination of its structural complexity, mixed water dynamics and relative isolation indicate that it supports deep- water communities with high species diversity and endemism.
Perth Canyon and adjacent shelf break, and other west-coast canyons	An area of higher productivity that attracts feeding aggregations of deep-diving mammals and large predatory fish. It is also recognised as a unique seafloor feature with ecological properties of regional significance	The Perth Canyon is the largest known undersea canyon in Australian waters. Deep ocean currents rise to the surface, creating a nutrient-rich cold- water habitat attracting feeding aggregations of deep-diving mammals, such as pygmy blue whales and large predatory fish that feed on aggregations of small fish, krill and squid.

KEF Name	Values ¹	Description
Western demersal slope and associated fish communities of the Central Western Province	Provides important habitat for demersal fish communities and supports species groups that are nationally or regionally important to biodiversity	The western demersal slope provides important habitat for demersal fish communities, with a high level of diversity and endemism. A diverse assemblage of demersal fish species below a depth of 400 m is dominated by relatively small benthic species such as grenadiers, dogfish and cucumber fish. Unlike other slope fish communities in Australia, many of these species display unique physical adaptations to feed on the sea floor (such as a mouth position adapted to bottom feeding), and many do not appear to migrate vertically in their daily feeding habits.
Western rock lobster	A species that plays a regionally important ecological role	This species is the dominant large benthic invertebrate in the region. The lobster plays an important trophic role in many of the inshore ecosystems of the SWMR. Western rock lobsters are an important part of the food web on the inner shelf, particularly as juveniles.

T. Values description sourced from Marine bioregional plan for the South-west Marine Region (DSEWPAC, 2012b) and the Department of Agriculture, Water and the Environment (DAWE) SPRAT database

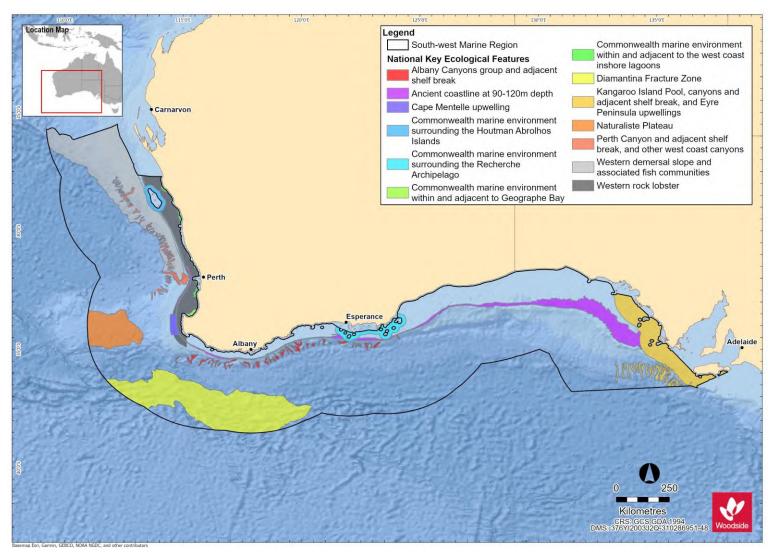


Figure 9-2. Key Ecological Features (KEFs) within the SWMR

Table 9-3 Key Ecological Features (KEF) within the NMR

WEE Name	Values ¹	Description
KEF Name	values	Description
Carbonate bank and terrace system of the Van Diemen Rise	Important for its role in enhancing biodiversity and local productivity relative to its surrounds and for supporting relatively high species diversity The feature has been identified as a sponge biodiversity hotspot (Przeslawski et al. 2014)	The bank and terrace system of the Van Diemen Rise is part of the larger system associated with the Sahul Banks to the north and Londonderry Rise to the east; it is characterised by terrace, banks, channels and valleys. The variability in water depth and substrate composition may contribute to the presence of unique ecosystems in the channels. Species present include sponges, soft corals and other sessile filter feeders associated with hard substrate sediments of the deep channels; epifauna and infauna include polychaetes and ascidians. Olive ridley turtles, sea snakes and sharks are also found associated with this feature.
Gulf of Carpentaria basin	Regional importance for biodiversity, endemism and aggregations of marine life relevant to benthic and pelagic habitats	The Gulf of Carpentaria basin is one of the few remaining near-pristine marine environments in the world. Primary productivity in the Gulf of Carpentaria basin is mainly driven by cyanobacteria that fix nitrogen but is also strongly influenced by seasonal processes. The soft sediments of the basin are characterised by moderately abundant and diverse communities of infauna and mobile epifauna dominated by polychaetes, crustaceans, molluscs, and echinoderms. The basin also supports assemblages of pelagic fish species including planktivorous and schooling fish, with top predators such as shark, snapper, tuna, and mackerel.
Gulf of Carpentaria coastal zone	High productivity, aggregations of marine life (including several endemic species) and high biodiversity compared to broader region	Nutrient inflow from rivers adjacent to the NMR generates higher productivity and more diverse and abundant biota within the Gulf of Carpentaria coastal zone than elsewhere in the region. The coastal zone is near pristine and supports many protected species such as marine turtles, dugongs, and sawfishes. Ecosystem processes and connectivity remain intact; river flows are mostly uninterrupted by artificial barriers and healthy, diverse estuarine and coastal ecosystems support many species that move between freshwater and saltwater environments.
Pinnacles of the Bonaparte Basin	Unique seafloor feature with ecological properties of regional significance Provide areas of hard substrate in an otherwise soft sediment environment and so are important for sessile species Recognised as a biodiversity hotspot for sponges The Pinnacles of the Bonaparte Basin KEF is located within both the NWMR and NMR (refer Table 9-1)	Covering more than 520 km² within the Bonaparte Basin, this feature contains the largest concentration of pinnacles along the Australian margin. The Pinnacles of the Bonaparte Basin are thought to be the eroded remnants of underlying strata; it is likely that the vertical walls generate local upwelling of nutrient-rich water, leading to phytoplankton productivity that attracts aggregations of planktivorous and predatory fish, seabirds and foraging turtles.

KEF Name	Values ¹	Description
Plateaux and saddle north-west of the Wellesley Islands	High species abundance, diversity and endemism of marine life	Abundance and species density are high in the plateaux and saddle as a result of increased biological productivity associated with habitats rather than currents. Submerged reefs support corals that are typical of northern Australia, including corals that have bleach-resistant zooxanthellae; and particular reef fish species that are different to those found elsewhere in the Gulf of Carpentaria. Species present include marine turtles and reef fish such as coral trout, cod, mackerel, and shark. Seabirds frequent the plateaux and saddle, most likely due to the presence of predictable food resources for feeding offspring.
Shelf break and slope of the Arafura Shelf	The Shelf break and slope of the Arafura Shelf is defined as a key ecological feature for its ecological significance associated with productivity emanating from the slope It also forms part of a unique biogeographic province (Last <i>et al.</i> , 2005)	The shelf break and slope of the Arafura Shelf is characterised by continental slope and patch reefs and hard substrate pinnacles. The ecosystem processes of the feature are largely unknown in the region; however, the Indonesian Throughflow and surface wind-driven circulation are likely to influence nutrients, pelagic dispersal and species and biological productivity in the region. Biota associated with the feature is largely of Timor–Indonesian Malay affinity.
Submerged coral reefs of the Gulf of Carpentaria	High aggregations of marine life, biodiversity and endemism Twenty per cent of the reefs found in the NMR are situated within this KEF (Harris et al., 2007)	The submerged coral reefs of the Gulf of Carpentaria are characterised by submerged patch, platform and barrier reefs that form a broken margin around the perimeter of the Gulf of Carpentaria basin, rising from the sea floor at depths of 30–50 m. These reefs provide breeding and aggregation areas for many fish species including mackerel and snapper and offer refuges for sea snakes and apex predators such as sharks. Coral trout species that inhabit the submerged reefs are smaller than those found in the Great Barrier Reef and may prove to be an endemic sub-species.
Tributary Canyons of the Arafura Depression	High productivity and high levels of species diversity and endemism of marine life within the benthic and pelagic habitats of the feature	The tributary canyons are approximately 80–100 m deep and 20 km wide. The largest of the canyons extend some 400 km from Cape Wessel into the Arafura Depression, and are the remnants of a drowned river system that existed during the Pleistocene era. Sediments in this feature are mainly calcium-carbonate rich, although sediment type varies from sandy substrate to soft muddy sediments and hard, rocky substrate. Marine turtles, deep sea sponges, barnacles and stalked crinoids have all been identified in the area.

^{1.} Values description sourced from Marine bioregional plan for the North Marine Region (DSEWPAC, 2012c) and Department of Agriculture, Water and the Environment (DAWE) SPRAT database.

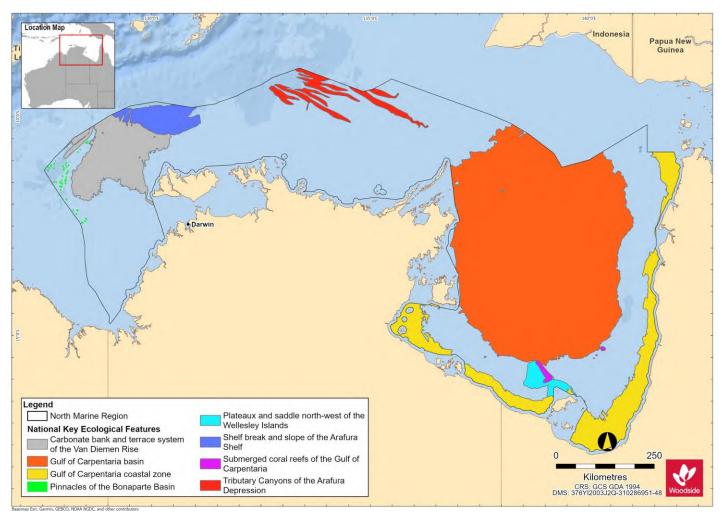


Figure 9-3. Key Ecological Features (KEFs) within the NMR

10. PROTECTED AREAS

10.1 Regional Context

Protected areas included World Heritage Properties, National Heritage Places, Wetlands of International Importance, Australian Marine Parks, State Marine Parks and Reserves, Threatened Ecological Communities and the Australian Whale Sanctuary. The PMST Reports (**Appendix A**) shows that there are twenty-nine protected areas found in the NWMR, eighteen in the SWMR and nine in the NMR.

Table 10-1, Table 10-2 and **Table 10-3** outline the protected areas of each of the marine regions NWMR, SWMR and NMR, respectively.

10.2 World Heritage Properties

Properties nominated for World Heritage listing are inscribed on the list only after they have been carefully assessed as representing the best examples of the world's cultural and natural heritage. Only World Heritage listings classed as natural are discussed in this section. World Heritage sites classed as cultural are discussed in **Section 11**.

The list of Australia's World Heritage Properties and the PMST Reports (**Appendix A**) show two World Heritage Properties within the NWMR (**Table 10-1**), no World Heritage Properties within the SWMR (**Table 10-2**), and though not reported in the NMR PMST Report, Kakadu National Park and World Heritage Area is included in **Table 10-3**.

10.3 National and Commonwealth Heritage Places - Natural

The National Heritage List is Australia's list of natural, historic, and Indigenous places of outstanding significance to the nation. The National Heritage List Spatial Database describes the place name, class (Indigenous, natural, historic), and status. Commonwealth Heritage Places are a collection of sites recognised for their Indigenous, historical and/or natural values which are owned or controlled by the Australian Government.

Only National and Commonwealth Heritage Places classed as natural are discussed in this section. Heritage Places classed as indigenous or historic are discussed in **Section 11**.

A search of the National Heritage List Spatial Database and the PMST Reports (**Appendix A**) identified three natural National Heritage Places in the NWMR (**Table 10-1**), three in the SWMR (**Table 10-2**) and for the NMR, Kakadu National Park (not included in the PMST report) is included in **Table 10-3**.

A search of the Commonwealth Heritage List identified four natural commonwealth heritage places within the NWMR (**Table 10-1**).

10.4 Wetlands of International Importance (listed under the Ramsar Convention)

Australia has 65 Ramsar wetlands that cover >8.3 million ha. Ramsar wetlands are those that are representative, rare, or unique wetlands, or that are important for conserving biological diversity.

The List of Wetlands of International Importance held under the Ramsar Convention and the PMST Reports (**Appendix A**) identified four Ramsar Sites with coastal features within the NWMR (**Table 10-1**), four in the SWMR (**Table 10-2**) and two for the New Territory, included for the NMR (**Table 10-3**).

10.5 Australian Marine Parks

Australian Marine Parks (AMPs), proclaimed under the EPBC Act in 2007 and 2013, are located in Commonwealth waters that start at the outer edge of State and Territory waters, generally three

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nautical miles (~5.5 km) from the shore, and extend to the outer boundary of Australia's EEZ, 200 nm (~370 km) from the shore.

PMST Reports (**Appendix A**) show sixteen AMPs within the NWMR (**Table 10-1**), ten within the SWMR (**Table 10-2**) and eight within the NMR (**Table 10-3**).

10.6 Threatened Ecological Communities

No Threatened Ecological Communities (TECs) as listed under the EPBC Act are known to occur within the marine waters of the NWMR, SWMR or NMR as indicated by the PMST Reports (**Appendix A**).

10.7 Australian Whale Sanctuary

The Australian Whale Sanctuary has been established to protect all whales and dolphins found in Australian waters. Under the EPBC Act all cetaceans (whales, dolphins and porpoises) are protected in Australian waters.

The Australian Whale Sanctuary includes all Commonwealth waters from the three nautical mile State/Territory waters limit out to the boundary of the EEZ (i.e. out to 200 nm and further in some places). Within the Sanctuary it is an offence to kill, injure or interfere with a cetacean. Severe penalties apply to anyone convicted of such offences.

10.8 State Marine Parks and Reserves

State Marine Parks and Reserves, proclaimed under the *Conservation and Land Management Act* 1984 (CALM Act), are located in State waters and vested in the WA Conservation and Parks Commission. State Marine Parks and Reserves of Western Australia have been considered, with 14 occurring in the NWMR (**Table 10-1**) and six occurring in the SWMR (**Table 10-2**).

10.9 Summary of Protected Areas within the NWMR

Table 10-1 Protected Areas within the NWMR

	Woodside Activity Area			IUCN Protected Area Category*		
Protected Area	Browse	NWS/S	NW Cape	or Relevant Park Zone	Description	Conservation Values
				World He	ritage Properties	
Shark Bay World Heritage Property	-	-	√		The Shark Bay World Heritage Property is adjacent to the Shark Bay AMP and was included on the World Heritage List in 1991.	Universal values of the Shark Bay World Heritage Property include large and diverse seagrass beds, stromatolites and populations of dugong and threatened species. Inscribed under Natural Criteria vii, viii, ix and x.
The Ningaloo Coast World Heritage Property	-	-	✓		The Ningaloo Coast World Heritage Property lies within the Ningaloo AMP and was included on the World Heritage List in 2011.	Universal values of the Ningaloo Coast World Heritage Property include high marine species diversity and abundance; in particular, Ningaloo Reef supports both tropical and temperate marine reptiles and mammals. Inscribed under Natural Criteria vii and x.
				National Heri	tage Places - Natural	
Shark Bay	-	-	√		The Shark Bay National Heritage Place consists of the same area included in the Shark Bay World Heritage Property (refer above) and was established on the National Heritage List in 2007.	The national heritage place has a number of exceptional natural features, including one of the largest and most diverse seagrass beds in the world, colonies of stromatolites and rich marine life including a large population of dugongs, and also provides a refuge for a number of other globally threatened species. Shark Bay meets the national heritage listing criteria a, b, c, d, e, f, g, h and i.
The Ningaloo Coast	-	-	√		The Ningaloo Coast National Heritage Place consists of the same area included in the Ningaloo	The Ningaloo Coast contains one of the best developed near-shore reefs in the world, being home to rugged limestone peninsulas, spectacular coral and sponge gardens and the whale shark.

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	Woodsid	de Activity	y Area	IUCN Protected Area Category* or Relevant Park Zone		
Protected Area	Browse	NWS/S	NW Cape		Description	Conservation Values
					Coast World Heritage Property (refer above) and was established on the National Heritage List in 2010.	The Ningaloo Coast meets the national heritage listing criteria a, b, c, d, and f.
The West Kimberley	✓	✓	-		The West Kimberley National Heritage Place covers an area of around 192,000 km² located in the north-west of Australia from Broome to Wyndham, and was established on the National Heritage List in 2011.	The Kimberley plateau, north-western coastline and northern rivers of the West Kimberley provide a vital refuge for many native plants and animals that are found nowhere else or which have disappeared from much of the rest of Australia. In addition, Roebuck Bay is internationally recognised as one of Australia's most significant sites for migratory wading birds. The national heritage place also contains a remarkable history of Aboriginal occupation, with many places of indigenous sacred value. The West Kimberley meets the national heritage listing criteria a, b, c, d, e, f, g, h and i.
				Commonwealth I	Heritage Places - Natural	
Mermaid Reef – Rowley Shoals	-	✓	-	N/A	The Mermaid Reef – Rowley Shoals Commonwealth Heritage Place is located within the boundary of the Mermaid Reef Marine National Nature Reserve. The site was listed as a Commonwealth Heritage Place in 2004.	The Mermaid Reef-Rowley Shoals Commonwealth Heritage Place is regionally important for the diversity of its fauna and together with Clerke and Imperieuse reefs, has biogeographical significance due to the presence of species which are at, or close to, the limits of their geographic ranges, including fishes known previously only from Indonesian waters. Rowley Shoals is important for benchmark studies as one of the few places off the north-west coast of Western Australia which have been the site of major biological collection trips by the WA Museum.

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	Woodsi	de Activit	y Area	IUCN Protected Area Category* or Relevant Park Zone		
Protected Area	Browse	NWS/S	NW Cape		Description	Conservation Values
Ashmore Reef National Nature Reserve	*	-	-		The Ashmore Reef Commonwealth Heritage Place is located within the boundary of the Ashmore Reef Marine Park (refer AMPs below). The site was listed as a Commonwealth Heritage Place in 2004.	Ashmore Reef has major significance as a staging point for wading birds migrating between Australia and the Northern Hemisphere and supports high concentrations of breeding seabirds, many of which are nomadic and typically breed on small isolated islands. Ashmore Reef is an important scientific reference area for migratory seabirds, sea snakes and marine invertebrates. The Ashmore Reef Commonwealth Heritage Place is significant for its history of human occupation and use. The island is believed to have been visited by Indonesian fisherman since the early eighteenth century. The islands were used both for fishing and as a staging point for voyages to the southern reefs off Australia's coast.
Scott Reef and Surrounds – Commonwealth Area	V	-	-		Scott Reef and Surrounds Commonwealth Heritage Place is located within the Western Australian Coastal Waters surrounding North and South Scott Reef. The site was listed as a Commonwealth Heritage Place in 2004.	The Scott Reef and Surrounds Commonwealth Heritage Place is regionally important for the diversity of its fauna and has biogeographical significance due to the presence of species which are at, or close to, the limits of their geographic ranges, including fish known previously only from Indonesian waters. Scott Reef is recognised as important for scientific research and benchmark studies due to its age, the extensive documentation of its geophysical and physical environmental characteristics and its use as a site of major biological collection trips and surveys by the WA Museum and the Australian Institute of Marine Science.

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	Woodsid	de Activit	y Area	IUCN Protected Area Category*		
Protected Area	Browse	NWS/S	NW or Relevant Park Zone	Description	Conservation Values	
Ningaloo Marine Area – Commonwealth Waters	-	-	~		The Ningaloo Marine Area Commonwealth Heritage Place is located within the Commonwealth waters of the Ningaloo Marine Park (refer AMPs below). The site was listed as a Commonwealth Heritage Place in 2004.	The Ningaloo Marine Area Commonwealth Heritage Place provides a migratory pathway for humpback whales and foraging habitat for whale sharks. The place is an important breeding area for billfish and manta ray. The Ningaloo Marine Area provides opportunities for scientific research relating to aspects of the area's unique features including tourism (marine ecology, whales, turtles, whale sharks, fish and oceanography.
				Wetlands of Interna	tional Importance (Ramsa	ar)
Ashmore Reef National Nature Reserve	√	-	-	Ramsar	The Ashmore Reef Ramsar site is located within the boundary of the Ashmore Reef Marine Park (refer AMPs below). The site was listed under the Ramsar Convention in 2002.	Ashmore Reef Ramsar site supports internationally significant populations of seabirds and shorebirds, is important for turtles (green, hawksbill and loggerhead) and dugong, and has the highest diversity of hermatypic (reefbuilding) corals on the WA coast. It is known for its abundance and diversity of sea snakes. However, since 1998 populations of sea snakes at Ashmore Reef have been in decline.
Eighty Mile Beach	-	V	-	Ramsar	The Eighty Mile Beach Ramsar site covers an area of 1250 km², located along a long section of the Western Australian coastline adjacent to the Eighty Mile Beach AMP (refer below).	The Eighty Mile Beach Ramsar site includes saltmarsh and a raised peat bog more than 7000 years old. The site contains the most important wetland for waders in north-western Australia, supporting up to 336,000 birds, and is especially important as a land fall for waders migrating south for the austral summer.
Roebuck Bay	-	✓	-	Ramsar	The Roebuck Bay Ramsar site covers an area of 550	The Roebuck Bay Ramsar site is recognised as one of the most important areas for migratory shorebirds in Australia.

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	Woodside Activity Area			IUCN Protected Area Category*		
Protected Area	Browse	NWS/S	NW Cape	or Relevant Park Zone	Description	Conservation Values
					km², located south of Broome and adjacent to the Roebuck AMP (refer below).	The site regularly supports over 100,000 waterbirds, with numbers being highest in the austral spring when migrant species breeding in the Palearctic stop to feed during migration.
Ord River Floodplain	✓			Ramsar	The Ord River Floodplain Ramsar Site is in the East Kimberley region and encompasses an extensive system of river, seasonal creek, tidal mudflat, and floodplain wetlands. The Ramsar Site is a nursery, feeding and/or breeding ground for migratory birds, waterbirds, fish, crabs, prawns, and crocodiles.	The site represents the best example of wetlands associated with the floodplain and estuary of a tropical river system in the Tanami-Timor Sea Coast Bioregion in the Kimberley. In addition, the False Mouths of the Ord are the most extensive mudflat and tidal waterway complex in Western Australia.
				Wetlands of Nationa	al Importance (DAWE, 201	9)
Ashmore Reef	√	-	-		Ashmore Reef is a shelf- edge platform reef located among the Sahul Banks of north-western Australia. It covers an area of 583 km ² and consists of three islets surrounded by intertidal reef and sand flats.	These islets are major seabird nesting sites with 20 breeding species recorded to date. The total bird population has been estimated to exceed 100,000 during the peak breeding season. The marine reserve also has the highest diversity of marine fauna of the reefs on the NWS and differs from other reefs and coastal areas in the region. The area meets criteria 1, 3, 4 and 5 for inclusion on the Directory of Important Wetlands in Australia.
Mermaid Reef	-	✓	-		Mermaid Reef Marine Park covers an area of around 540 km², located ~280 km west north-west of Broome, and is the most north-easterly atoll of the Rowley Shoals.	The reefs of the Mermaid Reef Marine Park have biogeographic value due to the presence of species that are at or close to the limit of their distribution. The coral communities are one of the special values of Mermaid Reef. The area meets criteria 1, 2 and 3 for inclusion on the Directory of Important Wetlands in Australia.

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	Woodsid	de Activity	y Area	IUCN Protected Area Category* or Relevant Park Zone		
Protected Area	Browse	NWS/S	NW Cape		Description	Conservation Values
Exmouth Gulf East	-	-	✓		Exmouth Gulf East covers an area of 800 km² and includes wetlands in the eastern part of Exmouth Gulf, from Giralia Bay; to Urala Creek, Locker Point.	The Exmouth Gulf East is an outstanding example of tidal wetland systems of low coast of north-west Australia, with well- developed tidal creeks, extensive mangrove swamps and broad saline coastal flats. The site is one of the major population centres for dugong in WA and its seagrass beds and extensive mangroves provide nursery and feeding areas for marine fishes and crustaceans in the Gulf. The area meets criteria 1, 2 and 3 for inclusion on the Directory of Important Wetlands in Australia.
Hamelin Pool	-	-	√		Hamelin Pool covers an area of 900 km² in the far south-east part of Shark Bay.	Hamelin Pool is an outstanding example of a hypersaline marine embayment and supports extensive microbialite (subtidal stromatolite) formations, which are the most abundant and diverse examples of growing marine microbialites in the world. The area meets criteria 1 and 6 for inclusion on the Directory of Important Wetlands in Australia.
Shark Bay East	-	-	✓		Shark Bay East covers a 250 km area of coastline comprising tidal wetlands, and marine waters less than 6 m deep at low tide, in the east arm of Shark Bay.	The site is an outstanding example of a very large, shallow marine embayment, with particularly extensive occurrence of seagrass beds and substantial areas of intertidal mud/sandflats and mangrove swamp. The site supports what is probably the world's largest discrete population of dugong; it is also a major nursery and/or feeding area for turtles, rays, sharks, other fishes, prawns and other marine fauna; and is a major migration stop-over area for shorebirds. The area meets criteria 1, 2, 3, 4, 5 and 6 for inclusion on the Directory of Important Wetlands in Australia.
				Australian Mar	ine Parks (DNP, 2018a)	
Abrolhos Marine Park	-	-	√	II, IV, VI	Abrolhos Marine Park is located adjacent to the WA Houtman Abrolhos Islands, covering a large offshore	Abrolhos Marine Park is significant because it contains habitats, species and ecological communities associated with four bioregions:

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	Woodsi	de Activity	y Area	IUCN Protected Area Category*		
Protected Area	Browse	NWS/S	NW Cape	or Relevant Park Zone	Description	Conservation Values
					area of 88,060 km² extending from the WA State waters boundary to the edge of Australia's EEZ. The Abrolhos Marine Park is located within both the NWMR and SWMR.	Central Western Province Central Western Shelf Province Central Western Transition South-west Shelf Transition It includes seven KEFs: Commonwealth marine environment surrounding the Houtman Abrolhos Islands; Demersal slope and associated fish communities of the Central Western Province; Mesoscale eddies; Perth Canyon and adjacent shelf break, and other west-coast canyons; Western rock lobster; Ancient coastline at 90-120 m depth; and Wallaby Saddle. The AMP supports a range of species including species listed as threatened, migratory, marine or cetacean under the EPBC Act. BIAs within the AMP include foraging and breeding habitat for seabirds, foraging habitat for Australian sea lions and white sharks, and a migratory pathway for humpback and pygmy blue whales. The AMP is adjacent to the northernmost Australian sea lion breeding colony in Australia on the Houtman Abrolhos Islands.
Carnarvon Canyon Marine Park	-	-	~	IV	Carnarvon Canyon Marine Park covers an area of 6177 km², located ~300 km north-west of Carnarvon.	Carnarvon Canyon Marine Park is significant because it contains habitats, species and ecological communities associated with the Central Western Transition bioregion. The AMP supports a range of species, including species listed as threatened, migratory, marine or cetacean under the EPBC Act. There is limited information about species' use of this AMP.
Shark Bay Marine Park	-	-	~	VI	Shark Bay Marine Park covers an area of 7443 km² located ~60 km offshore of Carnarvon, adjacent to the Shark Bay World Heritage Property and National Heritage Place.	Shark Bay Marine Park is significant because it contains habitats, species and ecological communities associated with two bioregions: • Central Western Shelf Province • Central Western Transition. The AMP supports a range of species including species listed as threatened, migratory, marine or cetacean under

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	Woodside Activity Area			IUCN Protected Area Category*		
Protected Area	Browse	NWS/S	NW Cape	or Relevant Park Zone	Description	Conservation Values
						the EPBC Act. BIAs within the AMP include breeding habitat for seabirds, internesting habitat for marine turtles, and a migratory pathway for humpback whales.
Gascoyne Marine Park	-	-	✓	II, IV, VI	Gascoyne Marine Park covers an area of 81,766 km², located ~20 km off the west coast of the Cape Range Peninsula, adjacent to the Ningaloo Marine Park.	Gascoyne Marine Park is significant because it contains habitats, species and ecological communities associated with three bioregions: • Central Western Shelf Transition • Central Western Transition • Northwest Province. It includes four KEFs: Canyons linking the Cuvier Abyssal Plain and the Cape Range Peninsula; Commonwealth waters adjacent to Ningaloo Reef; Continental slope demersal fish communities; and Exmouth Plateau. The AMP supports a range of species including species listed as threatened, migratory, marine or cetacean under the EPBC Act. BIAs within the AMP include breeding habitat for seabirds, internesting habitat for marine turtles, a migratory pathway for humpback whales, and foraging habitat and migratory pathway for pygmy blue whales.
Ningaloo Marine Park	-	-	✓	II, IV	Ningaloo Marine Park covers an area of 2435 km², stretching ~300 km along the west coast of the Cape Range Peninsula, and is adjacent to the WA Ningaloo Marine Park and Gascoyne Marine Park.	Ningaloo Marine Park is significant because it contains habitats, species and ecological communities associated with four bioregions: Central Western Shelf Transition Central Western Transition Northwest Province Northwest Shelf Province. It includes three KEFs: Canyons linking the Cuvier Abyssal Plain and the Cape Range Peninsula; Commonwealth waters adjacent to Ningaloo Reef; and Continental slope demersal fish communities. The AMP supports a range of species including species listed as threatened, migratory, marine or cetacean under the EPBC Act. BIAs within the AMP include breeding and

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	Woodsid	de Activity	y Area	IUCN Protected Area Category*		
Protected Area	Browse	NWS/S	NW Cape	or Relevant Park Zone	Description	Conservation Values
						or foraging habitat for seabirds, internesting habitat for marine turtles, a migratory pathway for humpback whales, foraging habitat and migratory pathway for pygmy blue whales, breeding, calving, foraging and nursing habitat for dugong and foraging habitat for whale sharks.
Montebello Marine Park	-	√	-	VI	Montebello Marine Park covers an area of 3413 km², located offshore of Barrow Island and 80 km west of Dampier extending from the WA State waters boundary, and is adjacent to the WA Barrow Island and Montebello Islands Marine Parks.	Montebello Marine Park is significant because it contains habitats, species and ecological communities associated with the Northwest Shelf Province bioregion. It includes one KEF: Ancient coastline at 125 m depth contour. The AMP supports a range of species including species listed as threatened, migratory, marine or cetacean under the EPBC Act. BIAs within the AMP include breeding habitat for seabirds, internesting, foraging, mating, and nesting habitat for marine turtles, a migratory pathway for humpback whales and foraging habitat for whale sharks.
Dampier Marine Park	-	√	-	II, IV, VI	Dampier Marine Park covers an area of 1252 km², located ~10 km north- east of Cape Lambert and 40 km from Dampier extending from the WA State waters boundary.	Dampier Marine Park is significant because it contains habitats, species and ecological communities associated with the Northwest Shelf Province bioregion. The AMP provides protection for offshore shelf habitats adjacent to the Dampier Archipelago, and the area between Dampier and Port Hedland, and is a hotspot for sponge biodiversity. The AMP supports a range of species including those listed as threatened, migratory, marine or cetacean under the EPBC Act. BIAs within the AMP include breeding and foraging habitat for seabirds, internesting habitat for marine turtles and a migratory pathway for humpback whales.
Eighty Mile Beach Marine Park	-	✓	-	VI	Eighty Mile Beach Marine Park covers an area of 10,785 km², located ~74 km north-east of Port Hedland, adjacent to the	Eighty Mile Beach Marine Park is significant because it contains habitats, species and ecological communities associated with the Northwest Shelf Province and consists of shallow shelf habitats, including terrace, banks and shoals.

	Woodside Activity Area			IUCN Protected Area Category*		
Protected Area	Browse	NWS/S	NW Cape	or Relevant Park Zone	Description	Conservation Values
					WA Eighty Mile Beach Marine Park.	The AMP supports a range of species including species listed as threatened, migratory, marine or cetacean under the EPBC Act. BIAs within the AMP include breeding, foraging and resting habitat for seabirds, internesting and nesting habitat for marine turtles, foraging, nursing and pupping habitat for sawfishes and a migratory pathway for humpback whales.
Argo – Rowley Terrace Marine Park	*	*	-	II, VI, VI (Trawl)	Argo-Rowley Terrace Marine Park covers an area of 146,003 km², located ~270 km north- west of Broome, and extends to the limit of Australia's EEZ. The AMP is adjacent to the Mermaid Reef Marine Park and the WA Rowley Shoals Marine Park.	Argo—Rowley Marine Park is significant because it contains habitats, species and ecological communities associated with two bioregions: Northwest Transition Timor Province. It includes two KEFs: Canyons linking the Argo Abyssal Plain with the Scott Plateau; and Mermaid Reef and Commonwealth waters surrounding Rowley Shoals. The AMP supports a range of species including species listed as threatened, migratory, marine or cetacean under the EPBC Act. BIAs within the AMP include resting and breeding habitat for seabirds and a migratory pathway for the pygmy blue whale.
Mermaid Reef Marine Park	-	✓	-	II	Mermaid Reef Marine Park covers an area of 540 km², located ~280 km northwest of Broome, adjacent to the Argo–Rowley Terrace Marine Park and ~13 km from the WA Rowley Shoals Marine Park. Mermaid Reef is one of three reefs forming the Rowley Shoals. The other two are Clerke Reef and Imperieuse Reef, to the	Mermaid Reef Marine Park is significant because it contains habitats, species and ecological communities associated with the Northwest Transition. It includes one KEF: Mermaid Reef and Commonwealth waters surrounding Rowley Shoals. The Rowley Shoals have been described as the best geological examples of shelf atolls in Australian waters. The AMP supports a range of species, including species listed as threatened, migratory, marine or cetacean under the EPBC Act. BIAs within the AMP include breeding habitat for seabirds and a migratory pathway for the pygmy blue whale.

	Woodsi	de Activit	y Area	IUCN Protected Area Category*		
Protected Area	Browse	NWS/S	NW Cape	or Relevant Park Zone	Description	Conservation Values
					south-west of the AMP, which are included in the WA Rowley Shoals Marine Park.	
Roebuck Marine Park	-	✓	-	VI	Roebuck Marine Park covers an area of 304 km², located ~12 km offshore of Broome, and is adjacent to the WA Yawuru Nagulagun/Roebuck Bay Marine Park.	Roebuck Marine Park is significant because it contains habitats, species and ecological communities associated with the Northwest Shelf Province and consists entirely of shallow continental shelf habitat. The AMP supports a range of species including species listed as threatened, migratory, marine or cetacean under the EPBC Act. BIAs within the AMP include breeding and resting habitat for seabirds, foraging and internesting habitat for marine turtles, a migratory pathway for humpback whales and foraging habitat for dugong.
Kimberley Marine Park	V	✓	-	II, IV, VI	Kimberley Marine Park covers an area of 74,469 km², located ~100 km north of Broome, extending from the WA State waters boundary north from the Lacepede Islands to the Holothuria Banks offshore from Cape Bougainville.	Kimberley Marine Park is significant because it includes habitats, species and ecological communities associated with three bioregions: Northwest Shelf Province Northwest Shelf Transition Timor Province. It includes two KEFs: Ancient coastline at 125 m depth contour; and Continental slope demersal fish communities. The AMP supports a range of species, including protected species listed as threatened, migratory, marine or cetacean under the EPBC Act. BIAs within the AMP include breeding and foraging habitat for seabirds, internesting and nesting habitat for marine turtles, breeding, calving and foraging habitat for inshore dolphins, calving, migratory pathway and nursing habitat for humpback whales, migratory pathway for pygmy blue whales, foraging habitat for dugong and foraging habitat for whale sharks.
Ashmore Reef Marine Park	√	-	-	Ia, IV	Ashmore Reef Marine Park covers an area of 583 km², located ~630 km north of	Ashmore Reef Marine Park is significant because it includes habitats, species and ecological communities associated with the Timor Province. It includes two KEFs:

	Woodsid	de Activit	y Area	IUCN Protected Area Category*		
Protected Area	Browse	NWS/S	NW Cape	or Relevant Park Zone	Description	Conservation Values
					Broome and 110 km south of the Indonesian island of Roti. The AMP is located in Australia's External Territory of Ashmore and Cartier Islands and is within an area subject to a Memorandum of Understanding (MoU) between Indonesia and Australia, known as the MoU Box.	Ashmore Reef and Cartier Island and surrounding Commonwealth waters; and Continental slope demersal fish communities. The AMP supports a range of species, including species listed as threatened, migratory, marine or cetacean under the EPBC Act. BIAs within the AMP include breeding, foraging and resting habitat for seabirds, resting and foraging habitat for migratory shorebirds, foraging, mating, nesting and internesting habitat for marine turtles, foraging habitat for dugong, and a migratory pathway for pygmy blue whales.
Cartier Island Marine Park	*	-	-	la	Cartier Island Marine Park covers an area of 172 km², located ~45 km south-east of Ashmore Reef Marine Park and 610 km north of Broome. It is also located in Australia's External Territory of Ashmore and Cartier Islands and within an area subject to an MoU between Indonesia and Australia, known as the MoU Box.	Cartier Island Marine Park is significant because it includes habitats, species and ecological communities associated with the Timor Province. It includes two key ecological features: Ashmore Reef and Cartier Island and surrounding Commonwealth waters and continental slope demersal fish communities. The AMP supports a range of species, including species listed as threatened, migratory, marine or cetacean under the EPBC Act. BIAs within the AMP include breeding and foraging habitat for seabirds, internesting, nesting and foraging habitat for marine turtles and foraging habitat for whale sharks. The AMP is also internationally significant for its abundance and diversity of sea snakes, some of which are listed species under the EPBC Act.
Joseph Bonaparte Gulf Marine Park	✓	-	-	VI	Joseph Bonaparte Gulf Marine Park covers an area of 8597 km² and is located ~15 km west of Wadeye, NT, and ~90 km north of Wyndham, WA, in the Joseph Bonaparte Gulf.	Joseph Bonaparte Gulf Marine Park is significant because it contains habitats, species and ecological communities associated with the Northwest Shelf Transition bioregion. It includes one KEF: Carbonate bank and terrace system of the Sahul Shelf. The AMP supports a range of species, including species listed as threatened, migratory, marine or cetacean under

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Protected Area	Woodside Activity Area			IUCN Protected Area Category*		
	Browse	NWS/S	NW Cape	or Relevant Park Zone	Description	Conservation Values
					It is adjacent to the WA North Kimberley Marine Park. The Joseph Bonaparte Gulf Marine Park is located within both the NWMR and NMR.	the EPBC Act. BIAs within the AMP include foraging habitat for marine turtles and the Australian snubfin dolphin.
Oceanic Shoals Marine Park	✓	-	-	II, IV, VI	Oceanic Shoals Marine Park covers an area of 71,743 km² and is located west of the Tiwi Islands, ~155 km north-west of Darwin, NT and 305 km north of Wyndham, WA. The Oceanic Shoals Marine Park is located within both the NWMR and NMR.	Oceanic Shoals Marine Park is significant because it contains habitats, species and ecological communities associated with the Northwest Shelf Transition bioregion. It contains four KEFs: Carbonate bank and terrace systems of the Van Diemen Rise; Carbonate bank and terrace systems of the Sahul Shelf; Pinnacles of the Bonaparte Basin; and Shelf break and slope of the Arafura Shelf. The AMP supports a range of species, including species listed as threatened, migratory, marine or cetacean under the EPBC Act. BIAs within the AMP include foraging and internesting habitat for marine turtles.
				State Marine	Parks and Reserves	
North Kimberley Marine Park	√	-	-	Sanctuary, Special Purpose and General Use Zones	The North Kimberley Marine Park covers approx. 18,450 km² with its south-western boundary located ~270 km north-east of Derby.	The coral reefs of the north Kimberley have the greatest diversity in Western Australia and are some of the most pristine and remarkable reefs in the world. The park surrounds more than 1000 islands and is home to listed species such as dugongs, marine turtles, and sawfishes (DPAW, 2016a).
Lalang-garram / Horizontal Falls Marine Park and North Lalang-garram Marine Park (jointly managed)	✓	•	-	Sanctuary, Special Purpose and General Use Zones	The Lalang-garram / Horizontal Falls Marine Park covers ~3530 km² from Talbot Bay in the west and Glenelg River in the east. The North Lalang-garram Marine Park covers ~1100	The Lalang-garram / Horizontal Falls Marine Park's most celebrated attraction is created by massive tides of up to 10 m and narrow gaps in two parallel tongues of land meaning the tide falls faster than the water can escape, producing 'horizontal falls'. There are also islands with fringing coral reefs and mangrove-lined creeks and bays. The North Lalang-garram Marine Park has a number of islands fringed with coral reef and has been identified as an

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Protected Area	Woodside Activity Area			IUCN Protected Area Category*		
	Browse	NWS/S	NW Cape	or Relevant Park Zone	Description	Conservation Values
					km² between Camden Sound and North Kimberley Marine Parks.	ecological hotspot and supports more than 1% of the world's population of brown boobies, with up to 2000 breeding pairs. About 500 pairs of crested terns also nest on the island (DPAW, 2016b).
Lalang-garram / Camden Sound Marine Park	✓	-	-	Sanctuary, Special Purpose and General Use Zones	Lalang-garram / Camden Sound Marine Park covers 7050 km² located about 150 km north of Derby.	The Lalang-garram / Camden Sound Marine Park is the most important humpback whale nursery in the Southern Hemisphere. It also features the spectacular coastal Montgomery Reef. The marine park is home to six species of threatened marine turtle. Australian snubfin and Indo-Pacific humpback dolphins, dugongs, saltwater crocodiles, and several species of sawfish (DPAW, 2013).
Rowley Shoals Marine Park	-	✓	-	Sanctuary, Recreation and General Use Zones	The Rowley Shoals comprise of three reef systems, Mermaid Reef, Clerke Reef and Imperieuse Reef, all 30-40 km apart. These reef systems are located ~300 km west north-west of Broome.	The three coral atolls of the Rowley Shoals Marine Park comprise of shallow lagoons inhabited by diverse corals and abundant marine life, each covering around 80 km² at the edge of Australia's continental shelf. Further offshore, the seafloor slopes away to the abyssal plain, some 6000 m below. Undersea canyons slice the slope; these features are commonly associated with diverse communities of deep-water corals and sponges and create localised upwellings that aggregate pelagic species like tunas and billfish (DEC, 2007a).
Yawuru Nagulagun / Roebuck Bay Marine Park	-	V	-	Special Purpose Zone	Yawuru Nagulagun / Roebuck Bay Marine Park is a series of intertidal flats lying on the coast to the south-east of Broome.	Roebuck Bay is an internationally significant wetland and one of the most important feeding grounds for migratory shorebirds in Australia. Australian snubfin and Australian humpback dolphins frequent the waters and humpback whales pass through on their annual migration. Flatback turtles nest on the shores and are found in the bay's waters with other sea turtle species. Seagrass and macroalgae communities provide food for protected species such as the dugong and flatback turtle (DPAW, 2016c).
Eighty Mile Beach Marine Park	-	√	-	Sanctuary, Recreation, Special	Eighty Mile Beach Marine Park covers ~2000 km² stretching across 220km of	Eighty Mile Beach Marine Park is one of the world's most important feeding grounds for small wading birds that migrate to the area each summer, travelling from countries

Protected Area	Woodside Activity Area			IUCN Protected Area Category*		
	Browse	NWS/S	NW Cape	or Relevant Park Zone	Description	Conservation Values
				Purpose and General Use Zones	coastline between Port Hedland and Broome.	thousands of kilometres away. The marine park is a major nesting area for flatback turtles which are found only in northern Australia. Sawfishes, dugongs, dolphins and millions of invertebrates inhabit the sand and mud flats, seagrass meadows, coral reefs and mangroves (DPAW, 2014).
Montebello Islands Marine Park, Barrow Island Marine Park and Barrow Island Marine Management Area (jointly managed)	-	✓	-	Sanctuary, Recreation, General Use and Special Purpose Zones	The Montebello Islands Marine Park, Barrow Island Marine Park and Barrow Island Marine Management Area are located off the north-west coast of WA, ~1600 km north of Perth, and cover areas of ~583 km², 42 km² and 1,147 km², respectively.	The Montebello/Barrow islands marine conservation reserves have very complex seabed and island topography, resulting in a myriad of different habitats subtidal coral reefs, macroalgal and seagrass communities, subtidal soft-bottom communities, rocky shores and intertidal reef platforms, which support a rich diversity of invertebrates and finfish. The reserves are important breeding areas for several species of marine turtles and seabirds, which use the undisturbed sandy beaches for nesting. Humpback whales migrate through the reserves and dugongs occur in the shallow warm waters (DEC, 2007b).
Ningaloo Marine Park and Muiron Islands Marine Management Area (jointly managed)	-	-	✓	Sanctuary, Recreation, General Use and Special Purpose Zones	The Ningaloo Marine Park and Muiron Islands Marine Management Area are located off the North-west Cape of WA, ~1200 km north of Perth, and cover areas of ~2633 km² and 286 km², respectively.	Ningaloo Reef is the largest fringing coral reef in Australia. Temperate and tropical currents converge in the Ningaloo region resulting in highly diverse marine life including spectacular coral reefs, abundant fishes and species with special conservation significance such as turtles, whale sharks, dugongs, whales and dolphins. The region has diverse marine communities including mangroves, algae and filter-feeding communities and has high water quality. These values contribute to the Ningaloo Marine Park being regarded as the State's premier marine conservation icon. The Muiron Islands Marine Management Area is also important, containing a very diverse marine environment, with coral reefs, filter-feeding communities and macroalgal beds. In addition, the Islands are important seabird and green turtle nesting areas. (CALM, 2005a).

Protected Area	Woodside Activity Area			IUCN Protected Area Category*		
	Browse	NWS/S	NW Cape	or Relevant Park Zone	Description	Conservation Values
Shark Bay Marine Park and Hamelin Pool Marine Nature Reserve (jointly managed)	-	-	✓	Sanctuary, Recreation, General Use and Special Purpose Zones	The Shark Bay Marine Park and Hamelin Pool Marine Nature Reserves are located 400 km north of Geraldton, covering areas of ~7487 km² and 1270 km², respectively.	Seagrass covers over 4000 km² of the Shark Bay Marine Park, with 12 different species making it one of the most diverse seagrass assemblages in the world. Dugongs regularly use this habitat, with the bay containing one of the largest dugong populations in the world. Humpback whales also use the bay as a staging post in their migration along the coast. Green and loggerhead turtles occur in the bay with Dirk Hartog Island providing the most important nesting site for loggerheads in Western Australia. Hamelin Pool contains the most diverse and abundant examples of stromatolites found in the world. These are living representatives of stromatolites that existed some 3500 million years ago (CALM, 1996).

*Conservation objectives for IUCN categories include:

la: Strict Nature Reserve

Ib: Wilderness Area

II: national Park

III: Natural Monument or Feature

IV: Habitat/Species Management Area

V: Protected Landscape

VI: Protected area with sustainable use of natural resources – allow human use but prohibits large scale development.

IUCN categories for the marine park are provided and, in brackets, the IUCN categories for specific zones within each Marine Park as assigned under the North-west Marine Parks Network Management Plan 2018 (DNP, 2018a)

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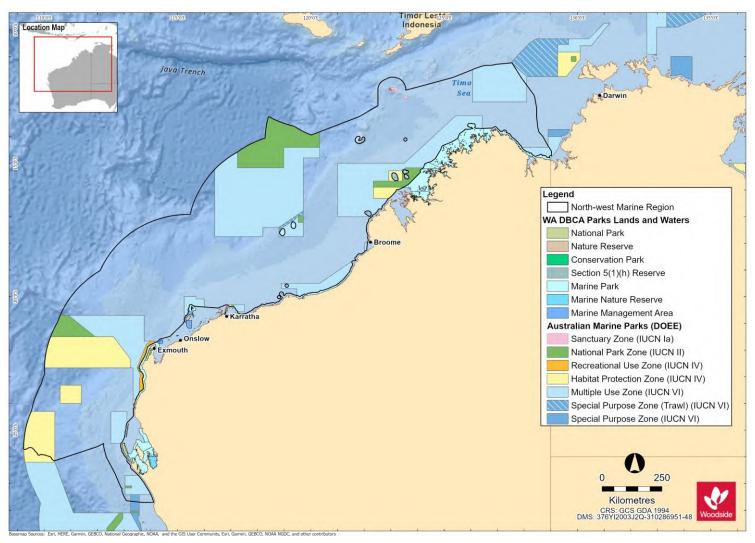


Figure 10-1 Commonwealth and State Marine Protected Areas for the NWMR

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10.10 Summary of Protected Areas within the SWMR

Table 10-2 Protected Areas within the SWMR

Protected Area	IUCN Protected Area Category* or Relevant Park Zone	Description	Conservation Values
		World Heritage Pro	operties
N/A			
		National Heritage Plac	es - Natural
N/A			
		Commonwealth Heritage	Places - Natural
N/A			
		Wetlands of International Im	portance (Ramsar)
Beecher Point Wetlands	Ramsar	Beecher Point Wetlands is a system of about sixty small wetlands located near Rockingham in southwest WA, covering an area of around 7 km². The site was listed under the Ramsar Convention in 2001.	The wetlands support sedgelands, herblands, grasslands, open-shrublands and low open-forests. The sedgelands that occur within the linear wetland depressions of the Ramsar site are a nationally listed TEC. At least four species of amphibians and twenty-one (21) species of reptiles have been recorded on the site. The site also supports the southern brown bandicoot. The site meets criteria 1 and 2 of the Ramsar Convention.
Forrestdale and Thomsons Lakes	Ramsar	Forrestdale Lake is located in the City of Armadale and Thomsons Lake is located in the City of Cockburn both of which lie within the southern Perth metropolitan area, in Western Australia. The site was listed under the Ramsar Convention in 1990.	The lakes are surrounded by medium density urban development and some agricultural land. The sediments of Thomsons Lake are between 30,000 and 40,000 years old, which are the oldest lake sediments discovered in WA to date. These lakes are the best remaining examples of brackish, seasonal lakes with extensive fringing sedgeland, typical of the Swan Coastal Plain. The site meets criteria 1, 3, 5 and 6 of the Ramsar Convention.
Peel-Yalgorup System	Ramsar	Peel-Yalgorup System, located adjacent to the City of Mandurah in	Peel-Yalgorup System Ramsar site is the most important area for waterbirds in south-western Australia. It supports a large number of waterbirds, and a

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Protected Area	IUCN Protected Area Category* or Relevant Park Zone	Description	Conservation Values	
		WA, is a large and diverse system of shallow estuaries, coastal saline lakes and freshwater marshes. The site was listed under the Ramsar Convention in 1990.	wide variety of waterbird species. It also supports a wide variety of invertebrates, and estuarine and marine fish. The site meets criteria 1, 3, 5 and 6 of the Ramsar Convention.	
Vasse-wonnerup system	Ramsar	Vasse-Wonnerup System Ramsar wetland is situated in the Perth Basin, south-western WA. The site was listed under the Ramsar Convention in 1990.	Vasse-Wonnerup System is an extensive, shallow, nutrient-enriched wetland system of highly varied salinities. Large areas of the wetland dry out in late summer. Vasse-Wonnerup System supports tens of thousands of resident and migran waterbirds of a wide variety of species. More than 80 species of waterbird have been recorded in the System such as red-necked avocets and blackwinged stilts, wood sandpiper, sharp-tailed sandpiper, long-toed stint, curlew sandpiper and common greenshank. Thirteen waterbird species are also known to breed at the Ramsar site, including the largest regular breeding colony of black swans in south-western Australia. The site meets criteria 5 and 6 of the Ramsar Convention.	
		Wetlands of National Importa	nnce (DAWE, 2019)	
Rottnest Island Lakes		The Rottnest Island Lakes site is the cluster of 18 lakes and swamps on the north-east part of Rottnest Island.	An outstanding example of a series of lakes/swamps of varied depth and salinity located on an offshore island; the only island among 200 plus in WA exceeding 10 ha in area, that has a salt-lake complex; the only known example of seasonally meromictic lakes in Australia. The area meets criteria 1, 2, 3 and 6 for inclusion on the Directory of Important Wetlands in Australia.	
		Australian Marine Parks	(DNP, 2018b)	
Abrolhos Marine Park	II, IV, VI	The Abrolhos Marine Park is located within both the NWMR and SWMR. Refer Table 10-1 for description and conservation values.		
Bremer Marine Park	II, VI	Bremer Marine Park covers an area of 4472 km² and is located approximately half-way between Albany and Esperance, offshore from the Fitzgerald River National Park, extending from the WA State waters boundary.	Bremer Marine Park is significant because it contains habitats, species and ecological communities associated with two bioregions: • Southern Province • South-west Shelf Province. It includes two KEFs: Albany Canyon group and adjacent shelf break; and Ancient coastline at 90-120 m depth.	

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Protected Area	IUCN Protected Area Category* or Relevant Park Zone	Description	Conservation Values	
			The AMP supports a range of species including species listed as threatened, migratory, marine or cetacean under the EPBC Act. BIAs within the AMP include foraging habitat for seabirds, Australian sea lions, and white sharks, a migratory pathway for humpback whales, and a significant calving area for southern right whales. The AMP includes canyons—important aggregation areas for killer whales.	
Eastern Recherche Marine Park	II, VI	Eastern Recherche Marine Park covers an area of 20,575 km² and is located ~135 km east of Esperance, adjacent to the Recherche Archipelago, close to the WA Cape Arid National Park.	Eastern Recherche Marine Park is significant because it contains habitats, species and ecological communities associated with three bioregions: • South-west Shelf Province • Southern Province • Great Australian Bight Shelf Transition. It includes three KEFs: Mesoscale eddies; Ancient coastline at 90-120 m depth; and Commonwealth marine environment surrounding the Recherche Archipelago. The AMP supports a range of species including species listed as threatened, migratory, marine or cetacean under the EPBC Act. BIAs within the AMP include foraging habitat for seabirds, Australian sea lions and white sharks, and a calving buffer area for southern right whales.	
Geographe Marine Park	II, IV, VI	Geographe Marine Park covers an area of 977 km² and is located in Geographe Bay, ~8 km west of Bunbury and 8 km north of Busselton, adjacent to the WA Ngari Capes Marine Park.	Geographe Marine Park is significant because it contains habitats, species and ecological communities associated with the South-west Shelf Province bioregion. It includes two KEFs: Commonwealth marine environment within and adjacent to Geographe Bay; and Western rock lobster. The AMP supports a range of species including species listed as threatened, migratory, marine or cetacean under the EPBC Act. BIAs within the AMP include foraging habitat for seabirds, a migratory pathway for humpback and pygmy blue whales, and a calving buffer area for southern right whales.	
Great Australian Bight Marine Park	II, VI	Great Australian Bight Marine Park covers an area of 45,822 km² and is located ~12 km south-east of Eucla and 174 km west of Ceduna, adjacent to the SA Far West Coast and Nuyts Archipelago Marine Parks.	Great Australian Bight Marine Park is significant because it contains habitats, species and ecological communities associated with two bioregions: • Great Australian Bight Shelf Transition • Southern Province. It includes three KEFs: Ancient coastline at 90-120 m depth; Benthic invertebrate communities of the eastern Great Australian Bight; and Small pelagic fish of the South-west Marine Region. The AMP supports a range of species including species listed as threatened, migratory, marine or cetacean under the EPBC Act. BIAs within the AMP include foraging habitat for seabirds, Australian sea lions, white sharks and	

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Protected Area	IUCN Protected Area Category* or Relevant Park Zone	Description	Conservation Values	
			pygmy blue and sperm whales, and a calving area, migratory pathway and large aggregation area for southern right whales.	
Jurien Marine Park	II, VI	Jurien Marine Park covers an area of 1851 km² and is located ~148 km north of Perth and 155 km south of Geraldton, adjacent to the WA Jurien Bay Marine Park.	Jurien Marine Park is significant because it includes habitats, species and ecological communities associated with two bioregions: • South-west Shelf Transition • Central Western Province. It includes three KEFs: Ancient coastline at 90-120 m depth; Demersal slope and associated fish communities of the Central Western Province; and Western rock lobster The AMP supports a range of species including species listed as threatened, migratory, marine or cetacean under the EPBC Act. BIAs within the AMP include foraging habitat for seabirds, Australian sea lions and white sharks, and a migratory pathway for humpback and pygmy blue whales.	
Perth Canyon Marine Park	II, IV, VI	Perth Canyon Marine Park covers an area of 7409 km² and is located ~52 km west of Perth and ~19 km west of Rottnest Island.	Perth Canyon Marine Park is significant because it includes habitats, species and ecological communities associated with four bioregions: • Central Western Province • South-west Shelf Province • Southwest Transition • South-west Shelf Transition. It includes four KEFs: Perth Canyon and adjacent shelf break, and other west-coast canyons; Demersal slope and associated fish communities of the Central Western Province; Western rock lobster; and Mesoscale eddies. The AMP supports a range of species including species listed as threatened, migratory, marine or cetacean under the EPBC Act. BIAs within the AMP include foraging habitat for seabirds, Antarctic blue, pygmy blue and sperm whales, a migratory pathway for humpback, Antarctic blue and pygmy blue whales, and a calving buffer area for southern right whales.	
South-west Corner Marine Park	II, IV, VI	South-west Corner Marine Park covers an area of 271,833 km² and is located adjacent to the WA Ngari Capes Marine Park. It covers an extensive offshore area that is closest to WA State waters ~48 km west of Esperance, 73 km west of Albany and 68 km west of Bunbury.	South-west Corner Marine Park is significant because it contains habitats, species and ecological communities associated with three bioregions: • Southern Province • South-west Transition • South-west Shelf Province. It includes six KEFs: Albany Canyon group and adjacent shelf break; Cape Mentelle upwelling; Diamantina Fracture Zone; Naturaliste Plateau; Western rock lobster; and Ancient coastline at 90 m-120 m depth.	

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Protected Area	IUCN Protected Area Category* or Relevant Park Zone	Description	Conservation Values	
			The AMP supports a range of species including species listed as threatened, migratory, marine or cetacean under the EPBC Act. BIAs within the AMP include foraging habitat for seabirds, Australian sea lions, white sharks and sperm whales, a migratory pathway for Antarctic blue, pygmy blue and humpback whales, and a calving buffer area for southern right whales.	
Twilight Marine Park	II, VI	Twilight Marine Park covers an area of 4641 km² and is located ~245 km south-west of Eucla and 373 km north-east of Esperance, adjacent to the WA State waters boundary.	Twilight Marine Park is significant because it contains habitats, species and ecological communities associated with the Great Australian Bight Shelf Transition bioregion. The AMP supports a range of species including species listed as threatened, migratory, marine or cetacean under the EPBC Act. BIAs within the AMP include foraging habitat for seabirds, Australian sea lions and white sharks, and a calving buffer area for southern right whales.	
Two Rocks Marine Park	II, VI	Two Rocks Marine Park covers an area of 882 km² and is located ~25 km north-west of Perth, to the north-west of the WA Marmion Marine Park.	Two Rocks Marine Park is significant because it includes habitats, species and ecological communities associated with the South-west Shelf Transition bioregion. It includes three KEFs: Commonwealth marine environment within and adjacent to the west-coast inshore lagoons; Western rock lobster; and Ancient coastline at 90-120 m depth. The AMP supports a range of species including species listed as threatened, migratory, marine or cetacean under the EPBC Act. BIAs within the AMP include foraging habitat for seabirds and Australian sea lions, a migratory pathway for humpback and pygmy blue whales, and a calving buffer area for southern right whales.	
		State Marine Parks an	d Reserves	
Jurien Bay Marine Park	Sanctuary, Special Purpose and General Use Zones.	The Jurien Bay Marine Park is located on the central west coast of WA ~200 km north of Perth and covers an area of 824 km².	An extensive limestone reef system parallel to the shore has created a huge shallow lagoon that provides perfect habitat for Australian sea lions, dolphins and a myriad of juvenile fish. Extensive seagrass meadows inside the reef shelter many marine animals such as western rock lobsters, octopus and cuttlefish that make up the diet of young sea lions. The marine park also surrounds dozens of ecologically important islands that contain rare and endangered animals found nowhere else in the world (CALM, 2005b).	
Marmion Marine Park	Sanctuary, Recreation and Special Use Zones.	The Marmion Marine Park lies within State waters between Trigg Island and Burns Beach and encompasses a coastal area of ~95 km². Marmion	The marine park has a number of sanctuary zones including Little Island, The Lumps and the Boyinaboat Reef protecting a variety of habitats from limestone reefs, seagrass beds and clear shallow lagoons that support a diversity of marine life. In addition, to a general use zone and the Waterman Recreation Area. The marine park contains important habitat for the endemic Australian	

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Protected Area	IUCN Protected Area Category* or Relevant Park Zone	Description	Conservation Values	
		Marine Park was the State's first marine park, declared in 1987.	sea lion, an array of seabird species migratory whales are regular visitors (CALM, 1992; DPAW, 2016d).	
Swan Estuary Marine Park	Special Purpose and Nature Reserve Zones.	Three biologically important areas of Perth's Swan River make up the Swan Estuary Marine Park, including Alfred Cove, Pelican Point and Crawley. These three sites cover a total area of 3.4 km ² .	Estuary Marine Park provide the only remaining significant feeding and resting areas in the Swan Estuary, for trans-equatorial migratory wading and	
Shoalwater Islands Marine Park	Sanctuary, Special Purpose and General Use Zones.	The Shoalwater Islands Maine Park is located adjacent to Rockingham on the south-west coast of WA, ~50 km south of Perth and covers an area of ~66 km².	The Shoalwater Islands Marine Park consists of a complex seabed and coastal topography consisting of islands, limestone ridges and reef platforms, protected inshore areas and deeper basins, sandbars and beaches, and is home to five species of cetacean and 14 species of sea and shore bird. The waters of the marine park are also used to access feeding grounds for the little penguin (<i>Eudyptula minor</i>) colony on Penguin Island, which is close to the northernmost limit of the species' range and is the largest known breeding colony in Western Australia (DEC, 2007c).	
Ngari Capes Marine Park	Sanctuary, Special Purpose and Recreation Zones.	The Ngari Capes Marine Park is located off the south-west coast of WA, ~250 km south of Perth, covering ~1238 km².	The Ngari Capes Marine Park consists of a complex arrangement of sandy bays, high energy limestone and granite reefs bordered by headlands and cliffs and two weathered capes. Coral communities consist of both tropical and temperate species. Cetaceans and pinnipeds are resident in and/or transient through the marine park as well as a diverse range of seabirds and shorebirds (DEC, 2013).	
Walpole and Nornalup Inlets Marine Park	Recreation Zone.	The Walpole and Nornalup Inlets Marine Park is located adjacent to the towns of Walpole and Nornalup on the south coast of WA, ~120 km west of Albany, and covers ~14 km².	The Walpole and Nornalup Inlets Marine Park consists of a geologically complex lagoonal estuarine system comprising three significant rivers and two connected inlets that are permanently open to the ocean. Approximately 40 marine and estuarine finfish species commonly inhabit the inlet system, as well as a variety of shark and ray species and numerous seabirds and shorebirds. The sandy beaches and shoreline vegetation of the inlet system are of high ecological and social importance to the marine park (DEC, 2009).	

^{*}Conservation objectives for IUCN categories include:

Ia: Strict Nature Reserve

Ib: Wilderness Area

II: national Park

III: Natural Monument or Feature

IV: Habitat/Species Management Area

V: Protected Landscape

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cription of the Existing Environment	
rotected area with sustainable use of natural resources – allow human use but prohibits large scale development.	
categories for the marine park are provided and, in brackets, the IUCN categories for specific zones within each Marine Park as assigned under the South-west Marine Parks Network (IDNP, 2018b)	work

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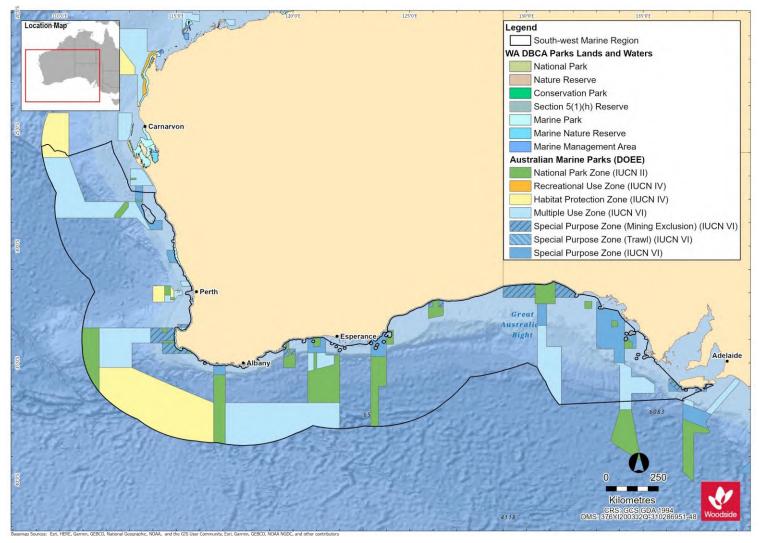


Figure 10-2. Commonwealth and State Marine Protected Areas for the SWMR

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10.11 Summary of Protected Areas within the NMR

Table 10-3 Protected Areas within the NMR

Protected Area	IUCN Protected Area Category* or Relevant Park Zone	Description	Conservation Values		
		World Heritage Pr	operties		
Kakadu National Park		Kakadu National Park is a living landscape with exceptional natural and cultural values. It is the largest National Park in Australia and preserves the greatest variety of ecosystems on the Australian continent including extensive areas of floodplains, mangroves, tidal mudflats, coastal areas and monsoon forests. The park was inscribed the World Heritage list in three stages over 11 years. It is located in tropical north Australia covering a total area of 19,804 square kilometres.	The conservation values reflect the WHA Criterion: (i), (vi), (vii) and (ix): Natural features relate to Criterion (vii) – the remarkable contrast between the internationally recognised Ramsar-listed wetlands and the spectacular rocky escarpment and its outliers and Criterion (ix) – four major river systems of tropical Australia and floodplains that are dynamic environments, shaped by changing sea levels and big floods every wet season. These floodplains illustrate the ecological and geomorphological effects that have accompanied Holocene climate change and sea level rise. Kakadu National Park contains important and significant habitats supporting a diverse range of flora and fauna.		
		National Heritage Plac	ees - Natural		
Kakadu National Park		Refer to World Heritage property description above.	Refer to World Heritage property conservation values above		
		Commonwealth Heritage	Places - Natural		
N/A					
		Wetlands of International Im	portance (Ramsar)		
Kakadu National Park		Australian Ramsar site number 2. The stage 1 and 2 Ramsar sites, established in 1980, 1985 and 1989, respectfully were combined into a single Ramsar site in 2010.	The Kakadu National Park Ramsar site straddles the western edge of the Arnhem Land Plateau encompassing a range of landforms and extensive floodplains. It is a mosaic of contiguous wetlands comprising the catchments of two large river systems, the East and South Alligator rivers and encompasses extensive tidal mudflat areas. It is an internationally important site for migratory shorebirds as part of the EAAF.		
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Protected Area	IUCN Protected Area Category* or Relevant Park Zone	Description	Conservation Values	
Cobourg Peninsula		Australian Ramsar site number 1 established in 1974. This Ramsar site includes freshwater and extensive intertidal areas but excludes subtidal areas. It is in a remote location and there has been minimal human impact on the site.	The wetlands encompassed in the Ramsar site are some of the better protected and near-natural wetlands in the bioregion and there is a diverse array of wetland in a confined area. The site supports important turtle nesting habitat and habitat for coastal dolphin species and is an internationally significant migratory shorebird habitat as part of the EAAF and an important location for seabird breeding colonies.	
		Wetlands of National Importa	ance (DAWE, 2019)	
Southern Gulf Aggregation			The Southern Gulf Aggregation is the largest continuous estuarine wetland aggregation of its type in northern Australia. It is one of the three most important areas for shorebirds in Australia. The area meets criteria 1, 2, 3, 4, 5 and 6 for inclusion on the Directory of Important Wetlands in Australia.	
		Australian Marine Parks	(DNP, 2018c)	
Arafura Marine Park	VI	Arafura Marine Park covers an area of 22,924 km² is located ~256 km north-east of Darwin and 8 km offshore of Croker Island, NT. It extends from NT waters to the limit of Australia's EEZ.	The AMP is significant because it contains habitats, species and ecological communities associated with two bioregions: Northern Shelf Province Timor Transition. It includes one KEF: Tributary canyons of the Arafura Depression. The AMP supports a range of species, including species listed as threatened, migratory, marine or cetacean under the EPBC Act. BIAs within the AMP include internesting habitat for marine turtles and important foraging and breeding habitat for seabirds.	
Arnhem Marine Park	VI	Arnhem Marine Park covers an area of 7125 km² and is located ~100 km south-east of Croker Island and 60 km south-east of the Arafura Marine Park. It extends from NT waters surrounding the Goulburn Islands, to the waters north of Maningrida.	Arnhem Marine Park is significant because it contains habitats, species and ecological communities associated with the Northern Shelf Province bioregion. The AMP supports a range of species, including species listed as threatened, migratory, marine or cetacean under the EPBC Act. BIAs within the AMP include foraging habitat and a migratory pathway for marine turtles and seabirds.	
Gulf of Carpentaria Marine Park	II, VI	Gulf of Carpentaria Marine Park covers an area of 23,771 km² and is located ~90 km north-west of Karumba, Queensland and is adjacent to the Wellesley Islands in	Gulf of Carpentaria Marine Park is significant because it contains habitats, species and ecological communities associated with the Northern Shelf Province bioregion.	

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Protected Area	IUCN Protected Area Category* or Relevant Park Zone	Description	Conservation Values	
		the south of the Gulf of Carpentaria basin.	It includes four KEFs: Gulf of Carpentaria basin; Gulf of Carpentaria coastal zone; Plateaux and saddle north-west of the Wellesley Islands; and Submerged coral reefs of the Gulf of Carpentaria. The AMP supports a range of species, including species listed as threatened, migratory, marine or cetacean under the EPBC Act. BIAs within the AMP include breeding and foraging areas for seabirds and internesting and foraging areas for turtles.	
Joseph Bonaparte Gulf Marine Park	VI	The Joseph Bonaparte Gulf Marine Park is located within both the NWMR and NMR. Refer Table 10-1 for description and conservation values.		
Limmen Marine Park	IV	Limmen Marine Park covers an area of 1399 km² and is located ~315 km south-west of Nhulunbuy, NT, in the south-west of the Gulf of Carpentaria. It extends from NT waters, between the Sir Edward Pellew Group of Islands and Maria Island in the Limmen Bight, adjacent to the NT Limmen Bight Marine Park.	Limmen Marine Park is significant because it contains habitats, species and ecological communities associated with the Northern Shelf bioregion. It includes one KEF: Gulf of Carpentaria coastal zone. The AMP supports a range of species, including species listed as threatened, migratory, marine or cetacean under the EPBC Act. BIAs within the AMP include internesting and foraging habitat for marine turtles.	
Oceanic Shoals Marine Park	II, IV, VI	The Oceanic Shoals Marine Park is located within both the NWMR and NMR. Refer Table 10-1 for description and conservation values.		
Wessel Marine Park	IV, VI	Wessel Marine Park covers an area of 5908 km² and is located ~22 km east of Nhulunbuy, NT. It extends from NT waters adjacent to the tip of the Wessel Islands to NT waters adjacent to Cape Arnhem.	Wessel Marine Park is significant because it contains habitats, species and ecological communities associated with the Northern Shelf bioregion. It includes one KEF: Gulf of Carpentaria basin. The AMP supports a range of species, including species listed as threatened, migratory, marine or cetacean under the EPBC Act. BIAs within the AMP include breeding habitat for seabirds and internesting and foraging habitat for marine turtles.	
West Cape York Marine Park	II, IV, VI	West Cape York Marine Park covers an area of 16,012 km² and is located adjacent to the northern end	West Cape York Marine Park is significant because it contains species and ecological communities associated with two bioregions: • Northeast Shelf Transition	

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Protected Area	IUCN Protected Area Category* or Relevant Park Zone	Description	Conservation Values	
		of Cape York Peninsula ~25 km south-west of Thursday Island and 40 km north-west of Weipa, Queensland.	Northern Shelf Province. It includes two KEFs: Gulf of Carpentaria basin; and Gulf of Carpentaria coastal zone. The AMP supports a range of species, including species listed as threatened, migratory, marine or cetacean under the EPBC Act. BIAs within the AMP include breeding and foraging habitat for seabirds, internesting and foraging habitat for marine turtles and dugong, and foraging, breeding and calving habitat for dolphins.	
		Territory Marine Parks a	and Reserves	
Cobourg Marine Park	II, IV, VI	Cobourg Marine Park covers an area of 2,290 km² and is located in the waters surrounding the Cobourg Peninsula ~220 km north-east of Darwin. The Marine Park is part of the larger Garig Gunak Barlu National Park. Garig Gunak Barlu National Park includes both the Marine Park and the Cobourg Sanctuary.	Cobourg Marine Park is located in the Cobourg and Van Diemen Gulf marine bioregions with the northern portion of the Park covered by the Cobourg marine bioregion and the southern portion covered by the Van Diemen Gulf marine bioregion. The Marine Park is characterised by a number of deeply incised bays and estuaries on its northern shores. These bays are ancient river valleys that were drowned during periods of sea level rise and provide a varied environment and habitat that is quite distinct from the open water areas of the Park. The areas of the Park that have been studied and where extensive collections have been made indicates that the Park supports rich and diverse marine life including live coral reefs, seagrass, diverse reef and pelagic fish populations, marine turtles and dugong.	

*Conservation objectives for IUCN categories include:

la: Strict Nature Reserve

Ib: Wilderness Area

II: National Park

III: Natural Monument or Feature

IV: Habitat/Species Management Area

V: Protected Landscape

VI: Protected area with sustainable use of natural resources – allow human use but prohibits large scale development.

IUCN categories for the marine park are provided and, in brackets, the IUCN categories for specific zones within each Marine Park as assigned under the North Marine Parks Network Management Plan 2018 (DNP, 2018c)

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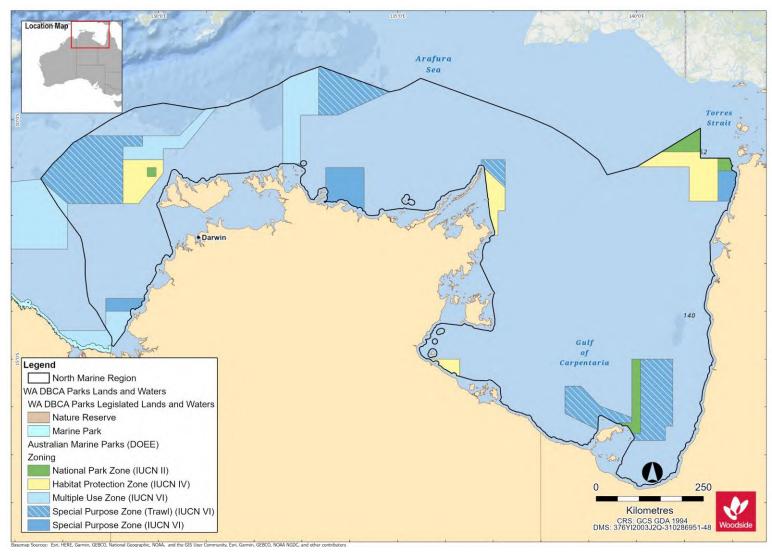


Figure 10-3. Commonwealth and State Marine Protected Areas within the NMR

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11. SOCIO-ECONOMIC AND CULTURAL ENVIRONMENT

This section summarises the information relating to the socio-economic and cultural environment of the regions offshore Western Australia, with a focus on the NWMR and to a lesser extent the SWMR and NWR.

The cultural environment includes Indigenous and European heritage values, including underwater values such as historic shipwrecks. Socio-economic values include commercial and traditional fishing, tourism and recreation, shipping, oil and gas activities and defence activities.

11.1 Cultural Heritage

11.1.1 Indigenous Sites of Significance

Murujuga (the Burrup Peninsula) has a very high density of significant Indigenous heritage sites and places with tangible and intangible heritage values. The area has one of the largest, densest, and most diverse collections of rock art in the world. It is estimated that the peninsula and surrounding islands contain over a million petroglyphs (rock engravings) covering a broad range of styles and subjects. The landscape also contains quarries, middens, fish traps, rock shelters, ceremonial sites, artefact scatters, grinding patches and stone arrangements that evidence tens of thousands of years of human occupation. These places are linked to Aboriginal cosmology, Dreaming stories and songs through the stories, knowledge and customs that are still held by traditional custodians.

In 2007 the Dampier Archipelago (including the Burrup Peninsula) was included on the National Heritage List due to outstanding heritage values relating to Australia's cultural history contained in the large number, density, diversity, distribution and fine execution of rock art. Within the National Heritage Place, the Murujuga National Park covers 4913 ha and is co-managed by the Murujuga Aboriginal Corporation and the Department of Biodiversity, Conservation and Attractions. The Murujuga Cultural Landscape was also added to Australia's Tentative World Heritage List in 2020, with full World Heritage Listing anticipated in 2024.

Woodside also recognises the potential for heritage to survive in submerged landscapes. Sea-level rises since the last ice age mean that areas now under the sea were once exposed, that many of today's islands would have been connected to the mainland, and that Aboriginal people are highly likely to have inhabited these places. Woodside works with traditional custodians, academics and heritage professionals to identify tangible and intangible heritage values in the submerged landscape to avoid disturbing heritage where possible and to minimise impacts where heritage cannot be avoided.

It is an offence to excavate, destroy, damage, conceal or alter Indigenous heritage onshore or in state waters under section 17 of the *Aboriginal Heritage Act 1972 (WA) (AHA)* without ministerial authorisation. Where there is a risk of injury or desecration to a significant Aboriginal area, even where permitted under the AHA, any Aboriginal person may apply to the federal Environment Minister for a declaration under sections 9 or 10 of the *Aboriginal and Torres Strait Islander Heritage Protection Act 1984 (Cth)* for the protection and preservation of that area.

The Department of Planning, Lands and Heritage maintains a register of registered sites and heritage places including middens, burial, ceremonial [sites], artefacts, rock shelters, mythological [sites] and engraving sites. There are over 1600 registered sites on Murujuga and the Dampier Archipelago with around 1100 other heritage places. This register is not comprehensive and will be complemented by heritage surveys where necessary. Protection of National and World Heritage values is also legislated through various provisions of the *Environment Protection and Biodiversity Conservation Act 1999 (Cth)*. Murujuga National Park is managed under the *Conservation and Land Management Act 1984 (WA)*.

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11.1.2 European Sites of Significance

European sites of significance and heritage value are found along adjacent foreshores of the SWMR, NWMR and NWR. Heritage values are protected in Western Australia under the *Heritage Act 2018*.

11.1.3 Underwater Cultural Heritage

Places of historic cultural significance are protected under Commonwealth, State and local regimes. Places inscribed on the National or World Heritage list are protected through various provisions of the *Environment Protection and Biodiversity Conservation Act 1999* (Cth). Historic places may also be protected under the *Heritage Act 2018* (WA); under section 129 the prohibited alteration, demolition, damage, despoilment or removal of objects from a registered place may result in a fine of A\$1 million. Protection of heritage by local government typically emanates from local planning schemes produced under Part 5 of the *Planning and Development Act 2005* (WA).

The remains of vessels and aircraft in Commonwealth waters, along with any associated article, are automatically protected under the *Underwater Cultural Heritage Act 2018* (Cth) after 75 years. Remains and relics of any ship lost, wrecked or abandoned in Western Australian waters before 1900 are protected by the *Maritime Archaeology Act 1973* (WA).

The Australian National Shipwreck Database and the WA Maritime Museum Shipwreck Database list these protected wrecks.

11.1.4 National and Commonwealth Listed Heritage Places

Australia's National Heritage Sites are those of outstanding natural, historic and/or Indigenous significance to Australia. National Heritage places classed as natural are discussed in **Section 10.3**. Historic and/or Indigenous National Heritage Listed Places of the NWMR include:

- Dampier Archipelago (including Burrup Peninsula)
- Dirk Hartog Landing Site/Cape Inscription
- HMAS Sydney II and the HSK Kormoran Shipwreck Sites
- Batavia Shipwreck Site and Survivor Camps Area 1629 Houtman Abrolhos

Commonwealth Heritage Places are a collection of sites recognised for their Indigenous, historical and/or natural values, which are owned or controlled by the Australian Government. A number of these sites are owned or controlled by the Department of Defence, as well as Government agencies relating to maritime safety, customs and communication. Commonwealth Heritage places classed as natural are discussed in **Section 10.3**. Listed Heritage Places in the NWMR include:

- Mermaid Reef Rowley Shoals (refer Section 10.3)
- Ashmore Reef National Nature Reserve (refer Section 10.3)
- Scott Reef and Surrounds Commonwealth Area (refer **Section 10.3**)
- Ningaloo Marine Area (refer Section 10.3)

World Heritage Properties are those sites that hold universal value which transcends any value they may be held by any one nation. These sites and their qualities are detailed in the Convention concerning the Protection of the World Cultural and Natural Heritage (the World Heritage Convention), to which Australia is a founding member. The Protected Matters Search Report (**Appendix A**) lists two natural World Heritage Properties in the NWMR (refer **Section 10.2**). There are no cultural heritage listings located within the NWMR.

Summary tables of heritage places for NWMR, SWMR and NMR are presented in **Table 11-1,Table 11-2** and **Table 11-3**.

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11.2 Summary of Heritage Places within the NWMR

Table 11-1 Heritage Places (Indigenous and Historic) within the NWMR

	Woodside Activity Area					
Heritage Places	Browse	NWS/S	NW Cape	Class	Description	Conservation Values
				Natio	onal Heritage Properties	
Dampier Archipelago (including Burrup Peninsula)	-	✓	-	Indigenous	The Dampier Archipelago (including the Burrup Peninsula) contains one of the densest concentrations of rock engravings in Australia with some sites containing thousands or tens of thousands of images.	The rock engravings comprise images of avian, marine and terrestrial fauna, schematised human figures, figures with mixed human and animal characteristics and geometric designs. At a national level it has an exceptionally diverse and dynamic range of schematised human figures some of which are arranged in complex scenes. The fine execution and dynamic nature of the engravings, particularly some of the composite panels, exhibit a degree of creativity that is unusual in Australian rock engravings.
Dirk Hartog Landing Site 1616 – Cape Inscription Area	-	-	~	Historic	Cape Inscription is the site of the oldest known landings of Europeans on the WA coastline.	The Cape Inscription area displays uncommon aspects of Australia's cultural history because of the cumulative effect its association with these explorers and surveyors had on growing knowledge of the great southern continent in Europe. The association of the site with these early navigators stimulated the development of the European view of the great southern continent at a time when they began to look at the world with a modern scientific outlook.
	Commonwealth Heritage Properties					
N/A						

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11.3 Summary of Heritage Places within the NMR

Table 11-2 Heritage Places (Indigenous and Historic) within the NMR

Heritage Places	Class	Description	Conservation Values
		National Heritage Properties	
None			
		Commonwealth Heritage Propertie	es
None			

11.4 Summary of Heritage Places within the SWMR

Table 11-3 Heritage Places (Indigenous and Historic) within the SWMR

Heritage Places	Class	Description	Conservation Values		
		National Heritage Properties			
Cheetup Rock Shelter	Indigenous	Cheetup meaning "place of the birds" is the name of a spacious rock shelter located in Cape Le Grand National Park, about 55 km east of Esperance in WA. Aboriginal people associated with the place identify themselves as Nyungar/Noongar, Ngadju (shortened from Ngadjunmaia) or Mirning.	Cheetup rock shelter provides outstanding evidence for the antiquity of processing and use of cycad seeds by Aboriginal people. The seeds of the cycad are extremely toxic and can cause speedy death if eaten fresh without proper preparation to remove the toxins. The presence of <i>Macrozamia riedlei</i> seeds in a pit lined with Xanthorrhoea (grass tree) leaf bases indicates that the Aboriginal people in the Esperance region had the knowledge to remove the toxins of this important source of carbohydrate and protein at least 13,200 years ago.		

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Heritage Places	Class	Description	Conservation Values
Batavia Shipwreck Site and Survivor Camps Area 1629 – Houtman Abrolhos	Historic	The Batavia and its associated sites hold an important place in the discovery and delineation of the WA coastline. The wreck of the Batavia, and other Dutch ships like her, convinced the VOC (Dutch East India Company) of the necessity of more accurate charts of the coastline and resulted in the commissioning of Vlamingh's 1696 voyage.	Because of its relatively undisturbed nature the archaeological investigation of the wreck itself has revealed a range of objects of considerable value as well as to artefact specialists and historians.
HMAS Sydney II and HSK Kormoran Shipwreck Sites Historic The naval battle fought between the Australian warship HMAS Sydney II and the German commerce raider HSK Kormoran off the WA coas during World War II was a defining event in Australia's cultural history. HMAS Sydney II was Australia's most famous warship of the time and battle has forever linked the stories of these warships to each other. The loss of HMAS Sydney along with its entire crew of 645 following the bat with HSK Kormoran, remains as Australia's wors		warship HMAS Sydney II and the German commerce raider HSK Kormoran off the WA coast during World War II was a defining event in Australia's cultural history. HMAS Sydney II was Australia's most famous warship of the time and this	The shipwreck sites of HMAS Sydney II and HSK Kormoran have outstanding heritage value to the nation because of their importance in a defining event in Australia's cultural history and for their part in development of the process of the defence of Australia.
		Commonwealth Heritage Propertie	es
Cliff Point Historic Sites	Historic	Cliff Head is a limestone bluff on the east coast of Garden Island. Evidence of occupation has been reported from the beach just north of the head, the immediate hinterland, the ridge above and on the south face of the ridge.	The Cliff Point Historic Site, individually significant within the area of Garden Island is important as the first site inhabited by Governor Stirling's party in 1829 when founding the colony of WA, and as WA's first official non-convict settlement. The site was occupied in the first instance by Captain Charles Fremantle before the arrival of Captain Stirling. The party occupied the site for two months before a move was made to the Swan River settlement on the mainland.
HMAS Sydney II and HSK Kormoran Shipwreck Sites	Historic	As above	As above
J Gun Battery	Historic	J Battery comprised two 155 mm long range guns, the other similar battery being at Cape Peron on the mainland at the entrance to Cockburn Sound. Located in the dune systems at the north western	J Gun Battery (1942) is individually significant within the area of Garden Island (Register No. 019544) and is historically important as the first gun battery constructed on Garden Island and as one of two long range gun batteries which played a

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Heritage Places	Class	Description	Conservation Values
		corner of Garden Island elements of the J Battery complex are now covered in part by sand.	strategic role in the coastal defences of Cockburn Sound and Fremantle following the entry of Japan into the Second World War (1939-45).

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11.5 Fisheries - Commercial

11.5.1 Commonwealth and State Fisheries

The diverse range of habitats and species offshore WA has allowed for various fisheries to develop and operate throughout the region.

The Australian Fisheries Management Authority (AFMA) manages fisheries on behalf of the Commonwealth Government and is bound by objectives under the Commonwealth *Fisheries Management Act 1991*.

WA State commercial fisheries are managed by the WA Department of Primary Industries and Regional Development (WA DPIRD) under the WA *Fish Resources Management Act 1994* (FRMA), Fisheries Resources Management Regulations 1995, relevant gazetted notices and licence conditions, and applicable Fishery Management Plans.

Commonwealth and State managed fisheries that operate within the NWMR and in areas beyond this region are summarised in the **Table 11-4**.

Table 11-4 Commonwealth and State managed fisheries

	Wo	odside Are	Activity							
Fishery	Browse	S/SMN	NW Cape	Description						
Commonwealth M	anaged	Fisher	ies							
						efin Tuna Fishery (SBTF) covers the e fish in the Woodside activity area.	entire EEZ around Australia, out to 200 nm from the			
				Species targeted		Fishing methods	Fishing depth			
				Southern bluefin tuna (Thunnus maccoyii)		Longline and purse seine fishing.	Southern bluefin tuna is a pelagic species which can be found to depths of 500 m (AFMA, 2021a)			
				Fishing effort	Most of the Australian fishing effort is by purse-seine vessels in the Great Australian Bight and waters off South Australia during summer months, and by longline off the New South Wales coastline during winter months (Patterson <i>et al.</i> , 2020). SBTF is a fishery that is shared amongst many countries. Australia currently has a 35% share of the total global allowable catch, and while wild capture fishing in Australia to sell directly to market can occur anywhere throughout the SBTF's range, currently the vast majority of that quota is value-added through ranching (on-growing the wild captured fish for extra 5-6 months). Ranching requires significant infrastructure, a resident labour force, plus proximity to a fishery able to supply a large quantity of natural feed/sardines (40,000+ tonnes) (for example as available in Port Lincoln). North-west WA is critically important regardless of how the quota is fished because of the proximity to the single spawning ground of this global roaming species. The stock remains classified as overfished.					
				Active licences/vessels	Seven purse seine vessels, 20 longline vessels (Patterson et al., 2020).					
Western Skipjack Tuna Fishery	✓	✓	√	Management area	entire Australian E	EZ. The Western Skipjack Tuna Fishe	uwonus pelamis) fisheries (STF) encompass the ery (WSTF) extends westward from the nd around the west coast of WA to the Cape York			

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	Wo	odside Are	Activity						
Fishery	Browse	NWS/S	NW Cape	Description					
				Species targeted		Fishing methods	Fishing depth		
				Western skipjack tuna pelamis)	(Katsuwonus	Fishers use purse seine gear (about 98% of catch) and sometimes pole and line when fishing for skipjack tuna.	Western skipjack tuna is a pelagic species that can be found to depths of 260 m (AFMA, 2021b).		
					Fishing effort:	The Skipjack Tuna Fishery (STF) has not been actively fished since the 2008-2009 fishing season (Patterson <i>et al.</i> , 2020). The management arrangements for this fishery will be reviewed if active boar enter the fishery.			
				Active licences/vessels:	No active vessels	operating since 2009.			
Western Tuna and Billfish Fishery	√ √ √		√	Management area	The Western Tuna and Billfish Fishery (WTBF) extends to the Australian EEZ boundary in the Indian Ocean.				
				Species targeted		Fishing methods	Fishing depth		
				Bigeye tuna (<i>Thunnus</i> Yellowfin tuna (<i>Thunnus</i> Swordfish (<i>Xiphias gla</i> Albacore (<i>Thunnus ala</i> Striped marlin (<i>Kajikia</i>	us albacares) adius) alonga)	Fishers mainly use pelagic longline fishing gear to catch the targeted species. Minor line (including handline, troll, rod and reel) can also be used.	Species have a broad depth distribution, with tuna occurring at 150 – 300 m, striped marlin at 150 m and swordfish at up to 600 m (BRS, 2007).		
				Fishing effort:		es in Australia's EEZ and high seas of the In rated off south-west WA, with occasional act			
				Active licences/vessels:	Two pelagic longlin	ne vessels and two minor longline vessels (I	Patterson <i>et al.</i> , 2020).		
Western Deepwater Trawl Fishery			✓	Management area The Western Deepwater Trawl Fishery (WDTF) is located in deep water off WA, from the line approximating the 200 m isobath to the edge of the Australian Fishing Zone (AFZ).					

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	Wo	odside Are	Activity a						
Fishery	Browse	NWS/S	NW Cape	Description					
				Species targeted		Fishing methods	Fishing depth		
				More than 50 species, historically dominated by six commercial finfish species or species groups: Orange roughy (Hoplostethus atlanticus) Oreos (Oreosomatidae) Boarfish (Pentacerotidae) Eteline snapper (Lutjanidae: Etelinae) Apsiline snapper (Lutjanidae: Apsilinae) Sea bream (Lethrinidae)		Demersal trawl.	Water deeper than 200 m, stakeholder consultation has indicated that this may be to depths of 800 m.		
				Fishing effort:	Notably, total hours targeted ruby snap but relatively low s	ssels active in the fishery and total hours traw is trawled were relatively high for a brief peric oper and deepwater bugs (Patterson et al., 20 ince then. Effort in 2018-2019 (492 trawl hou (Patterson et al., 2020).	od during the early 2000s when fishers 020). Total fishing effort has been variable		
				Active licences/vessels:	One active vessel	in 2018-2019 (Patterson et al., 2020).			
North-west Slope Trawl Fishery	√	√		Management area		ope Trawl Fishery (NWSTF) extends, from 1 e AFZ (200 nm from the coastline, which is t			
				Species targeted Fishing methods Fishir		Fishing depth			
				Australian scampi (<i>Metanephrops</i> australiensis) and smaller quantities of velvet and Boschma's scampi (<i>M. velutinus</i> and <i>M. boschmai</i>) Mixed snappers have historically been an important component of the catch.		Demersal trawl.	Typically at depths of 350 to 600 m (Patterson <i>et al.</i> , 2017), however stakeholder consultation has indicated that this may be to depths of 800 m.		

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	Wo	odside Are	Activity a						
Fishery	Browse	NWS/S	NW Cape	Description					
				The NWSTF commenced in 1985 and the number of active vessels peaked at 21 in the 1986-1987 seasor and declined through the 1990s before increasing to 10 vessels in 2000-2001 and 2002-2002 seasons. Four vessels operated in the 2017-2018 and 2018-2019 seasons (Patterson <i>et. al.</i> 2020). Fishing for scampi occurs over soft, muddy sediments or sandy habitats, using demersal trawl gear on the continental slope (Patterson <i>et al.</i> , 2017).					
				Active Four vessels (Patterson et. al., 2020).					
State Managed Fish	eries								
Pilbara Fish Trawl (Interim) Managed Fishery		√		Management area	governed by Scheotrawl units are allocareas) (Newman e	dule 5 (prohibited to trawling). In addition to	Zone 2 (which comprises six management		
				Species targeted		Fishing methods	Fishing depth		
					Fishery (PFTIMF) scalefish species. The five main dem landed by the fishe region are blue-sp snapper, rosy thre emperor and goldt	The Pilbara Fish Trawl Fishery (PFTIMF) target scalefish species. The five main demersa landed by the fisheries region are blue-spotted snapper, rosy threadfin emperor and goldband (Newman et al., 2020a)	I scalefish species in the Pilbara d emperor, crimson bream, red snapper in 2018	Demersal trawl.	The Pilbara Fish Trawl Fishery lands the largest component of the catch and operates in waters between 50 and 200 m water depth (Allen <i>et al.</i> , 2014, Newman et al. 2015). Stakeholders have advised that trawling can occur in depths of up to approximately 800 m.
				Fishing effort:	Based on State of over the past repor		PIRD, catch trends are seen to be increasing		

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	Wo	odside Are	Activity a	Description					
Fishery	Browse	NWS/S	NW Cape						
					Pilbara Trawl (Interim) Managed Fishery caught 1996 t in 2018-19, 1780 t in 2017-18, 1529 t in 2016-17, 1172 t in 2015-16, 1105 t in 2014-15. Two Pilbara Trawl (Interim) Managed Fishery vessels in 2017 (Newman <i>et al.</i> , 2020a). Active vessels data are confidential as there were fewer than three vessels in the Pilbara Fish Trawl Interim Managed Fishery (Newman <i>et al.</i> , 2020a).				
				Active licences/vessels:					
Pilbara Trap Managed Fishery		✓	✓	Management area	The Pilbara Trap Fishery covers the area from Exmouth northwards and eastwards to the 120° line of longitude, and offshore as far as the 200 m isobath. Like the trawl fishery, the trap fishery is also managed using input controls in the form of individual transferable effort allocations monitored with a satellite-based vessel management system. The fishery includes six licences allocated to three vessels, operating principally from Onslow.				
				Species targeted		Fishing methods	Fishing depths		
				made up of around 45- species. The four main species fisheries in the Pilbara	as red emperor and goldband snapper. Species landed by the Pilbara region are blue- br, red emperor, goldband				
				Fishing effort Based on State of the Fisheries annual reports provided by DPIRD, catch trends are seen to be increasing over the past reporting years: Pilbara Trap Managed Fishery caught 563 t in 2018-19, 573 t in 2017-18, 495 t in 2016-17, 510 t in 2015-16, 268 t in 2014-15. In 2018, the total catch for the Pilbara Trap Managed Fishery was 563 t, making up 21% of the total catch by the Pilbara Demersal Scale Fishery (Newman et al., 2019).					

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	Wo	odside Are	Activity				
Fishery	Browse	NWS/S	NW Cape	Description			
				Active licences/vessels In the 2019 season, there were six licences in the Pilbara Trap Managed Fishery, (Newman <i>et al.</i> , 2020a). Active vessels data are confidential as there were fewer than three vessels in the Pilbara Trap Managed Fishery (Newman <i>et al.</i> , 2019).			
Pilbara Line Managed Fishery		√	✓	Management area The Pilbara Line Managed Fishery boat licences are permitted to operate anywhere within "Pilbara waters", bounded by a line commencing at the intersection of 21°56'S latitude and the high water mark on the western side of the North-west Cape on the mainland of WA; west along the parallel to the intersection of 21°56'S latitude and the boundary of the AFZ and north to longitude 120°E.			
				Species targeted		Fishing method	Fishing depths
				The Pilbara Line Managed Fishery catch is made up around 45-50 different fish species. The Pilbara Line Managed Fishery targets similar demersal species to the Pilbara Trap and Trawl fisheries, as well as some deeper offshore species such as ruby snapper and eightbar grouper The Pilbara Line Managed Fishery operates on an exemption basis that enables licence holders to fish for any nominated five-month block during the year. Based on State of the Fisheries annual reports provided by DPIRD, catch trends are seen to be increasin over the past reporting years: Pilbara Line Managed Fishery caught 93 t in 2018-19, 143 t in 2017-18, 126 t in 2016-17, 97 t in 2015-16 40 t in 2014-15. The total catch in 2018 for the Pilbara Line Managed Fishery was 93 t, making up 3% of the total catch by the Pilbara Demersal Scalefish Fishery (Newman et al., 2019).			

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	Wo	odside Are	Activity a						
Fishery	Browse	NWS/S	NW Cape	Description					
				Active In the 2018 season there are nine individual licences in the Pilbara Line Fishery, held by seven operators. Active vessels data is confidential as there were fewer than three vessels in the Pilbara Line Fishery (Newman et al., 2018).					
Mackerel Managed Fishery	✓	√	√	Management area		shery extends from Geraldton to the Northern perley (Area 1), Pilbara (Area 2), and Gasco			
				Species targeted		Fishing methods	Fishing depth		
				Spanish mackerel (Scomberomorus commerson) Grey mackerel (S. semifasciatus) Other species from the genus Scomberomorus		Near-surface trawling gear. Jig fishing.	Previous engagement with WAFIC suggests that the depth of fisheries may extend to 70 m.		
				Fishing effort: Most of the catch is taken from waters off the Kimberley coasts (Lewis and Breflecting the tropical distribution of mackerel species (Molony et al., 2015). Note around the coastal reefs of the Dampier Archipelago and Port Hedland area, appearance of mackerel in shallower coastal waters most likely associated we development before spawning (Mackie et al., 2003). Based on State of the Fisheries annual reports provided by DPIRD, catch tree 213 t in 2018-19 (the lowest on record (Lewis et al., 2020), 283 t in 2017-18, 2015-16, 322 t in 2014-15.		et al., 2015). Most fishing activity occurs Hedland area, with the seasonal v associated with feeding and gonad IRD, catch trends are as follows:			
				Active licences/vessels:		d in 2018, with approximately 35-40 people from May-November (Lewis et al., 2020).	directly employed in the Mackerel Managed		
Marine Aquarium Managed Fishery	1	✓	✓	Management area	The Marine Aquarium Managed Fishery is able to operate in all State waters. The fishery is typically mor active in waters south of Broome and higher levels of effort around the Capes region, Perth, Geraldton, Exmouth, Dampier and Broome (Newman et al., 2020b).				
				Species targeted		Fishing methods	Fishing depth		

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	Wo	odside Are	Activity a						
Fishery	Browse	NWS/S	NW Cape	Description					
				Finfish, hard coral, soft clams, syngnathids (se pipefish), other invertel molluscs, crustaceans, etc.), algae, seagrasse	eahorses and brates (including , echinoderms	The fishery is diver-based, which typically restricts effort to safe diving depths (less than 30 m).	Less than 30 m, as advised by WAFIC.		
				Fishing effort:		Total catch for the Marine Aquarium Managed Fishery in 2018 was 156,188 fishes, 32.025 t of coral, live rock and living sand and 176.02 L of marine plants and live feed.			
				Active licences/vessels:	Eleven licences we	ere active in 2019 (Newman et al., 2020b).			
Beche-de-mer Fishery	✓	√	√	Management area	Fishing occurs in the Ministerial Exempt	he northern half of WA from Exmouth Gulf to ions.	the NT border and is managed under		
				Species targeted	•	Fishing methods	Fishing depth		
				The sea cucumber fishery targets two main species: sandfish (Holothuria scabra) and redfish (Actinopyga echinites).		Diving	The targeted species typically inhabit nearshore in shallow depths.		
				Fishing effort		the Fisheries annual reports provided by DPI han and Santoro, 2020), 135t in 2017, 93t in			
				Active licences/vessels	Six active licences three vessels.	in 2019 (Hart et al., 2019). Active vessels da	ta is confidential as there were fewer than		
Onslow Prawn Managed Fishery		✓		Management area The Onslow Prawn Managed Fishery encompasses a portion of the continental shelf off the Pilbara.			f the continental shelf off the Pilbara.		
managed i isnery				Species targeted		Fishing methods	Fishing depth		

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	Wo	odside Are	Activity							
Fishery	Browse	NWS/S	NW Cape	Description						
				The fishery targets: Western king prawns (esculentus) Brown tiger prawns (F esculentus) Blue endeavour prawn endeavouri	Penaeus	Low opening, otter prawn trawl systems.	Prawn trawling takes place in water depths of approximately 30 metres and less (licence holder feedback). Fishery and or fishing activity overlaps the Beadon Creek dredging scope (Sporer et al., 2015).			
				Fishing effort: The total landings for the Onslow Prawn Managed Fishery in 2018 v catch range (Kangas <i>et al.</i> , 2020a).		8 were less than 60 t below the target				
				Active One vessel (Kangas et al., 2020a).						
Pearl Oyster Managed Fishery	√	√	√	Management area		coastal waters with the pearl oyster managemouth to Kununurra and the seaward bound				
				Species targeted		Fishing methods	Fishing depth			
				Pearl oysters (Pinctad	Fishing effort is mostly focussed in shallow coastal waters (10-15 m depth), with a maximum depth of 35 m (Lulofs et al. 2002).					
				Fishing effort:	In 2018, catch was taken from Zones 2 and 3 with no fishing in Zone 1. The number of pea caught for 2018-19 was 614,002. Total effort was 15,637 dive hours, this was an increase f of 12,845 hours. No fishing occurred in Zone 1 in 2017 and 2018 (Gaughan and Santoro, 2					
				Active licences/vessels: 15,637 diver hours (Hart et al., 2020a).						
		√	√	Management area		Managed Fishery comprises WA waters off thand west of 120° 00′ east longitude. Areas of				

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	Wo	odside Are	Activity a							
Fishery	Browse	NWS/S	NW Cape	Description						
Pilbara Crab Managed Fishery				nearshore are currently closed as per Schedule 2 of the Draft Management Plan for the Pilbara Crab Managed Fishery.						
				Species targeted		Fishing methods	Fishing depth			
				Crabs of the Family Po		Traps.	Up to 50 m deep.			
				Fishing effort:	The capacity of the fishery is 600 traps.					
				Active licences/vessels:	No information ava	ailable at this time.				
South-west Coast Salmon Managed	✓	√	√	Management area		oast Salmon Managed Fishery operates on vall WA waters north of Cape Beaufort except				
Fishery				Species targeted		Fishing methods	Fishing depth			
				Western Australian salmon (<i>Arripis</i> truttaceus)		Beach seine nets.	Information not available however, species generally found in shallow waters (up to 30 m).			
Cape Beaufort (WA/Northern Territory border The 2018 commercial catch was 191 t, with				A/Northern Territory border), as advised by V cial catch was 191 t, with 72% taken by the S	of the Perth metropolitan area, despite the managed fishery boundary extending to thern Territory border), as advised by WAFIC. atch was 191 t, with 72% taken by the South West Coast Salmon Managed uth Coast Salmon Managed Fishery and 3% by other fisheries (Duffy and Blay,					
				Active licences/vessels:	Six licences.					
	✓	√	√	Management area		ell Managed Fishery (SSMF) encompasses t eas adjacent to the population centres such a				

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	Wo	odside Are	Activity				
Fishery	Browse	S/SMN	NW Cape	Description			
Specimen Shell Managed Fishery				Geraldton, Perth, Mandurah, the Capes area and Albany (Hart <i>et al.</i> , 2020b). There are a numb closed areas where the SSMF is not permitted to operate. These include various marine parks a reserves, such as Ningaloo Marine Park.			
				Species targeted		Fishing methods	Fishing depth
				The Specimen Shell Managed Fishery targets the collection of specimen shells for display, collection, cataloguing and sale.		Collection is predominantly by hand when diving to wading in shallow, coastal waters, though in deeper water collection may be conducted by remotely operated vehicles (limited to one per licence).	For collection by hand, (diver-based) this typically restricts effort to safe diving depths (less than 30 m). ROV collection could enable depths up to 300 m (Hart et al., 2017). In the past there has been one licence holder in the Specimen Shell Managed Fishery who has trialled ROV means of shell collection, WAFIC have provided advice that this fishery is no longer active.
				Fishing effort:	Information not available.		
				Active licences/vessels:		e 31 licences with only two divers allowed in t mber of people employed regularly in the fish	
West Australian Abalone Fishery	√	✓	√	Management area The Western Australian Abalone Fishery includes all coand NT border. The fishery is concentrated on the south		ralian Abalone Fishery includes all coastal wane fishery is concentrated on the south coast	aters from the WA and SA border to the WA and the west coast.
				Species targeted		Fishing methods	Fishing depth
				Greenlip abalone (<i>Haliotis laevigata</i>) Brownlip abalone (<i>Haliotis conicopora</i>) Roe's abalone (<i>Haliotis roei</i>)		Divers.	Distribution to 5 m depth for Roe's abalone and 40 m depth for greenlip / brownlip abalone (DOF, 2011).

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	Wo	odside Are	Activity a								
Fishery	Browse	NWS/S	NW Cape	Description							
				Fishing effort: In 2018, the total commercial catch was 48 t, 1 t less than the catch in each of the last two seasons. No commercial fishing for abalone north of Moore River (Zone 8 of the managed fishery) has occurred since 2011–2012 (Strain <i>et al.</i> , 2018).							
				Active 26 vessels active in Roe's abalone fishery (WAFIC ⁵).							
West Coast Deep Sea Crustacean	√	√	✓	Management area The West Coast Deep Sea Crustacean Managed Fishery extends north from Cape Leeuw border in water depths greater than 150 m within the AFZ.							
Managed Fishery				Species targeted		Fishing methods	Fishing depth				
				The fishery targets deepwater crustaceans. Catches were dominated by crystal crabs of which 99% of their Total Allowable Catch (TAC) was landed (How and Orme, 2020a). Crystal (snow) crab (<i>Chaceon albus</i>) Giant (king) crab (<i>Pseudocarcinus gigas</i>) Champagne (spiny) crabs (<i>Hypothalassia acerba</i>)							
				Fishing effort: The total landings in 2018 was 168. t. Two vessels operated in the fishery in 2017, using baited pots operated in a longline formation in the shelf edge waters, mostly in depths between 500 and 800 m (How and Orme, 2020a). Fishing effort was concentrated between Fremantle and Carnarvon.							
				Active licences/vessels: There were four active vessels in 2018 (How and Orme, 2020a).							

⁵ https://www.wafic.org.au/fishery/roes-abalone-fishery/

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⁶ https://www.wafic.org.au/fishery/west-coast-deep-sea-crustacean-fishery/

	Woo	odside Are	Activity							
Fishery	Browse	NWS/S	NW Cape	Description						
Abrolhos Islands and Mid-West Trawl			✓	Management area	Management area The Abrolhos Islands and Mid-West Trawl Fishery (AIMWTMF) operates around the Abrolhos Islands within the SWMR.					
Fishery				Species targeted		Fishing methods	Fishing depth			
				Saucer scallops (Ylistrum balloti, formerly Amusium balloti)		Trawl.	Information not available, however, the species occurs at depth of around 30-60 m and therefore fishing effort would likely be at these depths (Himmelman <i>et al.</i> , 2009).			
				Fishing effort:	2015, the annual p	is in the AIMWTMF were 31.0 t meat weight (154.8 t whole weight). Between 201 e-season surveys showed very low recruitment (1-year old), as a result of the 20 atwave and subsequent poor pawning stock (Kangas <i>et al.</i> , 2020b). The fishery with 1 and 2016.				
				Active Information about licences or vessels is not available but the Department of Primary Industry and Reg Development reported 774 t of catch from this fishery in the 2019 annual report (DPIRD, 2019).						
Broome Prawn Managed Fishery	√			Management area The Broome Prawn Managed Fishery (BPMF) operates off Broome and forms part of the North OPrawn Fishery.						
				Species targeted		Fishing methods	Fishing depth			
				Western king prawn (F latisulcatus) Coral prawn	Penaeus	Trawl.	Trawling is generally in waters between 30 and 60 m deep, however can occur down to 100 m (DOEH, 2004).			
				Fishing effort:	BPMF recorded extremely low fishing effort in 2018. Only two vessels undertook trial fishing to investigate whether the catch rates were sufficient for commercial fishing. This resulted in negligible landings of Western king prawn (Kangas <i>et al.</i> , 2020a).					

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	Woodside Activity Area									
Fishery	Browse	NWS/S	NW Cape	Description						
				Active licences/vessels:	Two vessels condu	ucting fishing trial operated in 2018 (Kangas	et al., 2020a).			
Exmouth Gulf Prawn Managed Fishery			✓	Management area	The estimated employment in the fishery in 2017 was 18 people including skippers and other crew (Kangas <i>et al.</i> , 2018). The fishery occupies a total area of 4000 km², with only half of this area being trawled (Fletcher and Santoro, 2015).					
				Species targeted		Fishing methods	Fishing depth			
				Western king prawn (F latisulcatus) Brown tiger prawn (Per Blue endeavour prawn endeavouri) Banana prawn (Penae	Information not available.					
				Fishing effort:		of prawns in 2018 were 880 t (Kangas <i>et al.</i> , ours resulted in a catch of 822 t.	2020a). In the 2016 season, a fishing effort			
				Active licences/vessels: The precise number of vessels is unreported. Eighteen people were said to be employed in this fishery in 2018 (Kangas <i>et al.</i> , 2019); however, in 2013 it was reported that 18 skippers as well as other crew and support staff were employed (WAFIC ⁷).						
Gascoyne Demersal Scalefish Managed Fishery			✓	Management area	The Gascoyne Demersal Scalefish Fishery (GDSF) is located between the southern Ningaloo Coast to south of Shark Bay (23°07.30'S to 26°.30'S) with a closure area at Point Maud to Tantabiddi (21°56.30'S) (WAFIC ⁸).					
				Species targeted Fishing methods Fishing depth						

⁷ https://www.wafic.org.au/fishery/exmouth-gulf-prawn-fishery/

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⁸ https://www.wafic.org.au/fishery/gascoyne-demersal-scalefish-fishery/

	Woo	odside Are	Activity									
Fishery	Browse	NWS/S	NW Cape	Description								
				Pink snapper (<i>Chrysop</i> Goldband snapper (<i>Primultidens</i>) Red emperor (<i>Lutjanus</i> Cods (<i>Gadus morhua</i>) Emperors (<i>Lethrinus m</i>	istipomoides s sebae)	Mechanised handlines.	Information not available.					
				Fishing effort:	The GDSF reporte	d a total commercial catch of 210 t in 2017-1	rcial catch of 210 t in 2017-18.					
				Active licences/vessels:	In 2018, 13 vessel Santoro, 2018).	s fished during the season, in the 2017 season	on there were 16 vessels (Gaughan and					
Kimberley Developing Mud	✓			Management area		veloping Mud Crab Fishery is one of two sma gion between Cambridge Gulf and Broome (0						
Crab Fishery				Species targeted		Fishing methods	Fishing depth					
				Brown mud crab (Scyll Green mud crab (Scyll		Trap.	Information not available.					
				Fishing effort:	rate of 0.66 kg/trap	represents all commercially caught mud crab olift was recorded for 2018, which is a 28% do reshold (Johnston <i>et al.</i> , 2020).						
				Active licences/vessels: There are currently three licences issued to commercial operators (600 trap limit), and the issued to Indigenous groups (total of 210 traps currently allocated of a maximum 600 traple.)								
Nickol Bay Prawn		awn Managed Fishery operates in nearshore	and offshore waters of the Pilbara region									
				Species targeted		Fishing methods	Fishing depth					

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	Wo	odside Are	Activity a					
Fishery	Browse	S/SMN	NW Cape	Description				
				Banana prawn (<i>Penaeus merguiensis</i>) Western king prawn (<i>Penaeus latisulcatus</i>) Brown tiger prawn (<i>Penaeus esculentus</i>) Blue endeavour prawn (<i>Metapenaeus endeavouri</i>)		Trawl.	Information not available.	
				Peninsula, includir the 2018 season v		wiling has been reported to occur at several locations along the Pilbara coast to the east of the Burrup ninsula, including within the waters of Nickol Bay (Fletcher and Santoro, 2015). The total landings for 2018 season were 81 t. Fishing effort was less than half at 138 days, compared to 281 boat days in 17 (Kangas <i>et al.</i> , 2020a).		
				Active licences/vessels:	The precise number et al., 2018).	er of vessels is unreported, though low effort	produced a catch of 17 t in 2016 (Kangas	
Northern Demersal Scalefish Managed Fishery	✓			Management area	(Newman <i>et al.</i> , 20 isobath. Area 2 per Zone A is an insho	led into two fishing areas: an inshore sector (.018). Area 1 permits line fishing only, between the fish handline, dropline and fish trap fishing rate area, Zone B comprises the area with most lope area representing waters deeper than 2	n the high water mark and the 30 m methods and is further divided into zones. st historical fishing activity, and Zone C is	
				Species targeted		Fishing methods	Fishing depth	
				Goldband snapper (<i>Pristipomoides multidens</i>) Blue-spotted emperor (<i>Lethrinus punctulantus</i>) Red emperor (<i>Lutjanus sebae</i>) Rankin cod (<i>Epinephelus multinotatus</i>)		Line fishing, handline, dropline and fish trap fishing.	Information not available.	

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	Wo	odside Are	Activity a					
Fishery	Browse	NWS/S	NW Cape	Description				
				Fishing effort:	of 1106 t in 2018.	18, the fishery reported a total catch of 1297 t. Most of the catch is landed from Zone B, with a catch 06 t in 2018. The level of catch in Zone B is the highest reported since zoning was implemented in (Newman <i>et al.</i> , 2019).		
				Active licences/vessels:				
Octopus Interim Management				Management area The developing Oc		Octopus Fishery operates from Kalbarri Cliffs in the north to Esperance in the south.		
Fishery				Species targeted	•	Fishing methods	Fishing depth	
				Octopus sp. cf. tetricus	S	Passive shelter pots and active traps.	In inshore waters to a depth of 70 m (DPIRD, 2018).	
				Fishing effort:		9, the total commercial octopus catch was 314 t, which was 22% higher than the 2017 catch of 257 016, about 200 vessels reported a total catch of 252 t (Hart <i>et al.</i> , 2020c).		
				Active licences/vessels:		ish within the octopus specific fisheries, and ery catch octopus as bycatch (Gaughan and		
Shark Bay Beach Seine and Mesh Net				Management area	The Shark Bay Be	ach Seine and Mesh Net Managed Fishery o	operates from Denham.	
Managed Fishery				Species targeted		Fishing methods	Fishing depth	
				Whiting (yellowfin Silla and goldenline S. anal. Sea mullet (Mugil cept Tailor (Pomatomus sal. Western yellowfin brea australis)	is) halus) ltatrix)	Beach seine and mesh net.	Information not available.	

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	Woo	odside Are	Activity a				
Fishery	Browse	S/SMN	NW Cape	Description			
				Fishing effort:		atch was 176 t (Gaughan and Santoro, 202 ne seven fishery licences in operation (WAF	20). The fishery currently employs about 14 FIC ⁹).
				Active Six vessels operated employing around 12 fishers (Gaughan and Santoro, 2018). licences/vessels:		and Santoro, 2018).	
Shark Bay Crab Managed Fishery				Management area The Shark Bay Crab Managed Fishery operates within the NWMR.		VMR.	
Manageu i isnery				Species targeted		Fishing methods	Fishing depth
				Blue swimmer crab (F	Portunus armatus)	Trap and trawl.	Information not available.
				Fishing effort:	facilitate stock rebu	g for blue swimmer crabs in Shark Bay was uilding. The stock is still in a recovery phase mmercial catch of 518 t in the 2017/18 seas during 2017/18 (Chandrapavan <i>et al.</i> , 2017	e; however, the fishery has resumed and son. The average commercial trap catch rate
				Active The precise number of vessels in the Shark Bay Blue Swimmer Crab Fishery is unreported. There are five crab trap permits. These permits are consolidated onto three active vessels (WAFIC¹0).			
Shark Bay Prawn and Scallop				Management area The Shark Bay Prawn Managed Fishery is the highest producing WA fishery for prawns.		ing WA fishery for prawns.	
Managed Fishery				Species targeted		Fishing methods	Fishing depth
				Western king prawn (natisulcatus) Brown tiger prawn (Pe		Low-opening otter trawls.	Information not available.

⁹ https://www.wafic.org.au/fishery/inner-shark-bay-scalefish-fishery/

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¹⁰ https://www.wafic.org.au/fishery/shark-bay-prawn-and-scallop-managed-fisheries/

	Wo	odside Are	Activity a				
Fishery	Browse	NWS/S	NW Cape	Description			
				Endeavour prawns (Metapenaeus endeavouri) Coral prawns (Metapenaeopsis sp.) Saucer scallop (Amusium balloti)			
				Fishing effort:		allop Managed Fishery is currently in a recovitock abundance (Fletcher and Santoro, 201	
				Active licences/vessels: The precise number of vessels in the Shark Bay Prawn Managed Fishery is unreported; however, about 100 people are employed in this fishery (Gaughan and Santoro, 2018). About 20 skippers and crew are employed in scallop fishing in the Shark Bay and South Coast fisheries across 18 vessels in 2015 (Sporer et al., 2015).			
South Coast Crustacean Managed Fishery	-	-	-	Management area	Rock Lobster Mana	Crustacean Managed Fishery comprises four aged Fishery, the Esperance Rock Lobster Nation Fishery and the South Coast Deep-Sea	Managed Fishery, the Southern Rock
				Species targeted		Fishing methods	Fishing depth
				Southern rock lobster (<i>Jasus edwardsii</i>) Western rock lobster (<i>Panulirus cygnus</i>) Giant crab (<i>Pseudocarcinus gigas</i>) Crystal crab (<i>Chaceon albus</i>) Champagne crab (<i>Hypothalassia acerba</i>)		Information not available.	
				Fishing effort: The South Coast Crustacean Managed Fishery reported a total catch of 101.2 t in 2018 season and the value of the fishery for 2017/2018 was about \$5.9 million (Howe and Orme, 2020b).			
				Active licences/vessels:	The number of ves	sels is unknown; however, a total of 1977 po	ots are licensed to be used.
	-	-	-	Management area		e in coastal waters between Cape Leeuwin a any, Bremer Bay and Esperance (Norriss ar	

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	Wo	odside Are	Activity a					
Fishery	Browse	NWS/S	NW Cape	Description				
South Coast Purse Seine Managed				Species targeted		Fishing methods	Fishing depth	
Fishery				Small pelagic finfish such as pilchards and yellowtail scad using purse seine nets from vessels. Sandy sprat (<i>Hyperlophus vittatus</i>) Blue sprat (<i>Spratelloides robustus</i>)		Purse seine.	Information not available.	
				Fishing effort:	In the 2017/18 season the total catch effort was 2,168 t (Norriss and Blazeski, 2020).			
				Active licences/vessels:	Nine active vessels	s in 2017/18 (Norriss and Blazeski, 2020).		
South-west Trawl Managed Fishery	-	-	-	Management area		awl Managed Fishery is a multi-species fishe unds at Fremantle and north of Geographe B		
				Species targeted		Fishing methods	Fishing depth	
				Scallops (Ylistrum balla Amusium balloti) and a products Western king prawn (F latisulcatus) In years of low scallop may use other trawl ge species.	Penaeus catches licencees	Trawl.	Information not available.	
				Fishing effort: Effort in the fishery is highly variable and typically fluctuates in response to recruitmen scallops and prawns. The fishery was not active in 2015 or 2016 (Fairclough and Walt		response to recruitment variability in saucer 6 (Fairclough and Walters, 2018).		
				Active licences/vessels:	Only one boat fishe	ed in 2018 for a total of 5 boat days for minin	nal catch (Fairclough and Walters, 2018).	

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	Wo	odside Are	Activity a				
Fishery	Browse	NWS/S	NW Cape	Description			
The South Coast Salmon Managed	-	-	-	Management area		Salmon Managed Fishery is one of two fishe ore and estuarine finfish.	eries operating in the South Coast Bioregion
Fishery				Species targeted		Fishing methods	Fishing depth
				Western Australian sal truttaceus) Southern school whitin bassensis) Australian herring (Arr King George whiting (Spunctatus) Sea mullet (Mugil cepl Estuary cobbler (Cnide macrocephalus) Black bream (Acantho	ng (Sillago ripis georgianus) Sillaginodes halus) oglanis	Beach seines, haul nets and gill nets.	Information not available.
				Fishing effort:	The total catch for	2018 was 243 t (Duffy and Blay, 2020b).	
				Active licences/vessels:	Number of vessels 2020b).	s is unknown; however, 12 commercial fishe	ers were employed in 2018 (Duffy and Blay,
West Coast Beach Bait Managed	-	-	-	Management area Primarily active in the Bunbury areas in the SWMR.			
Fishery				Species targeted		Fishing methods	Fishing depth
				Whitebait		Beach-based haul nets.	Information not available.
				Fishing effort:	In recent years the t (Duffy and Blay, 2		rea. Total catch of whitebait in 2015 was 40.2

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	Wo	odside Are	Activity a					
Fishery	Browse	NWS/S	NW Cape	Description				
				Active licences/vessels:	Number of vessels	s is unknown; however, only one license wa	as issued (DPIRD, 2019).	
West Coast Demersal Gillnet and Demersal Longline (Interim)	-	-	-	Management area	of the Temperate I 26° and 33° S, and			
Managed Fishery				Species targeted		Fishing methods	Fishing depth	
				Gummy shark (<i>Muste</i> Dusky shark (<i>Carchar</i> Whiskery shark (<i>Furg</i> Sandbar shark (<i>C. plu</i>	rhinus obscurus) aleus macki)	Gillnet and longline.	Information not available.	
				Fishing effort:	Catch estimated annual value of the fishery was \$0.2 million for 2017 to 2018 (Braccini and Blay, 2020).			
				Active licences/vessels:		re unknown; however, 17 interim managed n 18 and 21 skippers and crew were emplo	fishery permits were held in 2019 (DPIRD, yed between 2016 and 2017.	
West Coast Demersal Scalefish Fishery	-	-	-	Management area These fisheries include the West Coast Demersal Scalefish (Interim) Managed Fishery (51 boats West Coast Demersal Gillnet and Demersal Longline (Interim) Managed Fishery and the temperal Demersal Gillnet and Demersal Longline Fisheries. The West Coast Demersal Scalefish Manage is the main commercial fishery that targets demersal species in the West Coast Bioregion. It encountered the waters from just south of Shark Bay down to just east of Augusta and extends seaward to the boundary. The fishery is divided into four inshore management areas and one offshore management.) Managed Fishery and the temperate t Coast Demersal Scalefish Managed Fishery in the West Coast Bioregion. It encompasses Augusta and extends seaward to the 200 nm		
				Species targeted		Fishing methods	Fishing depth	
				Baldchin groper (Choo Dhufish (Glaucosoma Pink snapper (Pagrus	hebraicum)	Lines.	Inshore species – 20 to 250 m water depth.	

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	Wo	odside Are	Activity				
Fishery	Browse	NWS/S	NW Cape	Description			
							Offshore species – more than 250 m water depth.
				Fishing effort:	In 2016, the West	Coast Demersal Scalefish (interim) Manage	d Fishery reported a total catch of 256 t.
				Active licences/vessels:		er of vessels in the West Coast Demersal Sonterim managed fishery permit holders.	calefish Fisheries is unreported; however, it
West Coast Purse Seine Managed	-	-	-	Management area	Located in waters t	from Cape Bouvard extending to Lancelin.	
Fishery				Species targeted		Fishing methods	Fishing depth
				Scaly mackerel (Sardin Pilchards (Sardinops s Australian anchovy (Er	,		Information not available.
				Fishing effort:	Information not ava	ailable	•
				Active licences/vessels:	Seven vessels in 2	2017 (Gaughan and Santoro, 2018).	
West Coast Rock Lobster Managed Fishery			✓	Management area The West Coast Rock Lobster Fishery operates from Shark Bay south to Cape Leeuwin. The fishery is managed using zones, seasons and total allowable catch. The recreational fishery targets the western rock lobsters using baited pots and by diving between North-west Cape and Augusta.			

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	Woo	odside Are	Activity				
Fishery	Browse	NWS/S	NW Cape	Description			
				Species targeted		Fishing methods	Fishing depth
				Western rock lobster (F	Panulirus cygnus)	Baited pots.	Less than 20 m.
						els reported a total catch of 6400 t in 2017 (de total catch of 6,086 t (Gaughan and Santoro	
				Active 234 vessels open licences/vessels:		ted in 2017 and 233 vessels operated in 201	8 (Gaughan and Santoro, 2018).

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11.5.2 Aquaculture

Aquaculture operations in the northwest are typically restricted to inland and shallow coastal waters.

West Coast Bioregion

Aquaculture activities in the West Coast bioregion, defined by the Department of Primary Industries and Regional Development (DPIRD) (as the government body responsible management of primary industries in WA) are focused on blue mussels and edible oysters (mainly in Cockburn Sound) and marine algae for production of beta-carotene, used as a food additive and as a nutritional supplement. Offshore marine finfish production is also being developed, initially focusing on yellowtail kingfish.

There is also an emerging black pearl industry (from the *Pinctada margaritifera* oyster) in the Abrolhos Islands. As well as expansion in the production of Akoya pearls (small white pearls from *Pinctada fucata martensi*), *Pinctada albina* (small, yellow pearls) and *Pteria penguin*, which are often used to produce half (mabe) pearls in pink and bluish shades.

Aquaculture licences for producing coral and live rock (pieces of old coral reefs colonised by marine life, such as beneficial bacteria, for aquariums) at the Abrolhos Islands have also been issued and other applications are being assessed.

Gascoyne Coast Bioregion

In the Gascoyne Coast bioregion, aquaculture activities are focused on the blacklip oyster (*Pinctada margaritifera*) and Akoya pearl oyster (*Pinctada imbricata*) (Gaughan and Santoro, 2020). Several hatcheries supply *P. margaritifera* juveniles to the region's developing black pearl farms.

Other aquaculture developments in the Gascoyne Coast bioregion include emerging producers of coral and live rock species for aquariums.

North Coast Bioregion

Aquaculture activities in the North Coast bioregion is dominated by the production of pearls. A large number of pearl oysters for seeding are obtained from wild stocks and supplemented by hatchery produced oysters, with major hatcheries operating at Broome and around the Dampier Peninsula (Gaughan and Santoro, 2018). Primary spawning of the pearl oyster occurs from mid-October to December. A smaller secondary spawning occurs in February and March (Gaughan and Santoro, 2020).

Other aquaculture developments in the North Coast include emerging producers of coral and live rock species for aquariums as well as barramundi (*Lates calcarifer*) farms and microalgae culturing for Omega-3, biofuels and protein biomass (Gaughan and Santoro, 2020).

11.6 Fisheries – Traditional

Traditional or customary fisheries are typically restricted to shallow coastal waters and/or areas with structures such as reef.

Dugong, fish and marine turtles that move between coastal and Commonwealth waters are important components of the Aboriginal people's culture and diet. Aboriginal people continue to actively manage their sea country in coastal waters of WA in order to protect and manage the marine environment, its resources and cultural values.

Indonesian fishers can fish within designated areas under the Australia-Indonesia Memorandum of Understanding regarding the Operations of Indonesian Traditional Fishermen in Areas of the Australian Fishing Zone and Continental Shelf – 1974 (MoU 74). Traditional fishing is allowed within the MoU Box (**Figure 11-1**), which encompasses: Ashmore Reef (Pulau Pasir), Cartier Island (Pulau Baru), Seringapatam Reef (Afringan), Scott Reef (Pulau Dato) and Browse Island (Berselan). Restrictions have since been introduced around Ashmore Reef and Cartier Island following their

designation as Nature Reserves under the Commonwealth's *National Parks and Wildlife Conservation Act 1975* in 1983 and 2000, respectively.

The MoU allows Indonesian fishers to fish in designated areas using traditional methods only. These methods include reef gleaning, free-diving, hand lining and other non-mechanised methods. Scott Reef is currently the principal reef in the MoU 74 Box and is utilised seasonally by Indonesian fishers to harvest trepang, trochus shells and other reef species. The peak season is July to October due to more favourable wind conditions, and to allow fishers to sun dry their catch on their boat decks (ERM, 2009). Browse Island is also frequently visited by shark fishers who mostly fish along the eastern margin of the MoU 74 Box.

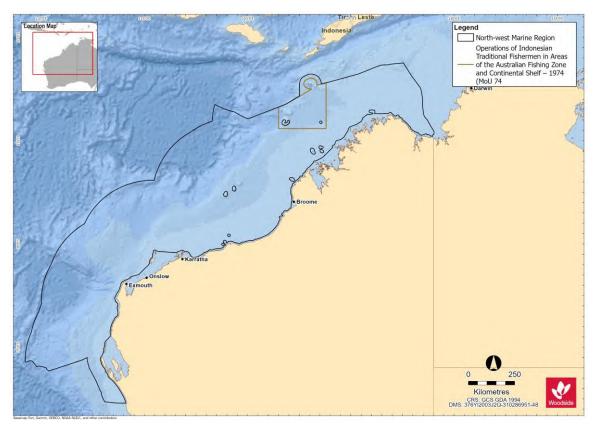


Figure 11-1 MOU 74 Box. Operations of Indonesian Traditional Fishermen in Areas of the Australian Fishing Zone and Continental Shelf – 1974

11.7 Tourism and Recreation

There are growing tourism and recreational sectors in WA. The Kimberley, Pilbara and Gascoyne regions are popular visitor destinations for Australian and international tourists. Tourism is concentrated in the vicinity of population centres including Broome, Dampier, Exmouth, Coral Bay and Shark Bay.

Recreational and tourism activities include: charter fishing, other recreational fishing, diving, snorkelling, marine fauna watching, and yachting.

11.7.1 Gascovne Region

Outside the petroleum industry, tourism is the largest revenue earner of all the major industries of the Gascoyne region. It contributes significantly to the local economy in terms of both income and

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employment. In 2018 there was an average of 337,400 visitors with a visitor spend of \$359 million (Gascoyne Development Commission¹¹).

In 2018-19, the Ningaloo region (Ningaloo Reef and the surrounding coastal region Exmouth Gulf, communities of Exmouth and Coral Bay, and adjacent proposed southern coastal reserves and pastoral leases) contributed an estimated \$110 million in value added to the WA economy (DCBA, 2020). Ningaloo's economic contribution to WA is attributed to four key types of economic activity, tourism expenditure by international, interstate and WA visitors to the Ningaloo region, commercial fishing in the Exmouth Gulf, recreation activity involving the Reef by residents of the Ningaloo region and management and research relating to the Reef (DCBA, 2020). More than 90% of this value added is attributed to the domestic and international tourists who visit Ningaloo each year (DCBA, 2020). The main marine nature-based tourist activities are concentrated around and within the Ningaloo WHA.

11.7.2 Pilbara region

Recreation and tourism activities within the Pilbara are of high social value. Tourism is a key economic driver for the Pilbara with more than 1 million visitors to the region every year, generating \$413 million in gross revenue annually (Pilbara Development Commission¹²).

Recreational fishing within the Pilbara region tends to be concentrated in State waters adjacent to population centres. Recreational fishing is known to occur around the Dampier Archipelago with boats launched from boat ramps around Dampier and Karratha (Williamson *et al.*, 2006). Once at sea, charter vessels may also frequent the waters surrounding the Montebello Islands.

11.7.3 Kimberley Region

Recreation and tourism activities in the Kimberley region occur predominantly in WA State waters (extending offshore 3 nm from the mainland), adjacent to coastal population centres (e.g. Broome), with a peak in activity during the winter months (dry season). These activities include recreational fishing, diving, snorkelling, wildlife watching and boating.

Primary dive locations in the Kimberley region include the Rowley Shoals, including Mermaid Reef AMP, Scott Reef, Seringapatam Reef, Ashmore Reef AMP and Cartier Island.

11.8 Shipping

Commercial shipping traffic is high within the NWMR with vessel activities including commercial fisheries, tourism such as cruises, international shipping and oil and gas operations. There are 12 ports adjacent to the NWMR, including the major ports of Dampier, Port Hedland and Broome, which are operated by their respective port authorities. These ports handle large tonnages of iron ore and petroleum exports in addition to salt, manganese, feldspar chromite and copper (DEWHA, 2008).

Heavy vessel traffic exists within the Pilbara Port Authority management area which recorded 10,064 vessel movements in Port of Dampier 2019/20 annual reporting period (PPA, 2020). Twenty-six designated anchorages for bulk carriers, petroleum and gas tankers, drilling rigs, offshore platforms, and pipelay vessels are located offshore of Rosemary Island.

In 2012, AMSA established a network of shipping fairways off the northwest coast of Australia. The shipping fairways, while not mandatory, aim to reduce the risk of collision between transiting vessels and offshore infrastructure. The fairways are intended to direct large vessels such as bulk carriers and LNG ships trading to the major ports into pre-defined routes to keep them clear of existing and planned offshore infrastructure (AMSA, 2013).

¹¹ https://www.gdc.wa.gov.au/industry-profiles/tourism/

¹² https://www.pdc.wa.gov.au/our-focus/strategicinitiatives/tourism

11.9 Oil and Gas Infrastructure

The NWMR supports a number of industries including petroleum exploration and production.

Within the NWMR there are seven sedimentary petroleum basins: Northern and Southern Carnarvon basins, Perth, Browse, Roebuck, Offshore Canning and Bonaparte basins. Of these, the Northern Carnarvon, Browse and Bonaparte basins hold large quantities of gas and comprise most of Australia's reserves of natural gas (DEWHA, 2008), which is reflected by the level of development in the area. In addition to existing facilities, there are proposed developments in the region. This includes proposals to develop gas and condensate from a number of fields within the NWMR.

In addition to the oil and gas industry, other land-based industries depend upon the marine environment in the nearshore area. These include ports, salt mines such as Karratha and Onslow, LNG onshore processing facilities such as Burrup Hub, Thevenard Island, Barrow Island, Varanus Island, and small-scale desalination plants at Barrow Island, Burrup, Cape Preston, and Onslow.

11.10 Defence

Key Australian Department of Defence (DoD) operational areas and facilities areas of the NWMR for training and operational activities, include:

- An operating logistics base has been established in Dampier to support vessels patrolling the waters around offshore oil and gas facilities. A dedicated navy administrative support facility is also being constructed at the nearby township of Karratha.
- The Royal Australian Air Force currently maintains two 'bare bases' in remote areas of WA that are used for military exercises. One of these is the Royal Australian Air Force Base in Learmonth. The Royal Australian Air Force maintains the Commonwealth Heritage listed Learmonth Air Weapons Range Facility, which is located between Ningaloo Station and the Cape Range National Park. The air training area associated with the Learmonth base extends over the offshore region.
- The Royal Australian Air Force Base Curtin is located on the north coast of WA, south-east
 of Derby and 170 km east of Broome. It provides support for land, air and sea operations
 aimed to support Australia's northern approaches.
- The Naval Communications Station Harold E. Holt is located ~6 km north of Exmouth. The
 main role of the station is to communicate at very low frequencies (19.8 kHz) with Australian
 and United States submarines and ships in the eastern Indian Ocean and the western Pacific
 Ocean.

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APPENDIX A. PROTECTED MATTER SEARCH REPORTS FOR NWMR, SWMR AND NMR

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EPBC Act Protected Matters Report

This report provides general guidance on matters of national environmental significance and other matters protected by the EPBC Act in the area you have selected.

Information on the coverage of this report and qualifications on data supporting this report are contained in the caveat at the end of the report.

Information is available about <u>Environment Assessments</u> and the EPBC Act including significance guidelines, forms and application process details.

Report created: 10/05/21 12:59:15

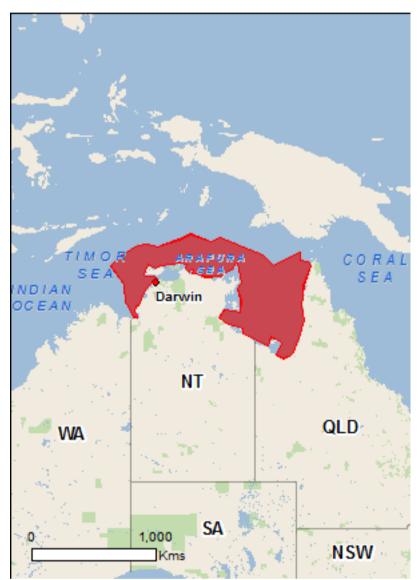
Summary

Details

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

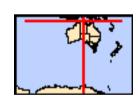
Caveat

<u>Acknowledgements</u>



This map may contain data which are ©Commonwealth of Australia (Geoscience Australia), ©PSMA 2015

Coordinates
Buffer: 1.0Km



Summary

Matters of National Environmental Significance

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

World Heritage Properties:	None
National Heritage Places:	None
Wetlands of International Importance:	None
Great Barrier Reef Marine Park:	None
Commonwealth Marine Area:	2
Listed Threatened Ecological Communities:	None
Listed Threatened Species:	33
Listed Migratory Species:	70

Other Matters Protected by the EPBC Act

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

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

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

Commonwealth Land:	None
Commonwealth Heritage Places:	None
Listed Marine Species:	127
Whales and Other Cetaceans:	25
Critical Habitats:	None
Commonwealth Reserves Terrestrial:	None
Australian Marine Parks:	15

Extra Information

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

State and Territory Reserves:	2
Regional Forest Agreements:	None
Invasive Species:	1
Nationally Important Wetlands:	1
Key Ecological Features (Marine)	8

Details

Matters of National Environmental Significance

Commonwealth Marine Area

[Resource Information]

Approval is required for a proposed activity that is located within the Commonwealth Marine Area which has, will have, or is likely to have a significant impact on the environment. Approval may be required for a proposed action taken outside the Commonwealth Marine Area but which has, may have or is likely to have a significant impact on the environment in the Commonwealth Marine Area. Generally the Commonwealth Marine Area stretches from three nautical miles to two hundred nautical miles from the coast.

Name

EEZ and Territorial Sea
Extended Continental Shelf

Marine Regions

[Resource Information]

If you are planning to undertake action in an area in or close to the Commonwealth Marine Area, and a marine bioregional plan has been prepared for the Commonwealth Marine Area in that area, the marine bioregional plan may inform your decision as to whether to refer your proposed action under the EPBC Act.

Ν	а	m	e
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North

Listed Threatened Species		[Resource Information]
Name	Status	Type of Presence
Birds		
Calidris canutus Red Knot, Knot [855]	Endangered	Species or species habitat known to occur within area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area
Calidris tenuirostris Great Knot [862]	Critically Endangered	Species or species habitat known to occur within area
Charadrius leschenaultii Greater Sand Plover, Large Sand Plover [877]	Vulnerable	Species or species habitat known to occur within area
Charadrius mongolus Lesser Sand Plover, Mongolian Plover [879]	Endangered	Species or species habitat known to occur within area
Erythrotriorchis radiatus Red Goshawk [942]	Vulnerable	Species or species habitat likely to occur within area
Erythrura gouldiae Gouldian Finch [413]	Endangered	Species or species habitat may occur within area
Falcunculus frontatus whitei Crested Shrike-tit (northern), Northern Shrike-tit [26013]	Vulnerable	Species or species habitat likely to occur within area
<u>Limosa lapponica baueri</u> Nunivak Bar-tailed Godwit, Western Alaskan Bar-	Vulnerable	Species or species

Name	Status	Type of Presence
tailed Godwit [86380]		habitat known to occur
		within area
Numenius madagascariensis		
Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat known to occur within area
		Known to occur within area
Rostratula australis		
Australian Painted Snipe [77037]	Endangered	Species or species habitat
	-	may occur within area
Mammals		
Balaenoptera borealis		
Sei Whale [34]	Vulnerable	Species or species habitat
Cor Whale [o 1]	Vamorabio	likely to occur within area
		•
Balaenoptera musculus		
Blue Whale [36]	Endangered	Species or species habitat
		likely to occur within area
Balaenoptera physalus		
Fin Whale [37]	Vulnerable	Species or species habitat
		likely to occur within area
Macroderma gigas		
Ghost Bat [174]	Vulnerable	Species or species habitat
	Valiforable	likely to occur within area
Megaptera novaeangliae		
Humpback Whale [38]	Vulnerable	Species or species habitat
		likely to occur within area
Notomys aquilo		
Northern Hopping-mouse, Woorrentinta [123]	Endangered	Species or species habitat
3	3 3 3 3	may occur within area
Saccolaimus saccolaimus nudicluniatus	Vulnarabla	Charina ar angaine habitat
Bare-rumped Sheath-tailed Bat, Bare-rumped Sheathtail Bat [66889]	Vulnerable	Species or species habitat may occur within area
		may occur within area
Xeromys myoides		
Water Mouse, False Water Rat, Yirrkoo [66]	Vulnerable	Species or species habitat
		may occur within area
Reptiles		
Caretta caretta		
Loggerhead Turtle [1763]	Endangered	Foraging, feeding or related
		behaviour known to occur
Chalania mudaa		within area
<u>Chelonia mydas</u> Green Turtle [1765]	Vulnerable	Breeding known to occur
Oreen Turtie [1700]	Vulliciable	within area
Cryptoblepharus gurrmul		
Arafura Snake-eyed Skink [83106]	Endangered	Species or species habitat
		known to occur within area
Dermochelys coriacea		
<u>Dermochelys coriacea</u> Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Congregation or
Loantorback rulie, Leantery rulie, Luni [1/00]	Liluariyereu	aggregation known to occur
		within area
Eretmochelys imbricata		
Hawksbill Turtle [1766]	Vulnerable	Breeding known to occur
Lanidochalve alivacea		within area
Lepidochelys olivacea Olive Ridley Turtle, Pacific Ridley Turtle [1767]	Endangered	Breeding known to occur
Onversible, racine islatey runte [1707]	Lilidangered	within area
Natator depressus		3 2 2.
Flatback Turtle [59257]	Vulnerable	Breeding known to occur
Charles		within area
Sharks Carebardon carebarias		
Carcharodon carcharias White Shark, Great White Shark [64470]	Vulnerable	Species or species habitat
vvinto onant, ordat vvinto onant [04470]	v an iorabi o	may occur within area
		, Joseph Manna aroa

Name	Status	Type of Presence
Glyphis garricki Northern River Shark, New Guinea River Shark [82454]	Endangered	Species or species habitat known to occur within area
Glyphis glyphis Speartooth Shark [82453]	Critically Endangered	Species or species habitat may occur within area
Pristis clavata Dwarf Sawfish, Queensland Sawfish [68447]	Vulnerable	Species or species habitat known to occur within area
Pristis pristis Freshwater Sawfish, Largetooth Sawfish, River Sawfish, Leichhardt's Sawfish, Northern Sawfish [60756] Pristis zijsron	Vulnerable	Species or species habitat known to occur within area
Green Sawfish, Dindagubba, Narrowsnout Sawfish [68442]	Vulnerable	Species or species habitat known to occur within area
Rhincodon typus Whale Shark [66680]	Vulnerable	Species or species habitat may occur within area
Listed Migratory Species * Species is listed under a different scientific name on	the EPBC Act - Threatened	[Resource Information] I Species list.
Name	Threatened	Type of Presence
Migratory Marine Birds		
Anous stolidus Common Noddy [825]		Foraging, feeding or related behaviour known to occur within area
Apus pacificus Fork-tailed Swift [678]		Species or species habitat likely to occur within area
Calonectris leucomelas Streaked Shearwater [1077]		Species or species habitat known to occur within area
Fregata ariel Lesser Frigatebird, Least Frigatebird [1012]		Species or species habitat known to occur within area
Fregata minor Great Frigatebird, Greater Frigatebird [1013]		Species or species habitat known to occur within area
Sterna dougallii Roseate Tern [817]		Breeding known to occur within area
Sternula albifrons Little Tern [82849]		Species or species habitat may occur within area
Sula leucogaster Brown Booby [1022]		Breeding known to occur within area
Migratory Marine Species		
Anoxypristis cuspidata Narrow Sawfish, Knifetooth Sawfish [68448]		Species or species habitat known to occur within area
Balaenoptera borealis Sei Whale [34]	Vulnerable	Species or species habitat likely to occur within area
Balaenoptera edeni Bryde's Whale [35]		Species or species habitat may occur within area

Name	Threatened	Type of Presence
Balaenoptera musculus Blue Whale [36]	Endangered	Species or species habitat likely to occur within area
Balaenoptera physalus Fin Whale [37]	Vulnerable	Species or species habitat likely to occur within area
Carcharhinus longimanus Oceanic Whitetip Shark [84108]		Species or species habitat may occur within area
Carcharodon carcharias White Shark, Great White Shark [64470]	Vulnerable	Species or species habitat may occur within area
Caretta caretta Loggerhead Turtle [1763]	Endangered	Foraging, feeding or related behaviour known to occur within area
Chelonia mydas Green Turtle [1765]	Vulnerable	Breeding known to occur within area
Crocodylus porosus Salt-water Crocodile, Estuarine Crocodile [1774]		Species or species habitat likely to occur within area
Dermochelys coriacea Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Congregation or aggregation known to occur within area
Dugong dugon Dugong [28]		Species or species habitat known to occur within area
Eretmochelys imbricata Hawksbill Turtle [1766]	Vulnerable	Breeding known to occur within area
Isurus oxyrinchus Shortfin Mako, Mako Shark [79073]		Species or species habitat likely to occur within area
Isurus paucus Longfin Mako [82947]		Species or species habitat likely to occur within area
Lepidochelys olivacea Olive Ridley Turtle, Pacific Ridley Turtle [1767]	Endangered	Breeding known to occur within area
Manta alfredi Reef Manta Ray, Coastal Manta Ray, Inshore Manta Ray, Prince Alfred's Ray, Resident Manta Ray [84994]		Species or species habitat likely to occur within area
Manta birostris Giant Manta Ray, Chevron Manta Ray, Pacific Manta Ray, Pelagic Manta Ray, Oceanic Manta Ray [84995]		Species or species habitat likely to occur within area
Megaptera novaeangliae Humpback Whale [38]	Vulnerable	Species or species habitat likely to occur within area
Natator depressus Flatback Turtle [59257]	Vulnerable	Breeding known to occur within area
Orcaella heinsohni Australian Snubfin Dolphin [81322]		Species or species habitat known to occur within area
Orcinus orca Killer Whale, Orca [46]		Species or species habitat may occur within area

N I		T (D
Name	Threatened	Type of Presence
Physeter macrocephalus		
Sperm Whale [59]		Species or species habitat may occur within area
Pristis clavata		
Dwarf Sawfish, Queensland Sawfish [68447]	Vulnerable	Species or species habitat known to occur within area
Drietie prietie		
Pristis pristis Freshwater Sawfish, Largetooth Sawfish, River Sawfish, Leichhardt's Sawfish, Northern Sawfish [60756]	Vulnerable	Species or species habitat known to occur within area
<u>Pristis zijsron</u>		
Green Sawfish, Dindagubba, Narrowsnout Sawfish [68442]	Vulnerable	Species or species habitat known to occur within area
Rhincodon typus		
Whale Shark [66680]	Vulnerable	Species or species habitat may occur within area
Sousa chinensis		
Indo-Pacific Humpback Dolphin [50]		Breeding known to occur
Tursiops aduncus (Arafura/Timor Sea populations)		within area
Spotted Bottlenose Dolphin (Arafura/Timor Sea		Species or species habitat
populations) [78900]		Species or species habitat known to occur within area
Migratory Terrestrial Species		
Cecropis daurica		
Red-rumped Swallow [80610]		Species or species habitat may occur within area
<u>Cuculus optatus</u>		
Oriental Cuckoo, Horsfield's Cuckoo [86651]		Species or species habitat
		may occur within area
<u>Hirundo rustica</u>		
Barn Swallow [662]		Species or species habitat may occur within area
Motacilla cinerea		
Grey Wagtail [642]		Species or species habitat may occur within area
Motacilla flava		
		Charles or analisa habitat
Yellow Wagtail [644]		Species or species habitat may occur within area
Migratory Wetlands Species		
Acrocephalus orientalis		
Oriental Reed-Warbler [59570]		Species or species habitat may occur within area
Actitis hypoleucos		
Common Sandpiper [59309]		Species or species habitat known to occur within area
Arenaria interpres		
Ruddy Turnstone [872]		Species or species habitat known to occur within area
Calidris acuminata		
Sharp-tailed Sandpiper [874]		Species or species habitat known to occur within area
Calidris alba		
Sanderling [875]		Species or species habitat
		likely to occur within area
Calidris canutus		
Red Knot, Knot [855]	Endangered	Species or species habitat known to occur within area

Name	Threatened	Type of Presence
Calidris ferruginea		
Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area
Calidris melanotos		
Pectoral Sandpiper [858]		Species or species habitat may occur within area
Calidris ruficollis		
Red-necked Stint [860]		Species or species habitat known to occur within area
Calidris tenuirostris		
Great Knot [862]	Critically Endangered	Species or species habitat known to occur within area
Charadrius leschenaultii		
Greater Sand Plover, Large Sand Plover [877]	Vulnerable	Species or species habitat known to occur within area
Charadrius mongolus		
Lesser Sand Plover, Mongolian Plover [879]	Endangered	Species or species habitat known to occur within area
<u>Charadrius veredus</u>		
Oriental Plover, Oriental Dotterel [882]		Species or species habitat may occur within area
Glareola maldivarum		
Oriental Pratincole [840]		Species or species habitat may occur within area
<u>Limicola falcinellus</u>		
Broad-billed Sandpiper [842]		Species or species habitat likely to occur within area
<u>Limosa lapponica</u>		
Bar-tailed Godwit [844]		Species or species habitat known to occur within area
<u>Limosa limosa</u>		
Black-tailed Godwit [845]		Species or species habitat known to occur within area
Numenius madagascariensis		
Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat known to occur within area
Numenius minutus		
Little Curlew, Little Whimbrel [848]		Species or species habitat known to occur within area
Numenius phaeopus		
Whimbrel [849]		Species or species habitat known to occur within area
Pandion haliaetus		
Osprey [952]		Species or species habitat known to occur within area
Pluvialis fulva		
Pacific Golden Plover [25545]		Species or species habitat known to occur within area
Pluvialis squatarola		
Grey Plover [865]		Species or species habitat known to occur within area
Thalasseus bergii		_
Greater Crested Tern [83000] <u>Tringa brevipes</u>		Breeding likely to occur within area
Grey-tailed Tattler [851]		Species or species
,		

Name	Threatened	Type of Presence
Tringa nebularia		habitat known to occur within area
Common Greenshank, Greenshank [832]		Species or species habitat known to occur within area

Tringa stagnatilis

Marsh Sandpiper, Little Greenshank [833] Species or species habitat

known to occur within area

Xenus cinereus

Curlew Sandpiper [856]

Pectoral Sandpiper [858]

Calidris melanotos

Terek Sandpiper [59300] Species or species habitat

known to occur within area

Species or species habitat known to occur within area

Species or species habitat

may occur within area

Other Matters Protected by the EPBC Ad	ct	
Listed Marine Species		[Resource Information]
* Species is listed under a different scientific name		
Name	Threatened	Type of Presence
Birds Acrocephalus orientalis		
Oriental Reed-Warbler [59570]		Species or species habitat may occur within area
Actitis hypoleucos		
Common Sandpiper [59309]		Species or species habitat known to occur within area
Anous stolidus		
Common Noddy [825]		Foraging, feeding or related behaviour known to occur within area
Apus pacificus		
Fork-tailed Swift [678]		Species or species habitat likely to occur within area
Arenaria interpres		
Ruddy Turnstone [872]		Species or species habitat known to occur within area
Calidris acuminata		
Sharp-tailed Sandpiper [874]		Species or species habitat known to occur within area
Calidris alba		
Sanderling [875]		Species or species habitat likely to occur within area
Calidris canutus		
Red Knot, Knot [855]	Endangered	Species or species habitat known to occur within area
Calidris ferruginea		
	.	

Critically Endangered

Name	Threatened	Type of Presence
Calidris ruficollis		•
Red-necked Stint [860]		Species or species habitat known to occur within area
Calidris tenuirostris		
Great Knot [862]	Critically Endangered	Species or species habitat known to occur within area
<u>Calonectris leucomelas</u>		
Streaked Shearwater [1077]		Species or species habitat known to occur within area
Charadrius leschenaultii		
Greater Sand Plover, Large Sand Plover [877]	Vulnerable	Species or species habitat known to occur within area
Charadrius mongolus		
Lesser Sand Plover, Mongolian Plover [879]	Endangered	Species or species habitat known to occur within area
Charadrius ruficapillus		
Red-capped Plover [881]		Species or species habitat known to occur within area
<u>Charadrius veredus</u>		
Oriental Plover, Oriental Dotterel [882]		Species or species habitat may occur within area
Fregata ariel		
Lesser Frigatebird, Least Frigatebird [1012]		Species or species habitat known to occur within area
Fregata minor		
Great Frigatebird, Greater Frigatebird [1013]		Species or species habitat known to occur within area
Glareola maldivarum		
Oriental Pratincole [840]		Species or species habitat may occur within area
Haliaeetus leucogaster		
White-bellied Sea-Eagle [943]		Species or species habitat likely to occur within area
Heteroscelus brevipes		
Grey-tailed Tattler [59311]		Species or species habitat known to occur within area
Himantopus himantopus		
Pied Stilt, Black-winged Stilt [870]		Species or species habitat known to occur within area
Hirundo daurica		
Red-rumped Swallow [59480]		Species or species habitat may occur within area
Hirundo rustica		
Barn Swallow [662]		Species or species habitat may occur within area
<u>Limicola falcinellus</u>		
Broad-billed Sandpiper [842]		Species or species habitat likely to occur within area
Limosa lapponica		
Bar-tailed Godwit [844]		Species or species habitat known to occur within area
<u>Limosa limosa</u>		
Black-tailed Godwit [845]		Species or species habitat known to occur within area

Name	Threatened	Type of Presence
Motacilla cinerea		
Grey Wagtail [642]		Species or species habitat
		may occur within area
Motacilla flava		
Yellow Wagtail [644]		Species or species habitat
		may occur within area
Numenius madagascariensis		
Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat
,		known to occur within area
Numenius minutus		
Little Curlew, Little Whimbrel [848]		Species or species habitat
Little Carlow, Little Williams (C. 10)		known to occur within area
Numenius phaeopus Whimbrol [240]		Species or species habitat
Whimbrel [849]		Species or species habitat known to occur within area
Pandion haliaetus		
Osprey [952]		Species or species habitat known to occur within area
		Known to occur within area
Pluvialis fulva		
Pacific Golden Plover [25545]		Species or species habitat
		known to occur within area
Pluvialis squatarola		
Grey Plover [865]		Species or species habitat
		known to occur within area
Recurvirostra novaehollandiae		
Red-necked Avocet [871]		Species or species habitat
		known to occur within area
Rostratula benghalensis (sensu lato)		
Painted Snipe [889]	Endangered*	Species or species habitat
		may occur within area
Sterna albifrons		
Little Tern [813]		Species or species habitat
		may occur within area
Sterna bengalensis		
Lesser Crested Tern [815]		Breeding known to occur
		within area
Sterna bergii		-
Crested Tern [816]		Breeding likely to occur within area
Sterna dougallii		within area
Roseate Tern [817]		Breeding known to occur
Stiltie ieebelle		within area
Stiltia isabella Australian Pratincole [818]		Species or species habitat
Additalian Fraumoolo [010]		known to occur within area
Cula lavas statis		
Sula leucogaster Provin Booky [1022]		Prooding known to occur
Brown Booby [1022]		Breeding known to occur within area
Tringa nebularia		
Common Greenshank, Greenshank [832]		Species or species habitat
		known to occur within area
Tringa stagnatilis		
Marsh Sandpiper, Little Greenshank [833]		Species or species habitat
		known to occur within area
Xenus cinereus		
Terek Sandpiper [59300]		Species or species habitat
		known to occur within area

Fish

Name	Threatened	Type of Presence
Acentronura tentaculata		
Shortpouch Pygmy Pipehorse [66187]		Species or species habitat may occur within area
Bhanotia fasciolata		
Corrugated Pipefish, Barbed Pipefish [66188]		Species or species habitat may occur within area
<u>Campichthys tricarinatus</u>		
Three-keel Pipefish [66192]		Species or species habitat may occur within area
Choeroichthys brachysoma		
Pacific Short-bodied Pipefish, Short-bodied Pipefish [66194]		Species or species habitat may occur within area
<u>Choeroichthys suillus</u>		
Pig-snouted Pipefish [66198]		Species or species habitat may occur within area
Corythoichthys amplexus		
Fijian Banded Pipefish, Brown-banded Pipefish [66199]		Species or species habitat may occur within area
Corythoichthys flavofasciatus		
Reticulate Pipefish, Yellow-banded Pipefish, Network Pipefish [66200]		Species or species habitat may occur within area
Corythoichthys haematopterus		
Reef-top Pipefish [66201]		Species or species habitat may occur within area
Corythoichthys intestinalis		
Australian Messmate Pipefish, Banded Pipefish [66202]		Species or species habitat may occur within area
Corythoichthys ocellatus		
Orange-spotted Pipefish, Ocellated Pipefish [66203]		Species or species habitat may occur within area
Corythoichthys schultzi		
Schultz's Pipefish [66205]		Species or species habitat may occur within area
Cosmocampus banneri		
Roughridge Pipefish [66206]		Species or species habitat may occur within area
Cosmocampus maxweberi		
Maxweber's Pipefish [66209]		Species or species habitat may occur within area
Doryrhamphus dactyliophorus		
Banded Pipefish, Ringed Pipefish [66210]		Species or species habitat may occur within area
Doryrhamphus excisus		
Bluestripe Pipefish, Indian Blue-stripe Pipefish, Pacific Blue-stripe Pipefish [66211]		Species or species habitat may occur within area
Doryrhamphus janssi		
Cleaner Pipefish, Janss' Pipefish [66212]		Species or species habitat may occur within area
Festucalex cinctus		
Girdled Pipefish [66214]		Species or species habitat may occur within area
Filicampus tigris		
Tiger Pipefish [66217]		Species or species habitat may occur within area

Name	Threatened	Type of Presence
Halicampus brocki		
Brock's Pipefish [66219]		Species or species habitat may occur within area
Halicampus dunckeri		
Red-hair Pipefish, Duncker's Pipefish [66220]		Species or species habitat may occur within area
Halicampus grayi		
Mud Pipefish, Gray's Pipefish [66221]		Species or species habitat may occur within area
Halicampus macrorhynchus		
Whiskered Pipefish, Ornate Pipefish [66222]		Species or species habitat may occur within area
Halicampus spinirostris		
Spiny-snout Pipefish [66225]		Species or species habitat may occur within area
Haliichthys taeniophorus		
Ribboned Pipehorse, Ribboned Seadragon [66226]		Species or species habitat may occur within area
Hippichthys cyanospilos		
Blue-speckled Pipefish, Blue-spotted Pipefish [66228]		Species or species habitat may occur within area
Hippichthys heptagonus		
Madura Pipefish, Reticulated Freshwater Pipefish [66229]		Species or species habitat may occur within area
Hippichthys parvicarinatus		
Short-keel Pipefish, Short-keeled Pipefish [66230]		Species or species habitat may occur within area
Hippichthys penicillus		
Beady Pipefish, Steep-nosed Pipefish [66231]		Species or species habitat may occur within area
Hippichthys spicifer		
Belly-barred Pipefish, Banded Freshwater Pipefish [66232]		Species or species habitat may occur within area
Hippocampus angustus		
Western Spiny Seahorse, Narrow-bellied Seahorse [66234]		Species or species habitat may occur within area
Hippocampus histrix		
Spiny Seahorse, Thorny Seahorse [66236]		Species or species habitat may occur within area
Hippocampus kuda		
Spotted Seahorse, Yellow Seahorse [66237]		Species or species habitat may occur within area
Hippocampus planifrons		
Flat-face Seahorse [66238]		Species or species habitat may occur within area
Hippocampus spinosissimus		
Hedgehog Seahorse [66239]		Species or species habitat may occur within area
Hippocampus trimaculatus		
Three-spot Seahorse, Low-crowned Seahorse, Flat- faced Seahorse [66720]		Species or species habitat may occur within area
Hippocampus zebra		
Zebra Seahorse [66241]		Species or species habitat may occur within area

Name	Threatened	Type of Presence
Micrognathus brevirostris thorntail Pipefish, Thorn-tailed Pipefish [66254]		Species or species habitat may occur within area
Micrognathus micronotopterus Tidepool Pipefish [66255]		Species or species habitat may occur within area
Microphis brachyurus Short-tail Pipefish, Short-tailed River Pipefish [66257]		Species or species habitat may occur within area
Solegnathus hardwickii Pallid Pipehorse, Hardwick's Pipehorse [66272]		Species or species habitat may occur within area
Solegnathus lettiensis Gunther's Pipehorse, Indonesian Pipefish [66273]		Species or species habitat may occur within area
Solenostomus cyanopterus Robust Ghostpipefish, Blue-finned Ghost Pipefish, [66183]		Species or species habitat may occur within area
Syngnathoides biaculeatus Double-end Pipehorse, Double-ended Pipehorse, Alligator Pipefish [66279]		Species or species habitat may occur within area
Trachyrhamphus bicoarctatus Bentstick Pipefish, Bend Stick Pipefish, Short-tailed Pipefish [66280]		Species or species habitat may occur within area
Trachyrhamphus longirostris Straightstick Pipefish, Long-nosed Pipefish, Straight Stick Pipefish [66281]		Species or species habitat may occur within area
Mammals		
Dugong dugon Dugong [28]		Species or species habitat known to occur within area
Reptiles		
Acalyptophis peronii Horned Seasnake [1114]		Species or species habitat may occur within area
Aipysurus duboisii Dubois' Seasnake [1116]		Species or species habitat may occur within area
Aipysurus eydouxii Spine-tailed Seasnake [1117]		Species or species habitat may occur within area
Aipysurus laevis Olive Seasnake [1120]		Species or species habitat may occur within area
Astrotia stokesii Stokes' Seasnake [1122]		Species or species habitat may occur within area
Chalaria mudas	Endangered	Foraging, feeding or related behaviour known to occur within area
Chelonia mydas Green Turtle [1765]	Vulnerable	Breeding known to occur within area
Crocodylus porosus Salt-water Crocodile, Estuarine Crocodile [1774]		Species or species habitat likely to occur within area

Name	Threatened	Type of Presence
Dermochelys coriacea Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Congregation or aggregation known to occur within area
Disteira kingii Spectacled Seasnake [1123]		Species or species habitat may occur within area
Disteira major Olive-headed Seasnake [1124]		Species or species habitat may occur within area
Emydocephalus annulatus Turtle-headed Seasnake [1125]		Species or species habitat may occur within area
Enhydrina schistosa Beaked Seasnake [1126]		Species or species habitat may occur within area
Eretmochelys imbricata Hawksbill Turtle [1766]	Vulnerable	Breeding known to occur within area
Hydrelaps darwiniensis Black-ringed Seasnake [1100]		Species or species habitat may occur within area
Hydrophis atriceps Black-headed Seasnake [1101]		Species or species habitat may occur within area
Hydrophis caerulescens Dwarf Seasnake [1103]		Species or species habitat may occur within area
Hydrophis coggeri Slender-necked Seasnake [25925]		Species or species habitat may occur within area
Hydrophis czeblukovi Fine-spined Seasnake [59233]		Species or species habitat may occur within area
Hydrophis elegans Elegant Seasnake [1104]		Species or species habitat may occur within area
Hydrophis gracilis Slender Seasnake [1106]		Species or species habitat may occur within area
Hydrophis inornatus Plain Seasnake [1107]		Species or species habitat may occur within area
Hydrophis mcdowelli null [25926]		Species or species habitat may occur within area
Hydrophis melanosoma Black-banded Robust Seasnake [1109]		Species or species habitat may occur within area
Hydrophis ornatus Spotted Seasnake, Ornate Reef Seasnake [1111]		Species or species habitat may occur within area
Hydrophis pacificus Large-headed Seasnake, Pacific Seasnake [1112]		Species or species habitat may occur within area
Hydrophis vorisi a seasnake [25927]		Species or species

Name	Threatened	Type of Presence
	THICALORICA	habitat may occur within area
Lapemis hardwickii Spine-bellied Seasnake [1113]		Species or species habitat may occur within area
Laticauda colubrina		
a sea krait [1092]		Species or species habitat may occur within area
<u>Laticauda laticaudata</u>		
a sea krait [1093]		Species or species habitat may occur within area
Lepidochelys olivacea Olive Ridley Turtle, Pacific Ridley Turtle [1767]	Endangered	Breeding known to occur within area
Natator depressus Flotbook Turtle [50257]	Vulnorable	Drooding known to coour
Flatback Turtle [59257] Parahydrophis mertoni	Vulnerable	Breeding known to occur within area
Northern Mangrove Seasnake [1090]		Species or species habitat may occur within area
Pelamis platurus Yellow-bellied Seasnake [1091]		Species or species habitat may occur within area
Whales and other Catacoons		[Decourse Information]
Whales and other Cetaceans Name	Status	[Resource Information]
Mammals	Status	Type of Presence
Balaenoptera borealis		
Sei Whale [34]	Vulnerable	Species or species habitat likely to occur within area
Balaenoptera edeni		Consider on appairs babitat
Bryde's Whale [35]		Species or species habitat may occur within area
Balaenoptera musculus	Co do o co o d	Charina ar annaine babitat
Blue Whale [36]	Endangered	Species or species habitat likely to occur within area
Balaenoptera physalus Fin Whale [37]	Vulnerable	Species or species habitat
	vuillerable	likely to occur within area
Delphinus delphis Common Dophin, Short-beaked Common Dolphin [60]		Species or species habitat
Feresa attenuata		may occur within area
Pygmy Killer Whale [61]		Species or species habitat may occur within area
Globicephala macrorhynchus		
Short-finned Pilot Whale [62]		Species or species habitat may occur within area
Grampus griseus Pisso's Dolphin, Grampus [64]		Charles or angeles helitet
Risso's Dolphin, Grampus [64]		Species or species habitat may occur within area
Kogia breviceps Pygmy Sperm Whale [57]		Species or species habitat
		may occur within area
Kogia simus Dwarf Sperm Whale [58]		Species or species habitat
		may occur within area

Name	Status	Type of Presence
Megaptera novaeangliae		
Humpback Whale [38]	Vulnerable	Species or species habitat likely to occur within area
Orcaella brevirostris		
Irrawaddy Dolphin [45]		Species or species habitat known to occur within area
Orcinus orca		
Killer Whale, Orca [46]		Species or species habitat may occur within area
Peponocephala electra		
Melon-headed Whale [47]		Species or species habitat may occur within area
Physeter macrocephalus		
Sperm Whale [59]		Species or species habitat may occur within area
Pseudorca crassidens		
False Killer Whale [48]		Species or species habitat likely to occur within area
Sousa chinensis		
Indo-Pacific Humpback Dolphin [50]		Breeding known to occur within area
Stenella attenuata		
Spotted Dolphin, Pantropical Spotted Dolphin [51]		Species or species habitat may occur within area
Stenella coeruleoalba		
Striped Dolphin, Euphrosyne Dolphin [52]		Species or species habitat may occur within area
Stenella longirostris		
Long-snouted Spinner Dolphin [29]		Species or species habitat may occur within area
Steno bredanensis		
Rough-toothed Dolphin [30]		Species or species habitat may occur within area
<u>Tursiops aduncus</u>		
Indian Ocean Bottlenose Dolphin, Spotted Bottlenos Dolphin [68418]	se	Species or species habitat likely to occur within area
Tursiops aduncus (Arafura/Timor Sea populations)		
Spotted Bottlenose Dolphin (Arafura/Timor Sea		Species or species habitat
populations) [78900]		known to occur within area
Tursiops truncatus s. str.		
Bottlenose Dolphin [68417]		Species or species habitat may occur within area
Ziphius cavirostris		
Cuvier's Beaked Whale, Goose-beaked Whale [56]		Species or species habitat may occur within area

Australian Marine Parks	[Resource Information]
Name	Label
Arafura	Multiple Use Zone (IUCN VI)
Arafura	Special Purpose Zone (Trawl) (IUCN VI)
Arnhem	Special Purpose Zone (IUCN VI)
Gulf of Carpentaria	National Park Zone (IUCN II)
Gulf of Carpentaria	Special Purpose Zone (Trawl) (IUCN VI)
Joseph Bonaparte Gulf	Multiple Use Zone (IUCN VI)

Name	Label
Joseph Bonaparte Gulf	Special Purpose Zone (IUCN VI)
Limmen	Habitat Protection Zone (IUCN IV)
Oceanic Shoals	Multiple Use Zone (IUCN VI)
Oceanic Shoals	Special Purpose Zone (Trawl) (IUCN VI)
Wessel	Habitat Protection Zone (IUCN IV)
Wessel	Special Purpose Zone (Trawl) (IUCN VI)
West Cape York	Habitat Protection Zone (IUCN IV)
West Cape York	National Park Zone (IUCN II)
West Cape York	Special Purpose Zone (IUCN VI)

Extra Information

Key Ecological Features (Marine)

State and Territory Reserves	[Resource Information]
Name	State
Anindilyakwa	NT
Marthakal	NT

Invasive Species [Resource Information]

Weeds reported here are the 20 species of national significance (WoNS), along with other introduced plants that are considered by the States and Territories to pose a particularly significant threat to biodiversity. The following feral animals are reported: Goat, Red Fox, Cat, Rabbit, Pig, Water Buffalo and Cane Toad. Maps from Landscape Health Project, National Land and Water Resouces Audit, 2001.

Name	Status	Type of Presence
Plants		
Andropogon gayanus		
Gamba Grass [66895]		Species or species habitat likely to occur within area
Nationally Important Wetlands		[Resource Information]
Name		State
Southern Gulf Aggregation		QLD

[Resource Information]

Key Ecological Features are the parts of the marine ecosystem that are considered to be important for the biodiversity or ecosystem functioning and integrity of the Commonwealth Marine Area.

Name	Region
Carbonate bank and terrace system of the Van	North
Gulf of Carpentaria basin	North
Gulf of Carpentaria coastal zone	North
Pinnacles of the Bonaparte Basin	North
Plateaux and saddle north-west of the Wellesley	North
Shelf break and slope of the Arafura Shelf	North
Submerged coral reefs of the Gulf of Carpentaria	North
Tributary Canyons of the Arafura Depression	North

Caveat

The information presented in this report has been provided by a range of data sources as acknowledged at the end of the report.

This report is designed to assist in identifying the locations of places which may be relevant in determining obligations under the Environment Protection and Biodiversity Conservation Act 1999. It holds mapped locations of World and National Heritage properties, Wetlands of International and National Importance, Commonwealth and State/Territory reserves, listed threatened, migratory and marine species and listed threatened ecological communities. Mapping of Commonwealth land is not complete at this stage. Maps have been collated from a range of sources at various resolutions.

Not all species listed under the EPBC Act have been mapped (see below) and therefore a report is a general guide only. Where available data supports mapping, the type of presence that can be determined from the data is indicated in general terms. People using this information in making a referral may need to consider the gualifications below and may need to seek and consider other information sources.

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

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

Where very little information is available for species or large number of maps are required in a short time-frame, maps are derived either from 0.04 or 0.02 decimal degree cells; by an automated process using polygon capture techniques (static two kilometre grid cells, alpha-hull and convex hull); or captured manually or by using topographic features (national park boundaries, islands, etc). In the early stages of the distribution mapping process (1999-early 2000s) distributions were defined by degree blocks, 100K or 250K map sheets to rapidly create distribution maps. More reliable distribution mapping methods are used to update these distributions as time permits.

Only selected species covered by the following provisions of the EPBC Act have been mapped:

- migratory and
- marine

The following species and ecological communities have not been mapped and do not appear in reports produced from this database:

- threatened species listed as extinct or considered as vagrants
- some species and ecological communities that have only recently been listed
- some terrestrial species that overfly the Commonwealth marine area
- migratory species that are very widespread, vagrant, or only occur in small numbers

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

- non-threatened seabirds which have only been mapped for recorded breeding sites
- seals which have only been mapped for breeding sites near the Australian continent

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

Coordinates

 $-14.758882\ 129.178077, -13.960657\ 128.826514, -13.768665\ 128.606788, -12.484784\ 128.496924, -11.183724\ 127.563087, -10.460737\ 128.233253, -9.746889\ 129.518653, -9.660256\ 130.254737, -9.779371\ 130.935889, -9.280976\ 132.528907, -8.901286\ 133.385841, -9.411062\ 134.858008, -9.129149\ 135.473243, -10.363488\ 138.582374, -11.129831\ 139.395362, -10.190527\ 141.339942, -10.806262\ 141.317969, -10.817053\ 141.922217, -11.10827\ 142.087012, -12.527687\ 141.559669, -13.330764\ 141.515723, -13.960657\ 141.40586, -15.045535\ 141.570655, -15.945419\ 141.317969, -17.22994\ 140.823585, -17.513041\ 140.53794, -17.659661\ 140.032569, -17.429205\ 139.593116, -16.630864\ 139.966651, -16.409675\ 139.812842, -16.177683\ 139.208594, -16.820251\ 138.966895, -15.924291\ 137.165137, -15.575354\ 137.132178, -15.458909\ 136.934424, -15.289418\ 136.11045, -14.822615\ 135.45127, -14.269641\ 135.846778, -14.418655\ 136.97837, -13.608551\ 137.011329, -12.784952\ 136.780616, -12.388227\ 137.055274, -10.957305\ 136.76963, -10.957305\ 136.703712, -11.399198\ 136.407081, -11.679068\ 135.824805, -11.904912\ 135.616065, -11.947909\ 134.473487, -11.679068\ 133.869239, -11.700585\ 133.50669, -11.431505\ 133.528663, -11.442273\ 133.363868, -11.64679\ 133.254005, -11.313028\ 132.979346, -11.04358\ 133.067237, -10.90337\ 132.583839, -11.151389\ 131.221534, -11.3238\ 130.782081, -11.054363\ 130.287696, -11.474575\ 130.111915, -11.765126\ 129.958106, -11.947909\ 130.067969, -11.894162\ 130.760108, -12.119827\ 130.913917, -12.441874\ 130.474464, -12.870649\ 130.100928, -13.939333\ 129.584571, -13.971319\ 129.419776, -14.47185\ 129.28794, -14.631358\ 129.507667, -14.843856\ 129.452735, -14.769505\ 129.178077, -14.758882\ 129.178077$

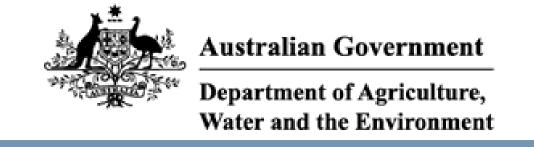
Acknowledgements

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

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

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

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



EPBC Act Protected Matters Report

This report provides general guidance on matters of national environmental significance and other matters protected by the EPBC Act in the area you have selected.

Information on the coverage of this report and qualifications on data supporting this report are contained in the caveat at the end of the report.

Information is available about <u>Environment Assessments</u> and the EPBC Act including significance guidelines, forms and application process details.

Report created: 10/05/21 13:07:00

Summary Details

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

Caveat

Acknowledgements



This map may contain data which are ©Commonwealth of Australia (Geoscience Australia), ©PSMA 2015

Coordinates
Buffer: 1.0Km



Summary

Matters of National Environmental Significance

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

World Heritage Properties:	2
National Heritage Places:	5
Wetlands of International Importance:	2
Great Barrier Reef Marine Park:	None
Commonwealth Marine Area:	2
Listed Threatened Ecological Communities:	1
Listed Threatened Species:	70
Listed Migratory Species:	84

Other Matters Protected by the EPBC Act

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

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

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

Commonwealth Land:	None
Commonwealth Heritage Places:	1
Listed Marine Species:	149
Whales and Other Cetaceans:	34
Critical Habitats:	None
Commonwealth Reserves Terrestrial:	None
Australian Marine Parks:	17

Extra Information

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

State and Territory Reserves:	10
Regional Forest Agreements:	None
Invasive Species:	23
Nationally Important Wetlands:	3
Key Ecological Features (Marine)	5

Details

Matters of National Environmental Significance

World Heritage Properties		[Resource Information]
Name	State	Status
Shark Bay, Western Australia	WA	Declared property
The Ningaloo Coast	WA	Declared property
National Heritage Properties		[Resource Information]
Name	State	Status
Natural		
Shark Bay, Western Australia	WA	Listed place
The Ningaloo Coast	WA	Listed place
The West Kimberley	WA	Listed place
Indigenous		
Dampier Archipelago (including Burrup Peninsula)	WA	Listed place
Historic		
Dirk Hartog Landing Site 1616 - Cape Inscription Area	WA	Listed place
Wetlands of International Importance (Ramsar)		[Resource Information]
Name		Proximity
Eighty-mile beach		Within Ramsar site
Ord river floodplain		Within 10km of Ramsar
Commonwealth Marine Area		[Resource Information]

Approval is required for a proposed activity that is located within the Commonwealth Marine Area which has, will have, or is likely to have a significant impact on the environment. Approval may be required for a proposed action taken outside the Commonwealth Marine Area but which has, may have or is likely to have a significant impact on the environment in the Commonwealth Marine Area. Generally the Commonwealth Marine Area stretches from three nautical miles to two hundred nautical miles from the coast.

Name

EEZ and Territorial Sea **Extended Continental Shelf**

Marine Regions [Resource Information]

If you are planning to undertake action in an area in or close to the Commonwealth Marine Area, and a marine bioregional plan has been prepared for the Commonwealth Marine Area in that area, the marine bioregional plan may inform your decision as to whether to refer your proposed action under the EPBC Act.

Name

North-west

Curlew Sandpiper [856]

Listed Threatened Ecological Communities

[Resource Information]

Species or species

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

Name	Status	Type of Presence
Monsoon vine thickets on the coastal sand dunes of Dampier Peninsula	Endangered	Community likely to occur within area
Listed Threatened Species		[Resource Information]
Name	Status	Type of Presence
Birds		
Anous tenuirostris melanops		
Australian Lesser Noddy [26000]	Vulnerable	Foraging, feeding or related behaviour known to occur within area
Calidris canutus		
Red Knot, Knot [855]	Endangered	Species or species habitat known to occur within area
Calidris ferruginea		

Critically Endangered

Name	Status	Type of Presence
	Otatus	habitat known to occur within area
Calidris tenuirostris Great Knot [862]	Critically Endangered	Species or species habitat known to occur within area
Charadrius leschenaultii		
Greater Sand Plover, Large Sand Plover [877]	Vulnerable	Species or species habitat known to occur within area
Diomedea amsterdamensis		
Amsterdam Albatross [64405]	Endangered	Species or species habitat likely to occur within area
<u>Diomedea exulans</u>		
Wandering Albatross [89223]	Vulnerable	Species or species habitat may occur within area
Erythrotriorchis radiatus		
Red Goshawk [942]	Vulnerable	Species or species habitat likely to occur within area
Erythrura gouldiae		
Gouldian Finch [413]	Endangered	Species or species habitat known to occur within area
Falco hypoleucos		
Grey Falcon [929]	Vulnerable	Species or species habitat known to occur within area
Falcunculus frontatus whitei		
Crested Shrike-tit (northern), Northern Shrike-tit [26013]	Vulnerable	Species or species habitat likely to occur within area
Geophaps smithii blaauwi		
Partridge Pigeon (western) [66501]	Vulnerable	Species or species habitat likely to occur within area
Leipoa ocellata		
Malleefowl [934]	Vulnerable	Species or species habitat likely to occur within area
<u>Limosa lapponica baueri</u>		
Nunivak Bar-tailed Godwit, Western Alaskan Bar-tailed Godwit [86380]	Vulnerable	Species or species habitat may occur within area
Limosa lapponica menzbieri Northern Siberian Bar-tailed Godwit, Russkoye Bar-	Critically Endangered	Species or species habitat
tailed Godwit [86432]		known to occur within area
Macronectes giganteus Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area
		•
Macronectes halli Northern Giant Petrel [1061]	Vulnerable	Species or species habitat may occur within area
Malurus leucopterus leucopterus White-winged Fairy-wren (Dirk Hartog Island), Dirk	Vulnerable	Species or species habitat
Hartog Black-and-White Fairy-wren [26004]		likely to occur within area
Numenius madagascariensis		
Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat known to occur within area
Papasula abbotti		
Abbott's Booby [59297]	Endangered	Species or species habitat may occur within area
Pezoporus occidentalis		
Night Parrot [59350]	Endangered	Species or species habitat may occur within

Name	Status	Type of Presence
		area
Pterodroma mollis Soft-plumaged Petrel [1036]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Rostratula australis Australian Painted Snipe [77037]	Endangered	Species or species habitat likely to occur within area
Sternula nereis nereis Australian Fairy Tern [82950]	Vulnerable	Breeding known to occur within area
Thalassarche carteri Indian Yellow-nosed Albatross [64464]	Vulnerable	Foraging, feeding or related behaviour may occur within area
Thalassarche cauta Shy Albatross [89224]	Endangered	Species or species habitat may occur within area
<u>Thalassarche impavida</u> Campbell Albatross, Campbell Black-browed Albatross [64459]	Vulnerable	Species or species habitat may occur within area
Thalassarche melanophris Black-browed Albatross [66472]	Vulnerable	Species or species habitat may occur within area
Thalassarche steadi White-capped Albatross [64462]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Tyto novaehollandiae kimberli Masked Owl (northern) [26048]	Vulnerable	Species or species habitat likely to occur within area
Mammals		
Balaenoptera borealis Sei Whale [34]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Balaenoptera musculus Blue Whale [36]	Endangered	Migration route known to occur within area
Balaenoptera physalus Fin Whale [37]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Bettongia lesueur lesueur Burrowing Bettong (Shark Bay), Boodie [66659]	Vulnerable	Species or species habitat likely to occur within area
Bettongia penicillata ogilbyi Woylie [66844]	Endangered	Species or species habitat likely to occur within area
Conilurus penicillatus Brush-tailed Rabbit-rat, Brush-tailed Tree-rat, Pakooma [132]	Vulnerable	Species or species habitat may occur within area
Dasyurus geoffroii Chuditch, Western Quoll [330]	Vulnerable	Species or species habitat may occur within area
Dasyurus hallucatus Northern Quoll, Digul [Gogo-Yimidir], Wijingadda [Dambimangari], Wiminji [Martu] [331]	Endangered	Species or species habitat known to occur within area
Eubalaena australis Southern Right Whale [40]	Endangered	Species or species habitat

Name	Status	Type of Presence
Isoodon auratus auratus Golden Bandicoot (mainland) [66665]	Vulnerable	Species or species habitat likely to occur within area
Lagostrophus fasciatus fasciatus Banded Hare-wallaby, Merrnine, Marnine, Munning [66664]	Vulnerable	Translocated population known to occur within area
Leporillus conditor Wopilkara, Greater Stick-nest Rat [137]	Vulnerable	Translocated population known to occur within area
Macroderma gigas Ghost Bat [174]	Vulnerable	Species or species habitat known to occur within area
Macrotis lagotis Greater Bilby [282]	Vulnerable	Species or species habitat likely to occur within area
Megaptera novaeangliae Humpback Whale [38] Neophoca cinerea	Vulnerable	Breeding known to occur within area
Australian Sea-lion, Australian Sea Lion [22]	Endangered	Species or species habitat may occur within area
Perameles bougainville bougainville Western Barred Bandicoot (Shark Bay) [66631]	Endangered	Translocated population known to occur within area
Petrogale concinna monastria Nabarlek (Kimberley) [87607]	Endangered	Species or species habitat known to occur within area
Phascogale tapoatafa kimberleyensis Kimberley brush-tailed phascogale, Brush-tailed Phascogale (Kimberley) [88453]	Vulnerable	Species or species habitat likely to occur within area
Rhinonicteris aurantia (Pilbara form) Pilbara Leaf-nosed Bat [82790]	Vulnerable	Species or species habitat may occur within area
Saccolaimus saccolaimus nudicluniatus Bare-rumped Sheath-tailed Bat, Bare-rumped Sheathtail Bat [66889]	Vulnerable	Species or species habitat likely to occur within area
Xeromys myoides Water Mouse, False Water Rat, Yirrkoo [66]	Vulnerable	Species or species habitat may occur within area
Reptiles		
Aipysurus apraefrontalis Short-nosed Seasnake [1115]	Critically Endangered	Species or species habitat known to occur within area
Aipysurus foliosquama Leaf-scaled Seasnake [1118]	Critically Endangered	Species or species habitat likely to occur within area
Caretta caretta Loggerhead Turtle [1763]	Endangered	Breeding known to occur within area
Chelonia mydas Green Turtle [1765]	Vulnerable	Breeding known to occur within area
Dermochelys coriacea Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Foraging, feeding or related behaviour known to occur within area
Egernia stokesii badia Western Spiny-tailed Skink, Baudin Island Spiny-tailed Skink [64483]	Endangered	Species or species habitat likely to occur

Name	Status	Type of Presence
1 tarrio	Clarao	within area
Eretmochelys imbricata		Within area
Hawksbill Turtle [1766]	Vulnerable	Breeding known to occur
Trawksbiii Turtic [1700]	Valificiable	within area
<u>Lepidochelys olivacea</u>		Within area
Olive Ridley Turtle, Pacific Ridley Turtle [1767]	Endangered	Foraging, feeding or related
enverticity rather, rading rather [1701]		behaviour known to occur
		within area
<u>Lerista nevinae</u>		
Nevin's Slider [85296]	Endangered	Species or species habitat
		known to occur within area
<u>Liasis olivaceus barroni</u>		
Olive Python (Pilbara subspecies) [66699]	Vulnerable	Species or species habitat
		likely to occur within area
Natator depressus		
Flatback Turtle [59257]	Vulnerable	Breeding known to occur
rational ratio [00207]	Valificiable	within area
Sharks		
Carcharias taurus (west coast population)		
Grey Nurse Shark (west coast population) [68752]	Vulnerable	Species or species habitat
(known to occur within area
Carcharodon carcharias		
White Shark, Great White Shark [64470]	Vulnerable	Species or species habitat
		known to occur within area
Objection are winds:		
Glyphis garricki Northern Diver Charle Nove Cuinea Diver Charle	Endongorod	Charles or angeles habitat
Northern River Shark, New Guinea River Shark [82454]	Endangered	Species or species habitat known to occur within area
[02434]		Known to occur within area
Pristis clavata		
Dwarf Sawfish, Queensland Sawfish [68447]	Vulnerable	Breeding known to occur
		within area
Pristis pristis		
Freshwater Sawfish, Largetooth Sawfish, River	Vulnerable	Species or species habitat
Sawfish, Leichhardt's Sawfish, Northern Sawfish		known to occur within area
[60756]		
Pristis zijsron		
Green Sawfish, Dindagubba, Narrowsnout Sawfish	Vulnerable	Breeding known to occur
[68442]		within area
Rhincodon typus Whole Shark [66690]	Vulnerable	Foreging fooding or related
Whale Shark [66680]	vuirierable	Foraging, feeding or related
		hehaviour known to occur
		behaviour known to occur within area
		behaviour known to occur within area
Listed Migratory Species		within area
Listed Migratory Species * Species is listed under a different scientific name on	the EPBC Act - Threate	within area [Resource Information]
	the EPBC Act - Threate Threatened	within area [Resource Information]
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* Species is listed under a different scientific name on Name Migratory Marine Birds		within area [Resource Information] ened Species list.
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* Species is listed under a different scientific name on Name Migratory Marine Birds Anous stolidus Common Noddy [825]		within area [Resource Information] ened Species list. Type of Presence Species or species habitat
* Species is listed under a different scientific name on Name Migratory Marine Birds Anous stolidus Common Noddy [825] Apus pacificus		[Resource Information] ened Species list. Type of Presence Species or species habitat likely to occur within area
* Species is listed under a different scientific name on Name Migratory Marine Birds Anous stolidus Common Noddy [825]		[Resource Information] ened Species list. Type of Presence Species or species habitat likely to occur within area Species or species habitat
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* Species is listed under a different scientific name on Name Migratory Marine Birds Anous stolidus Common Noddy [825] Apus pacificus Fork-tailed Swift [678] Ardenna carneipes Flesh-footed Shearwater, Fleshy-footed Shearwater		[Resource Information] ened Species list. Type of Presence Species or species habitat likely to occur within area Species or species habitat likely to occur within area Species or species habitat likely to occur within area
* Species is listed under a different scientific name on Name Migratory Marine Birds Anous stolidus Common Noddy [825] Apus pacificus Fork-tailed Swift [678] Ardenna carneipes		[Resource Information] ened Species list. Type of Presence Species or species habitat likely to occur within area Species or species habitat likely to occur within area
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* Species is listed under a different scientific name on Name Migratory Marine Birds Anous stolidus Common Noddy [825] Apus pacificus Fork-tailed Swift [678] Ardenna carneipes Flesh-footed Shearwater, Fleshy-footed Shearwater [82404] Ardenna pacifica		[Resource Information] ened Species list. Type of Presence Species or species habitat likely to occur within area Species or species habitat likely to occur within area Species or species habitat likely to occur within area
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* Species is listed under a different scientific name on Name Migratory Marine Birds Anous stolidus Common Noddy [825] Apus pacificus Fork-tailed Swift [678] Ardenna carneipes Flesh-footed Shearwater, Fleshy-footed Shearwater [82404] Ardenna pacifica Wedge-tailed Shearwater [84292] Calonectris leucomelas		[Resource Information] ened Species list. Type of Presence Species or species habitat likely to occur within area Species or species habitat likely to occur within area Species or species habitat likely to occur within area Breeding known to occur within area
* Species is listed under a different scientific name on Name Migratory Marine Birds Anous stolidus Common Noddy [825] Apus pacificus Fork-tailed Swift [678] Ardenna carneipes Flesh-footed Shearwater, Fleshy-footed Shearwater [82404] Ardenna pacifica Wedge-tailed Shearwater [84292] Calonectris leucomelas Streaked Shearwater [1077]		[Resource Information] ened Species list. Type of Presence Species or species habitat likely to occur within area Species or species habitat likely to occur within area Species or species habitat likely to occur within area Breeding known to occur within area Species or species habitat
* Species is listed under a different scientific name on Name Migratory Marine Birds Anous stolidus Common Noddy [825] Apus pacificus Fork-tailed Swift [678] Ardenna carneipes Flesh-footed Shearwater, Fleshy-footed Shearwater [82404] Ardenna pacifica Wedge-tailed Shearwater [84292] Calonectris leucomelas Streaked Shearwater [1077]	Threatened	I Resource Information I Rened Species list. Type of Presence Species or species habitat likely to occur within area Species or species habitat likely to occur within area Species or species habitat likely to occur within area Breeding known to occur within area Species or species habitat known to occur within area
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Name	Threatened	Type of Presence
Diomedea exulans	Till Gaterioa	habitat likely to occur within area
Wandering Albatross [89223]	Vulnerable	Species or species habitat may occur within area
Fregata ariel Lesser Frigatebird, Least Frigatebird [1012]		Species or species habitat known to occur within area
Fregata minor Great Frigatebird, Greater Frigatebird [1013]		Species or species habitat likely to occur within area
Hydroprogne caspia Caspian Tern [808]		Breeding known to occur within area
Macronectes giganteus Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area
Macronectes halli Northern Giant Petrel [1061]	Vulnerable	Species or species habitat may occur within area
Onychoprion anaethetus Bridled Tern [82845]		Breeding known to occur within area
Phaethon lepturus White-tailed Tropicbird [1014]		Foraging, feeding or related behaviour likely to occur within area
Sterna dougallii Roseate Tern [817]		Breeding likely to occur within area
Sternula albifrons Little Tern [82849]		Breeding known to occur within area
Sula leucogaster Brown Booby [1022]		Breeding known to occur within area
Sula sula Red-footed Booby [1023]		Breeding known to occur within area
Thalassarche carteri Indian Yellow-nosed Albatross [64464]	Vulnerable	Foraging, feeding or related behaviour may occur within area
Thalassarche cauta Shy Albatross [89224]	Endangered	Species or species habitat may occur within area
<u>Thalassarche impavida</u> Campbell Albatross, Campbell Black-browed Albatross [64459]	Vulnerable	Species or species habitat may occur within area
Thalassarche melanophris Black-browed Albatross [66472]	Vulnerable	Species or species habitat may occur within area
Thalassarche steadi White-capped Albatross [64462]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Migratory Marine Species		
Anoxypristis cuspidata Narrow Sawfish, Knifetooth Sawfish [68448]		Species or species habitat likely to occur within area
Balaena glacialis australis Southern Right Whale [75529]	Endangered*	Species or species habitat likely to occur within area

Name	Threatened	Type of Presence
Balaenoptera bonaerensis		71
Antarctic Minke Whale, Dark-shoulder Minke Whale [67812]		Species or species habitat likely to occur within area
Balaenoptera borealis Sei Whale [34]	Vulnerable	Foraging, feeding or related behaviour likely to occur
Balaenoptera edeni Bryde's Whale [35]		within area Species or species habitat likely to occur within area
Balaenoptera musculus Blue Whale [36]	Endangered	Migration route known to occur within area
Balaenoptera physalus Fin Whale [37]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Carcharhinus longimanus Oceanic Whitetip Shark [84108]		Species or species habitat likely to occur within area
Carcharodon carcharias White Shark, Great White Shark [64470]	Vulnerable	Species or species habitat known to occur within area
Caretta caretta Loggerhead Turtle [1763]	Endangered	Breeding known to occur within area
Chelonia mydas Green Turtle [1765]	Vulnerable	Breeding known to occur within area
Crocodylus porosus Salt-water Crocodile, Estuarine Crocodile [1774]		Species or species habitat likely to occur within area
Dermochelys coriacea Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Foraging, feeding or related behaviour known to occur within area
Dugong dugon Dugong [28]		Breeding known to occur within area
Eretmochelys imbricata Hawksbill Turtle [1766] Isurus oxyrinchus	Vulnerable	Breeding known to occur within area
Shortfin Mako, Mako Shark [79073]		Species or species habitat likely to occur within area
Isurus paucus Longfin Mako [82947]		Species or species habitat likely to occur within area
Lamna nasus Porbeagle, Mackerel Shark [83288]		Species or species habitat may occur within area
Lepidochelys olivacea Olive Ridley Turtle, Pacific Ridley Turtle [1767]	Endangered	Foraging, feeding or related behaviour known to occur within area
Manta alfredi Reef Manta Ray, Coastal Manta Ray, Inshore Manta Ray, Prince Alfred's Ray, Resident Manta Ray [84994]		Species or species habitat known to occur within area
Manta birostris Giant Manta Ray, Chevron Manta Ray, Pacific Manta Ray, Pelagic Manta Ray, Oceanic Manta Ray [84995]		Species or species habitat known to occur within area
Megaptera novaeangliae Humpback Whale [38]	Vulnerable	Breeding known to occur

Name	Threatened	Type of Presence
		within area
Natator depressus	\/la a va b la	Drag diag kanaya ta angur
Flatback Turtle [59257]	Vulnerable	Breeding known to occur within area
Orcaella heinsohni		
Australian Snubfin Dolphin [81322]		Species or species habitat
		known to occur within area
Orcinus orca		
Killer Whale, Orca [46]		Species or species habitat
		may occur within area
Physeter macrocephalus		
Sperm Whale [59]		Species or species habitat
		may occur within area
Pristis clavata		
Dwarf Sawfish, Queensland Sawfish [68447]	Vulnerable	Breeding known to occur
Pristis pristis		within area
Freshwater Sawfish, Largetooth Sawfish, River	Vulnerable	Species or species habitat
Sawfish, Leichhardt's Sawfish, Northern Sawfish		known to occur within area
[60756] Pristis zijsron		
Green Sawfish, Dindagubba, Narrowsnout Sawfish	Vulnerable	Breeding known to occur
[68442]		within area
Rhincodon typus Whale Shark [66680]	Vulnerable	Foraging, feeding or related
	· amerasio	behaviour known to occur
Souce chinonois		within area
Sousa chinensis Indo-Pacific Humpback Dolphin [50]		Breeding known to occur
		within area
Tursiops aduncus (Arafura/Timor Sea populations)		On a sing an angeling babitat
Spotted Bottlenose Dolphin (Arafura/Timor Sea populations) [78900]		Species or species habitat known to occur within area
,		
Migratory Terrestrial Species Cecropis daurica		
Red-rumped Swallow [80610]		Species or species habitat
		may occur within area
<u>Cuculus optatus</u>		
Oriental Cuckoo, Horsfield's Cuckoo [86651]		Species or species habitat
		may occur within area
Hirundo rustica		
Barn Swallow [662]		Species or species habitat
		may occur within area
Motacilla cinerea		
Grey Wagtail [642]		Species or species habitat
		may occur within area
Motacilla flava		
Yellow Wagtail [644]		Species or species habitat
		likely to occur within area
Migratory Wetlands Species		
Acrocephalus orientalis Oriental Bood Warbler [50570]		Charles at an asias balling
Oriental Reed-Warbler [59570]		Species or species habitat may occur within area
A - ddd - lag ag 1		•
Actitis hypoleucos Common Sandpiper [59309]		Species or species habitat
σοιπποπ σαπαριρεί [σσσσσ]		known to occur within area
A way a via inta way a		
Arenaria interpres Puddy Turnstone (972)		
KUOOV TUHISIONE 10771		Species or species habitat
Ruddy Turnstone [872]		Species or species habitat known to occur within area

Name	Threatened	Type of Presence
Calidris acuminata Sharp-tailed Sandpiper [874]		Species or species habitat known to occur within area
Calidris alba Sanderling [875]		Species or species habitat known to occur within area
Calidris canutus Red Knot, Knot [855]	Endangered	Species or species habitat known to occur within area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area
Calidris melanotos Pectoral Sandpiper [858]		Species or species habitat known to occur within area
Calidris ruficollis Red-necked Stint [860]		Species or species habitat known to occur within area
Calidris tenuirostris Great Knot [862]	Critically Endangered	Species or species habitat known to occur within area
Charadrius leschenaultii Greater Sand Plover, Large Sand Plover [877]	Vulnerable	Species or species habitat known to occur within area
Charadrius veredus Oriental Plover, Oriental Dotterel [882]		Species or species habitat may occur within area
Glareola maldivarum Oriental Pratincole [840]		Species or species habitat may occur within area
Limosa lapponica Bar-tailed Godwit [844]		Species or species habitat known to occur within area
Limosa limosa Black-tailed Godwit [845]		Species or species habitat known to occur within area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat known to occur within area
Numenius phaeopus Whimbrel [849]		Species or species habitat known to occur within area
Pandion haliaetus Osprey [952]		Breeding known to occur within area
Pluvialis squatarola Grey Plover [865]		Species or species habitat known to occur within area
Triage brevings		Breeding known to occur within area
Tringa brevipes Grey-tailed Tattler [851]		Species or species habitat known to occur within area
Tringa glareola Wood Sandpiper [829]		Species or species habitat known to occur

Name	Threatened	Type of Presence
Tringa nebularia		within area
Common Greenshank, Greenshank [832]		Species or species habitat known to occur within area
Xenus cinereus		

Species or species habitat known to occur within area

Species or species habitat known to occur within area

Species or species

Terek Sandpiper [59300]

Sharp-tailed Sandpiper [874]

Calidris alba

Sanderling [875]

Commonwealth Heritage Places			[Resource Information]
Name		State	Status
Natural			
Ningaloo Marine Area - Commonwealth Waters		WA	Listed place
Listed Marine Species			[Resource Information]
* Species is listed under a different scientific name or	n the EPBC Act	t - Threaten	ed Species list.
Name	Threatened	d	Type of Presence
Birds			
Acrocephalus orientalis			
Oriental Reed-Warbler [59570]			Species or species habitat may occur within area
Actitis hypoleucos			
Common Sandpiper [59309]			Species or species habitat known to occur within area
Anous stolidus			
Common Noddy [825]			Species or species habitat likely to occur within area
Anous tenuirostris melanops			
Australian Lesser Noddy [26000]	Vulnerable		Foraging, feeding or related behaviour known to occur within area
Anseranas semipalmata			On a sing on an asing babitat
Magpie Goose [978]			Species or species habitat may occur within area
Apus pacificus			
Fork-tailed Swift [678]			Species or species habitat likely to occur within area
Ardea ibis			
Cattle Egret [59542]			Species or species habitat may occur within area
Arenaria interpres			
Ruddy Turnstone [872]			Species or species habitat known to occur within area
Calidris acuminata			

Name	Threatened	Type of Presence
		habitat known to occur
		within area
Calidris canutus		
Red Knot, Knot [855]	Endangered	Species or species habitat known to occur within area
		known to occur within area
Calidris ferruginea		
Curlew Sandpiper [856]	Critically Endangered	Species or species habitat
		known to occur within area
Calidria malanatas		
Calidris melanotos Destaral Candainar (959)		Chasias ar angeige habitat
Pectoral Sandpiper [858]		Species or species habitat known to occur within area
		KITOWIT TO OCCUI WITHIN ATEA
Calidris ruficollis		
Red-necked Stint [860]		Species or species habitat
		known to occur within area
Crost Knot 1963	Critically Endangered	Chasias ar angeise habitat
Great Knot [862]	Critically Endangered	Species or species habitat known to occur within area
		Known to occur within area
Calonectris leucomelas		
Streaked Shearwater [1077]		Species or species habitat
		known to occur within area
Catharacta skua		
Great Skua [59472]		Species or species habitat
		may occur within area
Charadrius leschenaultii		
Greater Sand Plover, Large Sand Plover [877]	Vulnerable	Species or species habitat
, 0		known to occur within area
Charadrius ruficapillus		
Red-capped Plover [881]		Species or species habitat known to occur within area
		known to occur within area
Charadrius veredus		
Oriental Plover, Oriental Dotterel [882]		Species or species habitat
		may occur within area
Chrysococcyx osculans Plack pared Cycles [705]		Chasias ar anasias habitat
Black-eared Cuckoo [705]		Species or species habitat likely to occur within area
		likely to occur within area
Diomedea amsterdamensis		
Amsterdam Albatross [64405]	Endangered	Species or species habitat
	•	likely to occur within area
D' 1		
<u>Diomedea exulans</u>	V/vdm a mala la	On a since on an aciene habitat
Wandering Albatross [89223]	Vulnerable	Species or species habitat
		may occur within area
Fregata ariel		
Lesser Frigatebird, Least Frigatebird [1012]		Species or species habitat
		known to occur within area
Encount of the contract		
Fregata minor Creat Frigatabind Creater Frigatabind (4042)		On a since ou an a since he bit at
Great Frigatebird, Greater Frigatebird [1013]		Species or species habitat
		likely to occur within area
Glareola maldivarum		
Oriental Pratincole [840]		Species or species habitat
		may occur within area
Heliopotus laucamatan		
Haliaeetus leucogaster White bellied See Feele [042]		Chasias ar ansaise le el 16-6
White-bellied Sea-Eagle [943]		Species or species habitat known to occur within area
		MIOWIT TO OCCUP WILLIIII AIEA
Heteroscelus brevipes		
Grey-tailed Tattler [59311]		Species or species habitat
		known to occur

Name	Threatened	Type of Presence
		within area
Himantopus himantopus		
Pied Stilt, Black-winged Stilt [870]		Species or species habitat
riod Still, Black Willged Still [676]		known to occur within area
Hirundo daurica		
Red-rumped Swallow [59480]		Species or species habitat
		may occur within area
Hirundo rustica		
Barn Swallow [662]		Species or species habitat
		may occur within area
Larus novaehollandiae		
Silver Gull [810]		Breeding known to occur
		within area
<u>Larus pacificus</u>		maini area
Pacific Gull [811]		Foraging, feeding or related
,		behaviour known to occur
		within area
<u>Limosa lapponica</u>		
Bar-tailed Godwit [844]		Species or species habitat
		known to occur within area
<u>Limosa limosa</u>		
Black-tailed Godwit [845]		Species or species habitat
		known to occur within area
Macronectes giganteus		
	Endangered	Species or species habitat
Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area
		may occur within area
Macronectes halli		
Northern Giant Petrel [1061]	Vulnerable	Species or species habitat
		may occur within area
		•
Merops ornatus		
Rainbow Bee-eater [670]		Species or species habitat
		may occur within area
Matacilla cinaras		
Motacilla cinerea		Consider or appealed habitat
Grey Wagtail [642]		Species or species habitat
		may occur within area
Motacilla flava		
Yellow Wagtail [644]		Species or species habitat
· oo.v · vag.a [o · ·]		likely to occur within area
		•
Numenius madagascariensis		
Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat
		known to occur within area
Numenius phaeopus		
Whimbrel [849]		Species or species habitat
		known to occur within area
Pandion haliaetus		
Osprey [952]		Breeding known to occur
		within area
Papasula abbotti		
Abbott's Booby [59297]	Endangered	Species or species habitat
	9	may occur within area
Phaethon lepturus		
White-tailed Tropicbird [1014]		Foraging, feeding or related
		behaviour likely to occur
Direciplia agreeta rala		within area
Pluvialis squatarola Crov Player [965]		Opening on an artist 1 -1 'f f
Grey Plover [865]		Species or species habitat
		known to occur within area
Pterodroma macroptera		
Great-winged Petrel [1035]		Foraging, feeding or
		-

Name	Threatened	Type of Presence
Pterodroma mollis		related behaviour known to occur within area
Soft-plumaged Petrel [1036]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Puffinus assimilis Little Shearwater [59363]		Foraging, feeding or related behaviour known to occur within area
Puffinus carneipes Flesh-footed Shearwater, Fleshy-footed Shearwater [1043]		Species or species habitat likely to occur within area
Puffinus pacificus Wedge-tailed Shearwater [1027]		Breeding known to occur within area
Recurvirostra novaehollandiae Red-necked Avocet [871]		Species or species habitat known to occur within area
Rostratula benghalensis (sensu lato) Painted Snipe [889]	Endangered*	Species or species habitat likely to occur within area
Sterna albifrons Little Tern [813]		Breeding known to occur within area
Sterna anaethetus Bridled Tern [814]		Breeding known to occur within area
Sterna bengalensis Lesser Crested Tern [815] Sterna bergii		Breeding known to occur within area
Crested Tern [816] Sterna caspia		Breeding known to occur within area
Caspian Tern [59467] Sterna dougallii		Breeding known to occur within area
Roseate Tern [817] Sterna fuscata		Breeding likely to occur within area
Sooty Tern [794] Sterna nereis		Breeding known to occur within area
Fairy Tern [796] Sula leucogaster		Breeding known to occur within area
Brown Booby [1022] Sula sula		Breeding known to occur within area
Red-footed Booby [1023] <u>Thalassarche carteri</u>		Breeding known to occur within area
Indian Yellow-nosed Albatross [64464]	Vulnerable	Foraging, feeding or related behaviour may occur within area
Thalassarche cauta Shy Albatross [89224]	Endangered	Species or species habitat may occur within area
<u>Thalassarche impavida</u> Campbell Albatross, Campbell Black-browed Albatross [64459]	Vulnerable	Species or species habitat may occur within area
Thalassarche melanophris Black-browed Albatross [66472]	Vulnerable	Species or species habitat may occur within area

Name	Threatened	Type of Presence
	THEALENEU	Type of Flesence
Thalassarche steadi White-capped Albatross [64462]	Vulnerable	Foraging, feeding or related behaviour likely to occur
Tringa glareola		within area
Wood Sandpiper [829]		Species or species habitat known to occur within area
Tringa nebularia		
Common Greenshank, Greenshank [832]		Species or species habitat known to occur within area
Xenus cinereus		
Terek Sandpiper [59300]		Species or species habitat known to occur within area
Fish		
Acentronura larsonae		
Helen's Pygmy Pipehorse [66186]		Species or species habitat may occur within area
Bhanotia fasciolata Corrugated Pipefish, Barbed Pipefish [66188]		Species or species habitat may occur within area
Bulbonaricus brauni		
Braun's Pughead Pipefish, Pug-headed Pipefish [66189]		Species or species habitat may occur within area
Campichthys galei		
Gale's Pipefish [66191]		Species or species habitat may occur within area
Campichthys tricarinatus		
Three-keel Pipefish [66192]		Species or species habitat may occur within area
Choeroichthys brachysoma Pacific Short-bodied Pipefish, Short-bodied Pipefish [66194]		Species or species habitat may occur within area
Choeroichthys latispinosus		
Muiron Island Pipefish [66196]		Species or species habitat may occur within area
Choeroichthys suillus		
Pig-snouted Pipefish [66198]		Species or species habitat may occur within area
Corythoichthys amplexus Fijian Banded Pipefish, Brown-banded Pipefish [66199]		Species or species habitat may occur within area
Correth aighthur flour of againtus		
Corythoichthys flavofasciatus Reticulate Pipefish, Yellow-banded Pipefish, Network Pipefish [66200]		Species or species habitat may occur within area
Corythoichthys intestinalis Australian Messmate Pipefish, Banded Pipefish [66202]		Species or species habitat may occur within area
Conuthaighthus aghultai		
Corythoichthys schultzi Schultz's Pipefish [66205]		Species or species habitat may occur within area
Cosmocampus banneri Roughridge Pipefish [66206]		Species or species habitat may occur within area
Doryrhamphus dactyliophorus Banded Pipefish, Ringed Pipefish [66210]		Species or species habitat may occur within area

Name	Threatened	Type of Presence
<u>Doryrhamphus excisus</u>		
Bluestripe Pipefish, Indian Blue-stripe Pipefish, Pacific Blue-stripe Pipefish [66211]		Species or species habitat may occur within area
Doryrhamphus janssi		
Cleaner Pipefish, Janss' Pipefish [66212]		Species or species habitat may occur within area
Doryrhamphus multiannulatus		
Many-banded Pipefish [66717]		Species or species habitat may occur within area
Doryrhamphus negrosensis		
Flagtail Pipefish, Masthead Island Pipefish [66213]		Species or species habitat may occur within area
Festucalex scalaris		
Ladder Pipefish [66216]		Species or species habitat may occur within area
Filicampus tigris		
Tiger Pipefish [66217]		Species or species habitat may occur within area
Halicampus brocki		
Brock's Pipefish [66219]		Species or species habitat may occur within area
Halicampus dunckeri		
Red-hair Pipefish, Duncker's Pipefish [66220]		Species or species habitat may occur within area
Halicampus grayi		
Mud Pipefish, Gray's Pipefish [66221]		Species or species habitat may occur within area
Halicampus nitidus		
Glittering Pipefish [66224]		Species or species habitat may occur within area
Halicampus spinirostris		
Spiny-snout Pipefish [66225]		Species or species habitat may occur within area
Haliichthys taeniophorus		
Ribboned Pipehorse, Ribboned Seadragon [66226]		Species or species habitat may occur within area
Hippichthys penicillus		
Beady Pipefish, Steep-nosed Pipefish [66231]		Species or species habitat may occur within area
Hippocampus angustus		
Western Spiny Seahorse, Narrow-bellied Seahorse [66234]		Species or species habitat may occur within area
Hippocampus histrix		
Spiny Seahorse, Thorny Seahorse [66236]		Species or species habitat may occur within area
Hippocampus kuda		
Spotted Seahorse, Yellow Seahorse [66237]		Species or species habitat may occur within area
Hippocampus planifrons		
Flat-face Seahorse [66238]		Species or species habitat may occur within area
Hippocampus spinosissimus		
Hedgehog Seahorse [66239]		Species or species habitat may occur within area

Name	Threatened	Type of Presence
Hippocampus trimaculatus Three-spot Seahorse, Low-crowned Seahorse, Flat-faced Seahorse [66720]		Species or species habitat may occur within area
<u>Lissocampus fatiloquus</u> Prophet's Pipefish [66250]		Species or species habitat may occur within area
Micrognathus micronotopterus Tidepool Pipefish [66255]		Species or species habitat may occur within area
Nannocampus subosseus Bonyhead Pipefish, Bony-headed Pipefish [66264]		Species or species habitat may occur within area
Phoxocampus belcheri Black Rock Pipefish [66719]		Species or species habitat may occur within area
Solegnathus hardwickii Pallid Pipehorse, Hardwick's Pipehorse [66272]		Species or species habitat may occur within area
Solegnathus lettiensis Gunther's Pipehorse, Indonesian Pipefish [66273]		Species or species habitat may occur within area
Solenostomus cyanopterus Robust Ghostpipefish, Blue-finned Ghost Pipefish, [66183]		Species or species habitat may occur within area
Stigmatopora argus Spotted Pipefish, Gulf Pipefish, Peacock Pipefish [66276]		Species or species habitat may occur within area
Syngnathoides biaculeatus Double-end Pipehorse, Double-ended Pipehorse, Alligator Pipefish [66279]		Species or species habitat may occur within area
Trachyrhamphus bicoarctatus Bentstick Pipefish, Bend Stick Pipefish, Short-tailed Pipefish [66280]		Species or species habitat may occur within area
Trachyrhamphus longirostris Straightstick Pipefish, Long-nosed Pipefish, Straight Stick Pipefish [66281]		Species or species habitat may occur within area
Mammals		
Dugong dugon Dugong [28]		Breeding known to occur within area
Neophoca cinerea Australian Sea-lion, Australian Sea Lion [22]	Endangered	Species or species habitat may occur within area
Reptiles		
Acalyptophis peronii		
Horned Seasnake [1114]		Species or species habitat may occur within area
Aipysurus apraefrontalis Short-nosed Seasnake [1115]	Critically Endangered	Species or species habitat known to occur within area
Aipysurus duboisii Dubois' Seasnake [1116]		Species or species habitat may occur within area
Aipysurus eydouxii Spine-tailed Seasnake [1117]		Species or species habitat may occur within area

Name	Threatened	Type of Presence
Aipysurus foliosquama		
Leaf-scaled Seasnake [1118]	Critically Endangered	Species or species habitat likely to occur within area
Aipysurus laevis		
Olive Seasnake [1120]		Species or species habitat may occur within area
Aipysurus pooleorum		
Shark Bay Seasnake [66061]		Species or species habitat may occur within area
Aipysurus tenuis		
Brown-lined Seasnake [1121]		Species or species habitat may occur within area
Astrotia stokesii		
Stokes' Seasnake [1122]		Species or species habitat may occur within area
Caretta caretta		
Loggerhead Turtle [1763]	Endangered	Breeding known to occur within area
Chelonia mydas Craen Turtle (1765)	Vulnarabla	Dranding known to occur
Green Turtle [1765] Crocodylus johnstoni	Vulnerable	Breeding known to occur within area
Freshwater Crocodile, Johnston's Crocodile,		Species or species habitat
Johnstone's Crocodile [1773]		may occur within area
<u>Crocodylus porosus</u>		
Salt-water Crocodile, Estuarine Crocodile [1774]		Species or species habitat likely to occur within area
Dermochelys coriacea		
Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Foraging, feeding or related behaviour known to occur within area
Disteira kingii		
Spectacled Seasnake [1123]		Species or species habitat may occur within area
Disteira major		
Olive-headed Seasnake [1124]		Species or species habitat may occur within area
Emydocephalus annulatus		
Turtle-headed Seasnake [1125]		Species or species habitat may occur within area
Enhydrina schistosa		
Beaked Seasnake [1126]		Species or species habitat may occur within area
Ephalophis greyi		
North-western Mangrove Seasnake [1127]		Species or species habitat may occur within area
Eretmochelys imbricata		
Hawksbill Turtle [1766]	Vulnerable	Breeding known to occur within area
Hydrelaps darwiniensis		O
Black-ringed Seasnake [1100]		Species or species habitat may occur within area
Hydrophis atriceps		
Black-headed Seasnake [1101]		Species or species habitat may occur within area
<u>Hydrophis coggeri</u>		
Slender-necked Seasnake [25925]		Species or species habitat may occur within area

Name	Threatened	Type of Presence
Hydrophis czeblukovi		•
Fine-spined Seasnake [59233]		Species or species habitat
Time opinion Constitute [CO2CC]		may occur within area
		may cood. million area
<u>Hydrophis elegans</u>		
Elegant Seasnake [1104]		Species or species habitat
		may occur within area
		•
<u>Hydrophis inornatus</u>		
Plain Seasnake [1107]		Species or species habitat
		may occur within area
Libration in the company of the company		
Hydrophis mcdowelli		
null [25926]		Species or species habitat
		may occur within area
<u>Hydrophis ornatus</u>		
Spotted Seasnake, Ornate Reef Seasnake [1111]		Species or species habitat
Spottod Sodonako, Siriato Nooi Sodonako [1111]		may occur within area
		may cood. million area
<u>Lapemis hardwickii</u>		
Spine-bellied Seasnake [1113]		Species or species habitat
		may occur within area
		-
<u>Lepidochelys olivacea</u>		
Olive Ridley Turtle, Pacific Ridley Turtle [1767]	Endangered	Foraging, feeding or related
		behaviour known to occur
		within area
Natator depressus		D
Flatback Turtle [59257]	Vulnerable	Breeding known to occur
Polomia platurua		within area
Pelamis platurus Vallau balliad Saanaka [1001]		Charles or angeles habitat
Yellow-bellied Seasnake [1091]		Species or species habitat may occur within area
		may occur within area
\A/I = I = = = = I = (I = = A = I = = = = = = = = = = = = = =		
Whales and other Cetaceans		[Resource Information]
Name	Status	Type of Presence
	Status	
Name	Status	
Name Mammals	Status	
Name Mammals Balaenoptera acutorostrata	Status	Type of Presence
Name Mammals Balaenoptera acutorostrata Minke Whale [33]	Status	Type of Presence Species or species habitat
Name Mammals Balaenoptera acutorostrata Minke Whale [33] Balaenoptera bonaerensis	Status	Type of Presence Species or species habitat may occur within area
Name Mammals Balaenoptera acutorostrata Minke Whale [33] Balaenoptera bonaerensis Antarctic Minke Whale, Dark-shoulder Minke Whale	Status	Species or species habitat may occur within area Species or species habitat
Name Mammals Balaenoptera acutorostrata Minke Whale [33] Balaenoptera bonaerensis	Status	Type of Presence Species or species habitat may occur within area
Name Mammals Balaenoptera acutorostrata Minke Whale [33] Balaenoptera bonaerensis Antarctic Minke Whale, Dark-shoulder Minke Whale [67812]	Status	Species or species habitat may occur within area Species or species habitat
Name Mammals Balaenoptera acutorostrata Minke Whale [33] Balaenoptera bonaerensis Antarctic Minke Whale, Dark-shoulder Minke Whale [67812] Balaenoptera borealis		Species or species habitat may occur within area Species or species habitat likely to occur within area
Name Mammals Balaenoptera acutorostrata Minke Whale [33] Balaenoptera bonaerensis Antarctic Minke Whale, Dark-shoulder Minke Whale [67812]	Status	Species or species habitat may occur within area Species or species habitat likely to occur within area Foraging, feeding or related
Name Mammals Balaenoptera acutorostrata Minke Whale [33] Balaenoptera bonaerensis Antarctic Minke Whale, Dark-shoulder Minke Whale [67812] Balaenoptera borealis		Species or species habitat may occur within area Species or species habitat likely to occur within area Foraging, feeding or related behaviour likely to occur
Name Mammals Balaenoptera acutorostrata Minke Whale [33] Balaenoptera bonaerensis Antarctic Minke Whale, Dark-shoulder Minke Whale [67812] Balaenoptera borealis Sei Whale [34]		Species or species habitat may occur within area Species or species habitat likely to occur within area Foraging, feeding or related
Name Mammals Balaenoptera acutorostrata Minke Whale [33] Balaenoptera bonaerensis Antarctic Minke Whale, Dark-shoulder Minke Whale [67812] Balaenoptera borealis		Species or species habitat may occur within area Species or species habitat likely to occur within area Foraging, feeding or related behaviour likely to occur
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Name	Status	Type of Presence
		area
Globicephala macrorhynchus		
Short-finned Pilot Whale [62]		Species or species habitat
		may occur within area
Globicephala melas		
Long-finned Pilot Whale [59282]		Species or species habitat
		may occur within area
<u>Grampus griseus</u>		
Risso's Dolphin, Grampus [64]		Species or species habitat
racco o Bolpinni, Grampac [o i]		may occur within area
		•
Indopacetus pacificus		On saine an en saine habitet
Longman's Beaked Whale [72]		Species or species habitat may occur within area
		may occar within area
Kogia breviceps		
Pygmy Sperm Whale [57]		Species or species habitat
		may occur within area
Kogia simus		
Dwarf Sperm Whale [58]		Species or species habitat
		may occur within area
Laganadalphic hasai		
<u>Lagenodelphis hosei</u> Fraser's Dolphin, Sarawak Dolphin [41]		Species or species habitat
r raser s Bolpriiri, Carawak Bolpriiri [41]		may occur within area
		•
Megaptera novaeangliae	\/ I	
Humpback Whale [38]	Vulnerable	Breeding known to occur within area
Mesoplodon densirostris		within area
Blainville's Beaked Whale, Dense-beaked Whale [74]		Species or species habitat
		may occur within area
Mesoplodon ginkgodens		
Gingko-toothed Beaked Whale, Gingko-toothed		Species or species habitat
Whale, Gingko Beaked Whale [59564]		may occur within area
Mesoplodon grayi Gray's Booked Whale, Scampardown Whale [75]		Species or species habitat
Gray's Beaked Whale, Scamperdown Whale [75]		Species or species habitat may occur within area
Orcaella brevirostris		
Irrawaddy Dolphin [45]		Species or species habitat known to occur within area
		Known to occur within area
Orcinus orca		
Killer Whale, Orca [46]		Species or species habitat
		may occur within area
Peponocephala electra		
Melon-headed Whale [47]		Species or species habitat
		may occur within area
Physeter macrocephalus		
Sperm Whale [59]		Species or species habitat
		may occur within area
Decuderes assestatores		
Pseudorca crassidens Falsa Killer Whale [49]		Charles ar anadica habitat
False Killer Whale [48]		Species or species habitat likely to occur within area
		15 555ai Walii alba
Sousa chinensis		
Indo-Pacific Humpback Dolphin [50]		Breeding known to occur
Stenella attenuata		within area
Spotted Dolphin, Pantropical Spotted Dolphin [51]		Species or species habitat
promote the many transfer on the most polyning [or]		may occur within area
Otomollo os amula a sila a		
Striped Dolphin, Furbrosyne Dolphin [52]		Species or species
Striped Dolphin, Euphrosyne Dolphin [52]		Species or species

Name	Status	Type of Presence
		habitat may occur within area
Stenella longirostris		
Long-snouted Spinner Dolphin [29]		Species or species habitat may occur within area
Steno bredanensis		
Rough-toothed Dolphin [30]		Species or species habitat may occur within area
<u>Tursiops aduncus</u>		
Indian Ocean Bottlenose Dolphin, Spotted Bottlenose Dolphin [68418]		Species or species habitat likely to occur within area
Tursiops aduncus (Arafura/Timor Sea populations)		
Spotted Bottlenose Dolphin (Arafura/Timor Sea populations) [78900]		Species or species habitat known to occur within area
Tursiops truncatus s. str.		
Bottlenose Dolphin [68417]		Species or species habitat may occur within area
Ziphius cavirostris		
Cuvier's Beaked Whale, Goose-beaked Whale [56]		Species or species habitat may occur within area

Australian Marine Parks	[Resource Information
Name	Label
Abrolhos	Habitat Protection Zone (IUCN IV)
Abrolhos	Multiple Use Zone (IUCN VI)
Abrolhos	Special Purpose Zone (IUCN VI)
Argo-Rowley Terrace	Multiple Use Zone (IUCN VI)
Argo-Rowley Terrace	National Park Zone (IUCN II)
Dampier	Habitat Protection Zone (IUCN IV)
Dampier	Multiple Use Zone (IUCN VI)
Eighty Mile Beach	Multiple Use Zone (IUCN VI)
Gascoyne	Habitat Protection Zone (IUCN IV)
Gascoyne	Multiple Use Zone (IUCN VI)
Gascoyne	National Park Zone (IUCN II)
Joseph Bonaparte Gulf	Multiple Use Zone (IUCN VI)
Kimberley	Multiple Use Zone (IUCN VI)
Ningaloo	Recreational Use Zone (IUCN IV)
Oceanic Shoals	Multiple Use Zone (IUCN VI)
Roebuck	Multiple Use Zone (IUCN VI)
Shark Bay	Multiple Use Zone (IUCN VI)

Extra Information

State and Territory Reserves	[Resource Information]
Name	State
Bardi Jawi	WA
Dambimangari	WA
Dambimangari	WA
Dirk Hartog Island	WA
Faure Island	WA
Little Rocky Island	WA
Tent Island	WA
Unnamed WA36913	WA
Unnamed WA36915	WA
Uunguu	WA

Ir	างล	asive	Species								[<u>Re</u>	sour	ce I	<u>nforma</u>	<u>tion</u>
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Weeds reported here are the 20 species of national significance (WoNS), along with other introduced plants that are considered by the States and Territories to pose a particularly significant threat to biodiversity. The following feral animals are reported: Goat, Red Fox, Cat, Rabbit, Pig, Water Buffalo and Cane Toad. Maps from Landscape Health Project, National Land and Water Resouces Audit, 2001.

Name	Status	Type of Presence
Birds		
Columba livia Rock Pigeon, Rock Dove, Domestic Pigeon [803]		Species or species habitat likely to occur within area
Passer montanus Eurasian Tree Sparrow [406]		Species or species habitat likely to occur within area
Streptopelia senegalensis Laughing Turtle-dove, Laughing Dove [781]		Species or species habitat likely to occur within area
Frogs		
Rhinella marina Cane Toad [83218]		Species or species habitat may occur within area
Mammals		
Canis lupus familiaris Domestic Dog [82654]		Species or species habitat likely to occur within area
Capra hircus Goat [2]		Species or species habitat likely to occur within area
Equus asinus Donkey, Ass [4]		Species or species habitat likely to occur within area
Equus caballus Horse [5]		Species or species habitat likely to occur within area
Felis catus Cat, House Cat, Domestic Cat [19]		Species or species habitat likely to occur within area
Mus musculus House Mouse [120]		Species or species habitat likely to occur within area
Oryctolagus cuniculus Rabbit, European Rabbit [128]		Species or species habitat likely to occur within area
Rattus rattus Black Rat, Ship Rat [84]		Species or species habitat likely to occur within area
Sus scrofa Pig [6]		Species or species habitat likely to occur within area
Vulpes vulpes Red Fox, Fox [18]		Species or species habitat likely to occur within area
Plants		
Andropogon gayanus Gamba Grass [66895]		Species or species habitat

Cenchrus ciliaris

Buffel-grass, Black Buffel-grass [20213]

likely to occur within area

Species or species

Name	Status	Type of Presence
		habitat likely to occur within area
Jatropha gossypifolia		arca
Cotton-leaved Physic-Nut, Bellyache Bush, Cotton-leaf Physic Nut, Cotton-leaf Jatropha, Black Physic Nut [7507] Lantana camara		Species or species habitat likely to occur within area
Lantana, Common Lantana, Kamara Lantana, Largeleaf Lantana, Pink Flowered Lantana, Red Flowered Lantana, Red-Flowered Sage, White Sage, Wild Sage [10892] Lycium ferocissimum		Species or species habitat may occur within area
African Boxthorn, Boxthorn [19235]		Species or species habitat likely to occur within area
Opuntia spp.		
Prickly Pears [82753]		Species or species habitat likely to occur within area
Parkinsonia aculeata		
Parkinsonia, Jerusalem Thorn, Jelly Bean Tree, Horse Bean [12301]		Species or species habitat likely to occur within area
Tamarix aphylla		
Athel Pine, Athel Tree, Tamarisk, Athel Tamarisk, Athel Tamarix, Desert Tamarisk, Flowering Cypress, Salt Cedar [16018]		Species or species habitat likely to occur within area
Reptiles Ramphotyphlops braminus		
Flowerpot Blind Snake, Brahminy Blind Snake, Cacing Besi [1258]		Species or species habitat likely to occur within area
Nationally Important Wetlands		[Resource Information]

Nationally Important Wetlands	[Resource Information]
Name	State
Exmouth Gulf East	WA
Hamelin Pool	WA
Shark Bay East	WA

Key Ecological Features (Marine) [Resource Information]

Key Ecological Features are the parts of the marine ecosystem that are considered to be important for the biodiversity or ecosystem functioning and integrity of the Commonwealth Marine Area.

Name	Region
Carbonate bank and terrace system of the Sahul	North-west
Commonwealth waters adjacent to Ningaloo Reef	North-west
Continental Slope Demersal Fish Communities	North-west
Pinnacles of the Bonaparte Basin	North-west
Wallaby Saddle	North-west

Caveat

The information presented in this report has been provided by a range of data sources as acknowledged at the end of the report.

This report is designed to assist in identifying the locations of places which may be relevant in determining obligations under the Environment Protection and Biodiversity Conservation Act 1999. It holds mapped locations of World and National Heritage properties, Wetlands of International and National Importance, Commonwealth and State/Territory reserves, listed threatened, migratory and marine species and listed threatened ecological communities. Mapping of Commonwealth land is not complete at this stage. Maps have been collated from a range of sources at various resolutions.

Not all species listed under the EPBC Act have been mapped (see below) and therefore a report is a general guide only. Where available data supports mapping, the type of presence that can be determined from the data is indicated in general terms. People using this information in making a referral may need to consider the gualifications below and may need to seek and consider other information sources.

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

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

Where very little information is available for species or large number of maps are required in a short time-frame, maps are derived either from 0.04 or 0.02 decimal degree cells; by an automated process using polygon capture techniques (static two kilometre grid cells, alpha-hull and convex hull); or captured manually or by using topographic features (national park boundaries, islands, etc). In the early stages of the distribution mapping process (1999-early 2000s) distributions were defined by degree blocks, 100K or 250K map sheets to rapidly create distribution maps. More reliable distribution mapping methods are used to update these distributions as time permits.

Only selected species covered by the following provisions of the EPBC Act have been mapped:

- migratory and
- marine

The following species and ecological communities have not been mapped and do not appear in reports produced from this database:

- threatened species listed as extinct or considered as vagrants
- some species and ecological communities that have only recently been listed
- some terrestrial species that overfly the Commonwealth marine area
- migratory species that are very widespread, vagrant, or only occur in small numbers

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

- non-threatened seabirds which have only been mapped for recorded breeding sites
- seals which have only been mapped for breeding sites near the Australian continent

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

Coordinates

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Acknowledgements

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

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

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



EPBC Act Protected Matters Report

This report provides general guidance on matters of national environmental significance and other matters protected by the EPBC Act in the area you have selected.

Information on the coverage of this report and qualifications on data supporting this report are contained in the caveat at the end of the report.

Information is available about <u>Environment Assessments</u> and the EPBC Act including significance guidelines, forms and application process details.

Report created: 10/05/21 12:51:00

Summary Details

Matters of NES

Other Matters Protected by the EPBC Act

Extra Information

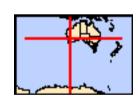
Caveat

<u>Acknowledgements</u>



This map may contain data which are ©Commonwealth of Australia (Geoscience Australia), ©PSMA 2015

Coordinates
Buffer: 1.0Km



Summary

Matters of National Environmental Significance

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

World Heritage Properties:	None
National Heritage Places:	1
Wetlands of International Importance:	4
Great Barrier Reef Marine Park:	None
Commonwealth Marine Area:	2
Listed Threatened Ecological Communities:	3
Listed Threatened Species:	65
Listed Migratory Species:	67

Other Matters Protected by the EPBC Act

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

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

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

Commonwealth Land:	2
Commonwealth Heritage Places:	1
Listed Marine Species:	106
Whales and Other Cetaceans:	40
Critical Habitats:	None
Commonwealth Reserves Terrestrial:	None
Australian Marine Parks:	21

Extra Information

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

State and Territory Reserves:	10
Regional Forest Agreements:	None
Invasive Species:	42
Nationally Important Wetlands:	None
Key Ecological Features (Marine)	8

Details

Matters of National Environmental Significance

National Heritage Properties		[Resource Information]
Name	State	Status
Indigenous		
Cheetup Rock Shelter	WA	Listed place
Wetlands of International Importance (Ramsar)		[Resource Information]
Name		Proximity
Becher point wetlands		Within 10km of Ramsar
Forrestdale and thomsons lakes		Within 10km of Ramsar
Peel-yalgorup system		Within 10km of Ramsar
<u>Vasse-wonnerup system</u>		Within 10km of Ramsar

Commonwealth Marine Area

[Resource Information]

Approval is required for a proposed activity that is located within the Commonwealth Marine Area which has, will have, or is likely to have a significant impact on the environment. Approval may be required for a proposed action taken outside the Commonwealth Marine Area but which has, may have or is likely to have a significant impact on the environment in the Commonwealth Marine Area. Generally the Commonwealth Marine Area stretches from three nautical miles to two hundred nautical miles from the coast.

Name

EEZ and Territorial Sea

Extended Continental Shelf

Marine Regions [Resource Information]

If you are planning to undertake action in an area in or close to the Commonwealth Marine Area, and a marine bioregional plan has been prepared for the Commonwealth Marine Area in that area, the marine bioregional plan may inform your decision as to whether to refer your proposed action under the EPBC Act.

Name

South-west

Listed Threatened Ecological Communities

[Resource Information]

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

Name	Status	Type of Presence
Banksia Woodlands of the Swan Coastal Plain ecological community	Endangered	Community may occur within area
Proteaceae Dominated Kwongkan Shrublands of the Southeast Coastal Floristic Province of Western Australia	Endangered	Community may occur within area
Tuart (Eucalyptus gomphocephala) Woodlands and Forests of the Swan Coastal Plain ecological	Critically Endangered	Community likely to occur within area
community		
Listed Threatened Species		[Resource Information]
Name	Status	Type of Presence
Birds		
Anous tenuirostris melanops		
Australian Lesser Noddy [26000]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Atrichornis clamosus		
Noisy Scrub-bird, Tjimiluk [654]	Endangered	Species or species habitat known to occur within area
Botaurus poiciloptilus Australasian Bittern [1001]	Endangered	Species or species habitat likely to occur within area

Name	Status	Type of Presence
Calidris canutus Red Knot, Knot [855]	Endangered	Species or species habitat known to occur within area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area
Calidris tenuirostris Great Knot [862]	Critically Endangered	Species or species habitat known to occur within area
Calyptorhynchus banksii naso Forest Red-tailed Black-Cockatoo, Karrak [67034]	Vulnerable	Species or species habitat likely to occur within area
Calyptorhynchus latirostris Carnaby's Cockatoo, Short-billed Black-Cockatoo [59523]	Endangered	Species or species habitat known to occur within area
Cereopsis novaehollandiae grisea Cape Barren Goose (south-western), Recherche Cape Barren Goose [25978] Charadrius leschenaultii	Vulnerable	Breeding known to occur within area
Greater Sand Plover, Large Sand Plover [877]	Vulnerable	Species or species habitat known to occur within area
<u>Charadrius mongolus</u> Lesser Sand Plover, Mongolian Plover [879]	Endangered	Species or species habitat known to occur within area
Diomedea amsterdamensis Amsterdam Albatross [64405]	Endangered	Species or species habitat likely to occur within area
Diomedea antipodensis Antipodean Albatross [64458]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
<u>Diomedea dabbenena</u> Tristan Albatross [66471]	Endangered	Species or species habitat likely to occur within area
Diomedea epomophora Southern Royal Albatross [89221]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Diomedea exulans Wandering Albatross [89223]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Diomedea sanfordi Northern Royal Albatross [64456]	Endangered	Foraging, feeding or related behaviour likely to occur within area
Falco hypoleucos Grey Falcon [929]	Vulnerable	Species or species habitat likely to occur within area
Halobaena caerulea Blue Petrel [1059]	Vulnerable	Species or species habitat may occur within area
Leipoa ocellata Malleefowl [934]	Vulnerable	Species or species habitat may occur within area
Limosa lapponica menzbieri Northern Siberian Bar-tailed Godwit, Russkoye Bar-tailed Godwit [86432]	Critically Endangered	Species or species habitat known to occur within area
Macronectes giganteus Southern Giant-Petrel, Southern Giant Petrel	Endangered	Species or species

Name	Status	Type of Presence
[1060]	Clarato	habitat may occur within
		area
Macronectes halli		
Northern Giant Petrel [1061]	Vulnerable	Species or species habitat
		may occur within area
Numenius madagascariensis		
Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat
Lastern Curiew, Far Lastern Curiew [647]	Chilically Endangered	likely to occur within area
		intoly to occur within area
Pachyptila turtur subantarctica		
Fairy Prion (southern) [64445]	Vulnerable	Species or species habitat
		known to occur within area
Dozonorus floviventria		
Pezoporus flaviventris Western Ground Parret Kyloring [84650]	Critically Endangered	Species or species habitat
Western Ground Parrot, Kyloring [84650]	Critically Endangered	Species or species habitat likely to occur within area
		intoly to occur within area
Phoebetria fusca		
Sooty Albatross [1075]	Vulnerable	Species or species habitat
		likely to occur within area
Dtorodromo mollio		
Pterodroma mollis Soft-plumaged Petrol [1036]	Vulnerable	Forgaina fooding or related
Soft-plumaged Petrel [1036]	vuirierable	Foraging, feeding or related behaviour likely to occur
		within area
Rostratula australis		Within area
Australian Painted Snipe [77037]	Endangered	Species or species habitat
		known to occur within area
Otamoula manda manda		
Sternula nereis nereis Australian Fair (199050)	\/ln analala	Fananian fandian ar related
Australian Fairy Tern [82950]	Vulnerable	Foraging, feeding or related behaviour known to occur
		within area
Thalassarche carteri		Within area
Indian Yellow-nosed Albatross [64464]	Vulnerable	Foraging, feeding or related
		behaviour may occur within
-		area
Thalassarche cauta	En de a sere d	Fanania a faradia a sa salata d
Shy Albatross [89224]	Endangered	Foraging, feeding or related
		behaviour likely to occur within area
Thalassarche chrysostoma		Within area
Grey-headed Albatross [66491]	Endangered	Species or species habitat
		may occur within area
The lease and a linear stide		
Thalassarche impavida Comphell Albetrose, Comphell Black browned Albetrose	\/lm.a.rah.la	Chasias ar anasias habitat
Campbell Albatross, Campbell Black-browed Albatross [64459]	vuinerable	Species or species habitat may occur within area
		may occur within area
Thalassarche melanophris		
Black-browed Albatross [66472]	Vulnerable	Species or species habitat
		may occur within area
The lease and a stock!		
Thalassarche steadi	\/ln a na la la	Faracina faadina or ralatad
White-capped Albatross [64462]	Vulnerable	Foraging, feeding or related behaviour likely to occur
		within area
Mammals		
Balaenoptera borealis		
Sei Whale [34]	Vulnerable	Foraging, feeding or related
		behaviour likely to occur
Ralagnontora musculus		within area
Balaenoptera musculus Blue Whale [36]	Endangered	Migration route known to
Blue Whale [36]	Endangered	Migration route known to occur within area
Balaenoptera physalus		Joodi Willin aloa
Fin Whale [37]	Vulnerable	Foraging, feeding or related
		behaviour likely to occur
		within area
Bettongia penicillata ogilbyi		
Woylie [66844]	Endangered	Species or species habitat
		may occur within

Name	Status	Type of Presence
		area
<u>Dasyurus geoffroii</u> Chuditch, Western Quoll [330]	Vulnerable	Species or species habitat may occur within area
Eubalaena australis Southern Right Whale [40]	Endangered	Breeding known to occur within area
Megaptera novaeangliae Humpback Whale [38]	Vulnerable	Foraging, feeding or related behaviour known to occur within area
Neophoca cinerea Australian Sea-lion, Australian Sea Lion [22]	Endangered	Breeding known to occur within area
Parantechinus apicalis Dibbler [313]	Endangered	Species or species habitat known to occur within area
Petrogale lateralis hacketti Recherche Rock-wallaby [66849]	Vulnerable	Species or species habitat known to occur within area
Potorous gilbertii Gilbert's Potoroo, Ngilkat [66642]	Critically Endangered	Translocated population known to occur within area
Pseudocheirus occidentalis Western Ringtail Possum, Ngwayir, Womp, Woder, Ngoor, Ngoolangit [25911]	Critically Endangered	Species or species habitat may occur within area
Setonix brachyurus Quokka [229]	Vulnerable	Species or species habitat known to occur within area
Plants		
Caladenia elegans Elegant Spider-orchid [56775]	Endangered	Species or species habitat may occur within area
Caladenia granitora [65292]	Endangered	Species or species habitat may occur within area
Caladenia hoffmanii Hoffman's Spider-orchid [56719]	Endangered	Species or species habitat may occur within area
Diuris micrantha Dwarf Bee-orchid [55082]	Vulnerable	Species or species habitat likely to occur within area
<u>Drummondita ericoides</u> Morseby Range Drummondita [9193]	Endangered	Species or species habitat likely to occur within area
Eucalyptus insularis Twin Peak Island Mallee [3057]	Endangered	Species or species habitat likely to occur within area
Isopogon uncinatus Albany Cone Bush, Hook-leaf Isopogon [20871]	Endangered	Species or species habitat likely to occur within area
Reptiles		
Caretta caretta		
Loggerhead Turtle [1763] Chelonia mydas	Endangered	Foraging, feeding or related behaviour known to occur within area
Green Turtle [1765]	Vulnerable	Foraging, feeding or related behaviour known to occur within area

Name	Status	Type of Presence
<u>Dermochelys coriacea</u>		•
Leatherback Turtle, Leathery Turtle, Luth [1768] Egernia stokesii badia	Endangered	Foraging, feeding or related behaviour known to occur within area
Western Spiny-tailed Skink, Baudin Island Spiny-tailed Skink [64483]	Endangered	Species or species habitat may occur within area
<u>Liopholis pulchra longicauda</u> Jurien Bay Skink, Jurien Bay Rock-skink [83162]	Vulnerable	Species or species habitat known to occur within area
Natator depressus Flatback Turtle [59257]	Vulnerable	Foraging, feeding or related behaviour known to occur within area
Sharks		
Carcharias taurus (west coast population) Grey Nurse Shark (west coast population) [68752]	Vulnerable	Species or species habitat known to occur within area
Carcharodon carcharias White Shark, Great White Shark [64470]	Vulnerable	Foraging, feeding or related behaviour known to occur within area
Rhincodon typus Whale Shark [66680]	Vulnerable	Species or species habitat may occur within area
Listed Migratory Species		[Resource Information]
* Species is listed under a different scientific name on t	he EPBC Act - Threatened	Species list.
Name	Threatened	Type of Presence
Migratory Marine Birds		
Anous stolidus Common Noddy [825]		Species or species habitat likely to occur within area
Apus pacificus Fork-tailed Swift [678]		Species or species habitat likely to occur within area
Ardenna carneipes Flesh-footed Shearwater, Fleshy-footed Shearwater [82404] Ardenna grisea		Breeding known to occur within area
Sooty Shearwater [82651]		Species or species habitat may occur within area
Ardenna pacifica Wedge-tailed Shearwater [84292]		Breeding known to occur within area
Ardenna tenuirostris Short-tailed Shearwater [82652]		Breeding known to occur within area
<u>Diomedea amsterdamensis</u> Amsterdam Albatross [64405]	Endangered	Species or species habitat likely to occur within area
Diomedea antipodensis Antipodean Albatross [64458]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
<u>Diomedea dabbenena</u> Tristan Albatross [66471]	Endangered	Species or species habitat likely to occur within area
<u>Diomedea epomophora</u> Southern Royal Albatross [89221]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area

Name	Threatened	Type of Presence
<u>Diomedea exulans</u>		
Wandering Albatross [89223]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Diomedea sanfordi Northern Royal Albatross [64456]	Endangered	Foraging, feeding or related behaviour likely to occur within area
Fregata ariel Lesser Frigatebird, Least Frigatebird [1012]		Species or species habitat likely to occur within area
Hydroprogne caspia Caspian Tern [808]		Breeding known to occur within area
Macronectes giganteus Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area
Macronectes halli		
Northern Giant Petrel [1061]	Vulnerable	Species or species habitat may occur within area
Onychoprion anaethetus Bridled Tern [82845]		Breeding known to occur within area
Phoebetria fusca Sooty Albatross [1075]	Vulnerable	Species or species habitat likely to occur within area
Sterna dougallii Roseate Tern [817]		Breeding known to occur within area
Thalassarche carteri Indian Yellow-nosed Albatross [64464]	Vulnerable	Foraging, feeding or related behaviour may occur within area
Thalassarche cauta Shy Albatross [89224]	Endangered	Foraging, feeding or related behaviour likely to occur within area
Thalassarche chrysostoma Grey-headed Albatross [66491]	Endangered	Species or species habitat may occur within area
<u>Thalassarche impavida</u> Campbell Albatross, Campbell Black-browed Albatross [64459]	Vulnerable	Species or species habitat may occur within area
Thalassarche melanophris		may cood mam area
Black-browed Albatross [66472]	Vulnerable	Species or species habitat may occur within area
Thalassarche steadi White-capped Albatross [64462]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Migratory Marine Species		Within area
Balaena glacialis australis Southern Right Whale [75529]	Endangered*	Breeding known to occur within area
Balaenoptera bonaerensis Antarctic Minke Whale, Dark-shoulder Minke Whale [67812]		Species or species habitat likely to occur within area
Balaenoptera borealis Sei Whale [34]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Balaenoptera edeni Bryde's Whale [35]		Species or species habitat likely to occur within area

Name	Threatened	Type of Presence
Balaenoptera musculus Blue Whale [36]	Endangered	Migration route known to occur within area
Balaenoptera physalus Fin Whale [37]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Caperea marginata Pygmy Right Whale [39]		Foraging, feeding or related behaviour may occur within area
Carcharhinus longimanus Oceanic Whitetip Shark [84108]		Species or species habitat likely to occur within area
Carcharodon carcharias White Shark, Great White Shark [64470]	Vulnerable	Foraging, feeding or related behaviour known to occur within area
Chalania mudaa	Endangered	Foraging, feeding or related behaviour known to occur within area
Chelonia mydas Green Turtle [1765]	Vulnerable	Foraging, feeding or related behaviour known to occur within area
Dermochelys coriacea Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Foraging, feeding or related behaviour known to occur within area
Isurus oxyrinchus Shortfin Mako, Mako Shark [79073]		Species or species habitat likely to occur within area
Isurus paucus Longfin Mako [82947]		Species or species habitat likely to occur within area
<u>Lagenorhynchus obscurus</u> Dusky Dolphin [43]		Species or species habitat likely to occur within area
Lamna nasus Porbeagle, Mackerel Shark [83288]		Species or species habitat likely to occur within area
Manta alfredi Reef Manta Ray, Coastal Manta Ray, Inshore Manta Ray, Prince Alfred's Ray, Resident Manta Ray [84994]		Species or species habitat known to occur within area
Manta birostris Giant Manta Ray, Chevron Manta Ray, Pacific Manta Ray, Pelagic Manta Ray, Oceanic Manta Ray [84995]		Species or species habitat known to occur within area
Megaptera novaeangliae Humpback Whale [38]	Vulnerable	Foraging, feeding or related behaviour known to occur within area
Natator depressus Flatback Turtle [59257]	Vulnerable	Foraging, feeding or related behaviour known to occur within area
Orcinus orca Killer Whale, Orca [46]		Species or species habitat may occur within area
Physeter macrocephalus Sperm Whale [59]		Foraging, feeding or related behaviour known to occur within area
Rhincodon typus Whale Shark [66680]	Vulnerable	Species or species

Name	Threatened	Type of Presence
		habitat may occur within
Migratory Terrestrial Species		area
Motacilla cinerea Grey Wagtail [642]		Species or species habitat may occur within area
Migratory Wetlands Species		
Actitis hypoleucos Common Sandpiper [59309]		Species or species habitat known to occur within area
Arenaria interpres Ruddy Turnstone [872]		Species or species habitat known to occur within area
Calidris acuminata Sharp-tailed Sandpiper [874]		Species or species habitat likely to occur within area
Calidris alba Sanderling [875]		Species or species habitat known to occur within area
Calidris canutus Red Knot, Knot [855]	Endangered	Species or species habitat known to occur within area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area
Calidris melanotos Pectoral Sandpiper [858]		Species or species habitat likely to occur within area
Calidris ruficollis Red-necked Stint [860]		Species or species habitat known to occur within area
Calidris tenuirostris Great Knot [862]	Critically Endangered	Species or species habitat known to occur within area
Charadrius leschenaultii Greater Sand Plover, Large Sand Plover [877]	Vulnerable	Species or species habitat known to occur within area
Charadrius mongolus Lesser Sand Plover, Mongolian Plover [879]	Endangered	Species or species habitat known to occur within area
Glareola maldivarum Oriental Pratincole [840]		Species or species habitat known to occur within area
Limosa Iapponica Bar-tailed Godwit [844]		Species or species habitat known to occur within area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat likely to occur within area
Pandion haliaetus Osprey [952] Thalasseus bergii		Breeding known to occur within area
Greater Crested Tern [83000] Tringa brevipes		Breeding known to occur within area
Grey-tailed Tattler [851]		Species or species habitat known to occur

Name	Threatened	Type of Presence
		within area
Tringa nebularia		
Common Greenshank, Greenshank [832]		Species or species habitat likely to occur within area

Other Matters Protected by the EPBC Act

Commonwealth Land [Resource Information]

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

Name

Commonwealth Land -

Calidris acuminata

Calidris alba

Sanderling [875]

Sharp-tailed Sandpiper [874]

Defence - HMAS STIRLING-ROCKINGHAM ;HMAS STIRLING - GARDEN ISLAND			
Commonwealth Heritage Places		[Resource Information]	
Name	State	Status	
Natural			
Garden Island	WA	Listed place	
Listed Marine Species		[Resource Information]	
* Species is listed under a different scientific name	on the EPBC Act - Threaten	ed Species list.	
Name	Threatened	Type of Presence	
Birds			
Actitis hypoleucos			
Common Sandpiper [59309]		Species or species habitat known to occur within area	
Anous stolidus			
Common Noddy [825]		Species or species habitat likely to occur within area	
Anous tenuirostris melanops			
Australian Lesser Noddy [26000] Apus pacificus	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	
Fork-tailed Swift [678]		Species or species habitat likely to occur within area	
Ardea ibis			
Cattle Egret [59542]		Species or species habitat may occur within area	
Arenaria interpres			
Ruddy Turnstone [872]		Species or species habitat known to occur within area	

Species or species habitat likely to occur within area

Species or species

Name	Threatened	Type of Presence
		habitat known to occur
		within area
<u>Calidris canutus</u>		
Red Knot, Knot [855]	Endangered	Species or species habitat
		known to occur within area
Calidris ferruginea		
Curlew Sandpiper [856]	Critically Endangered	Species or species habitat
Curiew Sariupipei [656]	Chilically Endangered	known to occur within area
<u>Calidris melanotos</u>		
Pectoral Sandpiper [858]		Species or species habitat
		likely to occur within area
Colidria ruficallia		
Calidris ruficollis Red-necked Stint [860]		Species or species habitat
Neu-neckeu Stifft [000]		known to occur within area
		miowi to occur miim area
<u>Calidris tenuirostris</u>		
Great Knot [862]	Critically Endangered	Species or species habitat
		known to occur within area
Cothorosto alvue		
Croot Skua [50473]		Chasias ar anasias habitat
Great Skua [59472]		Species or species habitat may occur within area
		may occar within area
Cereopsis novaehollandiae grisea		
Cape Barren Goose (south-western), Recherche Cape	Vulnerable	Breeding known to occur
Barren Goose [25978]		within area
Charadrius leschenaultii		
Greater Sand Plover, Large Sand Plover [877]	Vulnerable	Species or species habitat
		known to occur within area
Charadrius mongolus		
Lesser Sand Plover, Mongolian Plover [879]	Endangered	Species or species habitat
,	9	known to occur within area
<u>Charadrius ruficapillus</u>		
Red-capped Plover [881]		Species or species habitat
		known to occur within area
Chrysococcyx osculans		
Black-eared Cuckoo [705]		Species or species habitat
• •		likely to occur within area
<u>Diomedea amsterdamensis</u>		
Amsterdam Albatross [64405]	Endangered	Species or species habitat
		likely to occur within area
Diomedea antipodensis		
Antipodean Albatross [64458]	Vulnerable	Foraging, feeding or related
		behaviour likely to occur
D'acceptant de la latera de latera de la latera de latera de la latera de latera de latera de la latera de la latera de la latera de la latera de latera de la latera de latera de latera de latera de latera de latera de la latera de l		within area
<u>Diomedea dabbenena</u>	Frador sored	Craciae ar anasiae babitat
Tristan Albatross [66471]	Endangered	Species or species habitat likely to occur within area
		intery to occur within area
<u>Diomedea epomophora</u>		
Southern Royal Albatross [89221]	Vulnerable	Foraging, feeding or related
		behaviour likely to occur
Diomodos evulons		within area
<u>Diomedea exulans</u> Wandering Albatross [89223]	Vulnerable	Foraging, feeding or related
Wandening Albatross [09225]	vullierable	behaviour likely to occur
		within area
<u>Diomedea sanfordi</u>		
Northern Royal Albatross [64456]	Endangered	Foraging, feeding or related
		behaviour likely to occur
Fudvotula minor		within area
Eudyptula minor Little Penguin [1085]		Brooding known to accum
Little Penguin [1085]		Breeding known to occur within area

Name	Threatened	Type of Presence
Fregata ariel Lesser Frigatebird, Least Frigatebird [1012]		Species or species habitat likely to occur within area
Glareola maldivarum Oriental Pratincole [840]		Species or species habitat known to occur within area
Haliaeetus leucogaster White-bellied Sea-Eagle [943]		Species or species habitat known to occur within area
Halobaena caerulea Blue Petrel [1059]	Vulnerable	Species or species habitat may occur within area
Heteroscelus brevipes Grey-tailed Tattler [59311]		Species or species habitat known to occur within area
Larus novaehollandiae Silver Gull [810]		Breeding known to occur within area
Larus pacificus Pacific Gull [811] Limosa lapponica		Breeding known to occur within area
Bar-tailed Godwit [844]		Species or species habitat known to occur within area
Macronectes giganteus Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area
Macronectes halli Northern Giant Petrel [1061]	Vulnerable	Species or species habitat may occur within area
Merops ornatus Rainbow Bee-eater [670]		Species or species habitat may occur within area
Motacilla cinerea Grey Wagtail [642]		Species or species habitat may occur within area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat likely to occur within area
Pachyptila turtur Fairy Prion [1066]		Species or species habitat known to occur within area
Pandion haliaetus Osprey [952]		Breeding known to occur within area
Pelagodroma marina White-faced Storm-Petrel [1016]		Breeding known to occur within area
Phalacrocorax fuscescens Black-faced Cormorant [59660]		Breeding known to occur within area
Phoebetria fusca Sooty Albatross [1075]	Vulnerable	Species or species habitat likely to occur within area
Pterodroma macroptera Great-winged Petrel [1035]		Breeding known to occur within area
Pterodroma mollis Soft-plumaged Petrel [1036]	Vulnerable	Foraging, feeding or related behaviour likely

Name	Threatened	Type of Presence
Duffing a controlling		to occur within area
Puffinus assimilis Little Shearwater [59363]		Breeding known to occur within area
Puffinus carneipes Flesh-footed Shearwater, Fleshy-footed Shearwater [1043]		Breeding known to occur within area
Puffinus griseus Sooty Shearwater [1024]		Species or species habitat may occur within area
Puffinus pacificus Wedge-tailed Shearwater [1027]		Breeding known to occur
Puffinus tenuirostris		within area
Short-tailed Shearwater [1029] Postratula benghalensis (sepsu lato)		Breeding known to occur within area
Rostratula benghalensis (sensu lato) Painted Snipe [889]	Endangered*	Species or species habitat known to occur within area
Sterna anaethetus Bridled Tern [814]		Breeding known to occur within area
Sterna bergii Crested Tern [816]		Breeding known to occur within area
Sterna caspia Caspian Tern [59467]		Breeding known to occur within area
Sterna dougallii Roseate Tern [817]		Breeding known to occur within area
Sterna fuscata Sooty Tern [794]		Breeding known to occur within area
Sterna nereis Fairy Tern [796]		Breeding known to occur
Thalassarche carteri Indian Yellow-nosed Albatross [64464]	Vulnerable	within area Foraging, feeding or related behaviour may occur within area
Thalassarche cauta Shy Albatross [89224]	Endangered	Foraging, feeding or related behaviour likely to occur within area
Thalassarche chrysostoma Grey-headed Albatross [66491]	Endangered	Species or species habitat may occur within area
<u>Thalassarche impavida</u> Campbell Albatross, Campbell Black-browed Albatross [64459]	Vulnerable	Species or species habitat may occur within area
Thalassarche melanophris Black-browed Albatross [66472]	Vulnerable	Species or species habitat may occur within area
Thalassarche steadi White-capped Albatross [64462]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Thinornis rubricollis Hooded Plover [59510]		Species or species habitat known to occur within area
Tringa nebularia Common Greenshank, Greenshank [832]		Species or species habitat likely to occur within area
Fish		

Name	Threatened	Type of Presence
Acentronura australe		
Southern Pygmy Pipehorse [66185]		Species or species habitat may occur within area
Campichthys galei		
Gale's Pipefish [66191]		Species or species habitat may occur within area
Choeroichthys suillus		
Pig-snouted Pipefish [66198]		Species or species habitat may occur within area
<u>Halicampus brocki</u>		
Brock's Pipefish [66219]		Species or species habitat may occur within area
Heraldia nocturna		
Upside-down Pipefish, Eastern Upside-down Pipefish, Eastern Upside-down Pipefish [66227]		Species or species habitat may occur within area
Hippocampus angustus		
Western Spiny Seahorse, Narrow-bellied Seahorse [66234]		Species or species habitat may occur within area
Hippocampus breviceps		
Short-head Seahorse, Short-snouted Seahorse [66235]		Species or species habitat may occur within area
Hippocampus subelongatus		
West Australian Seahorse [66722]		Species or species habitat may occur within area
<u>Histiogamphelus cristatus</u>		
Rhino Pipefish, Macleay's Crested Pipefish, Ring-back Pipefish [66243]		Species or species habitat may occur within area
<u>Leptoichthys fistularius</u>		
Brushtail Pipefish [66248]		Species or species habitat may occur within area
<u>Lissocampus caudalis</u>		
Australian Smooth Pipefish, Smooth Pipefish [66249]		Species or species habitat may occur within area
<u>Lissocampus fatiloquus</u>		
Prophet's Pipefish [66250]		Species or species habitat may occur within area
<u>Lissocampus runa</u>		
Javelin Pipefish [66251]		Species or species habitat may occur within area
Maroubra perserrata		
Sawtooth Pipefish [66252]		Species or species habitat may occur within area
Mitotichthys meraculus		
Western Crested Pipefish [66259]		Species or species habitat may occur within area
Nannocampus subosseus		
Bonyhead Pipefish, Bony-headed Pipefish [66264]		Species or species habitat may occur within area
Notiocampus ruber		_
Red Pipefish [66265]		Species or species habitat may occur within area
Phycodurus eques		
Leafy Seadragon [66267]		Species or species habitat may occur within area

Name	Threatened	Type of Presence
Phyllopteryx taeniolatus		
Common Seadragon, Weedy Seadragon [66268]		Species or species habitat may occur within area
Pugnaso curtirostris		
Pugnose Pipefish, Pug-nosed Pipefish [66269]		Species or species habitat may occur within area
Solegnathus lettiensis		
Gunther's Pipehorse, Indonesian Pipefish [66273]		Species or species habitat may occur within area
Stigmatopora argus		
Spotted Pipefish, Gulf Pipefish, Peacock Pipefish [66276]		Species or species habitat may occur within area
Stigmatopora nigra		
Widebody Pipefish, Wide-bodied Pipefish, Black Pipefish [66277]		Species or species habitat may occur within area
Syngnathoides biaculeatus		
Double-end Pipehorse, Double-ended Pipehorse, Alligator Pipefish [66279]		Species or species habitat may occur within area
<u>Urocampus carinirostris</u>		
Hairy Pipefish [66282]		Species or species habitat may occur within area
Vanacampus margaritifer		
Mother-of-pearl Pipefish [66283]		Species or species habitat may occur within area
Vanacampus phillipi		
Port Phillip Pipefish [66284]		Species or species habitat may occur within area
Vanacampus poecilolaemus		
Longsnout Pipefish, Australian Long-snout Pipefish,		Species or species habitat
Long-snouted Pipefish [66285]		may occur within area
Mammals		
Arctocephalus forsteri		
Long-nosed Fur-seal, New Zealand Fur-seal [20]		Breeding known to occur
Long-nosed i di-seai, New Zealand i di-seai [20]		within area
Neophoca cinerea		
Australian Sea-lion, Australian Sea Lion [22]	Endangered	Breeding known to occur within area
Reptiles		within area
Aipysurus laevis		
Olive Seasnake [1120]		Species or species habitat may occur within area
<u>Aipysurus pooleorum</u>		
Shark Bay Seasnake [66061]		Species or species habitat may occur within area
<u>Caretta caretta</u>		
Loggerhead Turtle [1763]	Endangered	Foraging, feeding or related behaviour known to occur within area
<u>Chelonia mydas</u>		_
Green Turtle [1765]	Vulnerable	Foraging, feeding or related behaviour known to occur within area
<u>Dermochelys coriacea</u> Leatherback Turtle Leathery Turtle Luth [1768]	Endongorod	Forceing fooding or related
Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Foraging, feeding or related behaviour known to occur within area
Disteira kingii Spectacled Seasnake [1123]		Species or species habitat
opodiadied deastiake [1120]		Species or species habitat may occur within area

Name	Threatened	Type of Presence
Disteira major Olive-headed Seasnake [1124]		Species or species habitat
Ephalophis greyi		may occur within area
North-western Mangrove Seasnake [1127]		Species or species habitat may occur within area
Natator depressus Flatback Turtle [59257]	Vulnerable	Foraging, feeding or related behaviour known to occur
Pelamis platurus Yellow-bellied Seasnake [1091]		within area Species or species habitat may occur within area
Whales and other Cetaceans		[Resource Information]
Name	Status	Type of Presence
Mammals		
Balaenoptera acutorostrata Minke Whale [33]		Species or species habitat may occur within area
Balaenoptera bonaerensis Antarctic Minke Whale, Dark-shoulder Minke Whale [67812]		Species or species habitat likely to occur within area
Balaenoptera borealis Sei Whale [34]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Balaenoptera edeni Bryde's Whale [35]		Species or species habitat likely to occur within area
Balaenoptera musculus Blue Whale [36]	Endangered	Migration route known to occur within area
Balaenoptera physalus Fin Whale [37]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Berardius arnuxii Arnoux's Beaked Whale [70]		Species or species habitat may occur within area
Caperea marginata Pygmy Right Whale [39]		Foraging, feeding or related behaviour may occur within area
Delphinus delphis Common Dophin, Short-beaked Common Dolphin [60]		Species or species habitat may occur within area
Eubalaena australis Southern Right Whale [40]	Endangered	Breeding known to occur within area
Feresa attenuata Pygmy Killer Whale [61]		Species or species habitat may occur within area
Globicephala macrorhynchus Short-finned Pilot Whale [62]		Species or species habitat may occur within area
Globicephala melas Long-finned Pilot Whale [59282]		Species or species habitat may occur within area
Grampus griseus Risso's Dolphin, Grampus [64]		Species or species habitat may occur within

	Status	Type of Presence
		area
Hyperoodon planifrons Southern Bottlenose Whale [71]		Species or species habitat may occur within area
Kogia breviceps Pygmy Sperm Whale [57]		Species or species habitat may occur within area
Kogia simus Dwarf Sperm Whale [58]		Species or species habitat may occur within area
<u>Lagenodelphis hosei</u> Fraser's Dolphin, Sarawak Dolphin [41]		Species or species habitat may occur within area
<u>Lagenorhynchus obscurus</u> Dusky Dolphin [43]		Species or species habitat likely to occur within area
Lissodelphis peronii Southern Right Whale Dolphin [44]		Species or species habitat may occur within area
Megaptera novaeangliae Humpback Whale [38]	Vulnerable	Foraging, feeding or related behaviour known to occur within area
Mesoplodon bowdoini Andrew's Beaked Whale [73]		Species or species habitat may occur within area
Mesoplodon densirostris Blainville's Beaked Whale, Dense-beaked Whale [74]		Species or species habitat may occur within area
Mesoplodon ginkgodens Gingko-toothed Beaked Whale, Gingko-toothed Whale, Gingko Beaked Whale [59564]		Species or species habitat may occur within area
Mesoplodon grayi Gray's Beaked Whale, Scamperdown Whale [75]		Species or species habitat may occur within area
Mesoplodon hectori Hector's Beaked Whale [76]		Species or species habitat may occur within area
Mesoplodon layardii Strap-toothed Beaked Whale, Strap-toothed Whale, Layard's Beaked Whale [25556]		Species or species habitat may occur within area
Mesoplodon mirus True's Beaked Whale [54]		Species or species habitat may occur within area
Orcinus orca Killer Whale, Orca [46]		Species or species habitat may occur within area
Peponocephala electra Melon-headed Whale [47]		Species or species habitat may occur within area
Physeter macrocephalus Sperm Whale [59]		Foraging, feeding or related behaviour known to occur within area
Pseudorca crassidens False Killer Whale [48]		Species or species habitat likely to occur within area

Name	Status	Type of Presence
Stenella attenuata Spotted Dolphin, Pantropical Spotted Dolphin [51]		Species or species habitat may occur within area
Stenella coeruleoalba Striped Dolphin, Euphrosyne Dolphin [52]		Species or species habitat may occur within area
Stenella longirostris Long-snouted Spinner Dolphin [29]		Species or species habitat may occur within area
Steno bredanensis Rough-toothed Dolphin [30]		Species or species habitat may occur within area
Tasmacetus shepherdi Shepherd's Beaked Whale, Tasman Beaked Whale [55]		Species or species habitat may occur within area
Tursiops aduncus Indian Ocean Bottlenose Dolphin, Spotted Bottlenose Dolphin [68418]	e	Species or species habitat likely to occur within area
Tursiops truncatus s. str. Bottlenose Dolphin [68417]		Species or species habitat may occur within area
Ziphius cavirostris Cuvier's Beaked Whale, Goose-beaked Whale [56]		Species or species habitat may occur within area

Australian Marine Parks	[Resource Information]
Name	Label
Abrolhos	Habitat Protection Zone (IUCN IV)
Abrolhos	Multiple Use Zone (IUCN VI)
Abrolhos	Special Purpose Zone (IUCN VI)
Bremer	National Park Zone (IUCN II)
Bremer	Special Purpose Zone (Mining
Eastern Recherche	National Park Zone (IUCN II)
Eastern Recherche	Special Purpose Zone (IUCN VI)
Geographe	Habitat Protection Zone (IUCN IV)
Geographe	Multiple Use Zone (IUCN VI)
Geographe	National Park Zone (IUCN II)
Geographe	Special Purpose Zone (Mining
Great Australian Bight	Special Purpose Zone (Mining
Jurien	Special Purpose Zone (IUCN VI)
South-west Corner	Habitat Protection Zone (IUCN IV)
South-west Corner	Multiple Use Zone (IUCN VI)
South-west Corner	National Park Zone (IUCN II)
South-west Corner	Special Purpose Zone (IUCN VI)
South-west Corner	Special Purpose Zone (Mining
Twilight	National Park Zone (IUCN II)
Twilight	Special Purpose Zone (Mining
Two Rocks	Multiple Use Zone (IUCN VI)

Extra Information

Domestic Cattle [16]

State and Territory Reserves	[Resource Information]
Name	State
Bald Island	WA
Boullanger, Whitlock, Favourite, Tern And Osprey Islands	WA
Eclipse Island	WA
Escape Island	WA
Flinders Bay	WA
Penguin Island	WA
Recherche Archipelago	WA
St Alouarn Island	WA
Unnamed WA44682	WA
Unnamed WA48968	WA

Invasive Species [Resource Information]

Weeds reported here are the 20 species of national significance (WoNS), along with other introduced plants that are considered by the States and Territories to pose a particularly significant threat to biodiversity. The following feral animals are reported: Goat, Red Fox, Cat, Rabbit, Pig, Water Buffalo and Cane Toad. Maps from Landscape Health Project, National Land and Water Resouces Audit, 2001.

Name	Status	Type of Presence
Birds		
Acridotheres tristis		
Common Myna, Indian Myna [387]		Species or species habitat likely to occur within area
Anas platyrhynchos		
Mallard [974]		Species or species habitat likely to occur within area
Carduelis carduelis		
European Goldfinch [403]		Species or species habitat likely to occur within area
Columba livia		
Rock Pigeon, Rock Dove, Domestic Pigeon [803]		Species or species habitat likely to occur within area
Passer domesticus		
House Sparrow [405]		Species or species habitat likely to occur within area
Passer montanus		
Eurasian Tree Sparrow [406]		Species or species habitat likely to occur within area
Streptopelia chinensis		
Spotted Turtle-Dove [780]		Species or species habitat likely to occur within area
Streptopelia senegalensis		
Laughing Turtle-dove, Laughing Dove [781]		Species or species habitat likely to occur within area
Sturnus vulgaris		
Common Starling [389]		Species or species habitat likely to occur within area
Turdus merula		
Common Blackbird, Eurasian Blackbird [596]		Species or species habitat likely to occur within area
Mammals		
Bos taurus		

Species or species habitat likely to occur within area

Name	Status Type of Presence	
Canis lupus familiaris Domestic Dog [82654]	Species or species had likely to occur within a	
Felis catus Cat, House Cat, Domestic Cat [19]	Species or species had likely to occur within a	
Feral deer Feral deer species in Australia [85733]	Species or species hall likely to occur within a	
Funambulus pennantii Northern Palm Squirrel, Five-striped Palm Squirrel [129]	Species or species hall likely to occur within a	
Mus musculus House Mouse [120]	Species or species hall likely to occur within a	
Oryctolagus cuniculus Rabbit, European Rabbit [128]	Species or species had likely to occur within a	
Rattus norvegicus Brown Rat, Norway Rat [83]	Species or species had likely to occur within a	
Rattus rattus Black Rat, Ship Rat [84]	Species or species hall likely to occur within a	
Sus scrofa Pig [6]	Species or species hall likely to occur within an	
Vulpes vulpes Red Fox, Fox [18]	Species or species had likely to occur within a	
Plants		
Anredera cordifolia Madeira Vine, Jalap, Lamb's-tail, Mignonette Vine, Anredera, Gulf Madeiravine, Heartleaf Madeiravine, Potato Vine [2643]	Species or species hal likely to occur within a	
Asparagus aethiopicus Asparagus Fern, Ground Asparagus, Basket Fern, Sprengi's Fern, Bushy Asparagus, Emerald Asparagus [62425]	Species or species hall likely to occur within an	
Asparagus asparagoides Bridal Creeper, Bridal Veil Creeper, Smilax, Florist's Smilax, Smilax Asparagus [22473]	Species or species had likely to occur within an	
Asparagus plumosus Climbing Asparagus-fern [48993]	Species or species had likely to occur within a	
Brachiaria mutica Para Grass [5879]	Species or species had may occur within area	
Cenchrus ciliaris Buffel-grass, Black Buffel-grass [20213]	Species or species hall may occur within area	
Chrysanthemoides monilifera Bitou Bush, Boneseed [18983]	Species or species had may occur within area	
Chrysanthemoides monilifera subsp. monilifera Boneseed [16905]	Species or species hall likely to occur within a	

Name	Status	Type of Presence
Genista linifolia Flax-leaved Broom, Mediterranean Broom, Flax E [2800]	Broom	Species or species habitat likely to occur within area
Genista sp. X Genista monspessulana Broom [67538]		Species or species habitat may occur within area
Lantana camara Lantana, Common Lantana, Kamara Lantana, La leaf Lantana, Pink Flowered Lantana, Red Flower Lantana, Red-Flowered Sage, White Sage, Wild S [10892]	red	Species or species habitat likely to occur within area
Lycium ferocissimum African Boxthorn, Boxthorn [19235]		Species or species habitat likely to occur within area
Olea europaea Olive, Common Olive [9160]		Species or species habitat may occur within area
Opuntia spp. Prickly Pears [82753]		Species or species habitat likely to occur within area
Pinus radiata Radiata Pine Monterey Pine, Insignis Pine, Wildir Pine [20780]	ng	Species or species habitat may occur within area
Rubus fruticosus aggregate Blackberry, European Blackberry [68406]		Species or species habitat likely to occur within area
Sagittaria platyphylla Delta Arrowhead, Arrowhead, Slender Arrowhead [68483]	d	Species or species habitat likely to occur within area
Salix spp. except S.babylonica, S.x calodendron Willows except Weeping Willow, Pussy Willow an Sterile Pussy Willow [68497]		Species or species habitat likely to occur within area
Salvinia molesta Salvinia, Giant Salvinia, Aquarium Watermoss, Ka Weed [13665]	ariba	Species or species habitat likely to occur within area
Tamarix aphylla Athel Pine, Athel Tree, Tamarisk, Athel Tamarisk, Athel Tamarix, Desert Tamarisk, Flowering Cypre Salt Cedar [16018]	•	Species or species habitat likely to occur within area
Reptiles		
Hemidactylus frenatus Asian House Gecko [1708]		Species or species habitat likely to occur within area

Key Ecological Features (Marine)

[Resource Information]

Key Ecological Features are the parts of the marine ecosystem that are considered to be important for the biodiversity or ecosystem functioning and integrity of the Commonwealth Marine Area.

Name	Region
Ancient coastline at 90-120m depth	South-west
Commonwealth marine environment surrounding	South-west
Commonwealth marine environment within and	South-west
Commonwealth marine environment within and	South-west
Diamantina Fracture Zone	South-west
Naturaliste Plateau	South-west
Western demersal slope and associated fish	South-west
Western rock lobster	South-west

Caveat

The information presented in this report has been provided by a range of data sources as acknowledged at the end of the report.

This report is designed to assist in identifying the locations of places which may be relevant in determining obligations under the Environment Protection and Biodiversity Conservation Act 1999. It holds mapped locations of World and National Heritage properties, Wetlands of International and National Importance, Commonwealth and State/Territory reserves, listed threatened, migratory and marine species and listed threatened ecological communities. Mapping of Commonwealth land is not complete at this stage. Maps have been collated from a range of sources at various resolutions.

Not all species listed under the EPBC Act have been mapped (see below) and therefore a report is a general guide only. Where available data supports mapping, the type of presence that can be determined from the data is indicated in general terms. People using this information in making a referral may need to consider the gualifications below and may need to seek and consider other information sources.

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

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

Where very little information is available for species or large number of maps are required in a short time-frame, maps are derived either from 0.04 or 0.02 decimal degree cells; by an automated process using polygon capture techniques (static two kilometre grid cells, alpha-hull and convex hull); or captured manually or by using topographic features (national park boundaries, islands, etc). In the early stages of the distribution mapping process (1999-early 2000s) distributions were defined by degree blocks, 100K or 250K map sheets to rapidly create distribution maps. More reliable distribution mapping methods are used to update these distributions as time permits.

Only selected species covered by the following provisions of the EPBC Act have been mapped:

- migratory and
- marine

The following species and ecological communities have not been mapped and do not appear in reports produced from this database:

- threatened species listed as extinct or considered as vagrants
- some species and ecological communities that have only recently been listed
- some terrestrial species that overfly the Commonwealth marine area
- migratory species that are very widespread, vagrant, or only occur in small numbers

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

- non-threatened seabirds which have only been mapped for recorded breeding sites
- seals which have only been mapped for breeding sites near the Australian continent

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

Coordinates

 $-25.765206\ 109.237891, -25.725623\ 109.501563, -25.992551\ 109.732276, -25.992551\ 109.875098, -26.071525\ 110.182716, -26.229314\\ 110.325538, -25.656321\ 112.127296, -27.717513\ 112.984229, -27.814726\ 114.02793, -28.202708\ 114.159766, -28.483117\ 114.445411, -28.695347\ 114.577247, -28.974447\ 114.599219, -29.147305\ 114.818946, -29.530391\ 114.950782, -29.921554\ 114.89585, -30.746498\ 115.082618, -31.517621\ 115.533057, -31.863505\ 115.730811, -32.523601\ 115.67588, -32.634692\ 115.544044, -33.16049\ 115.620948, -33.619137\ 115.302344, -33.49096\ 114.994727, -33.737988\ 114.928809, -34.275319\ 114.972755, -34.46575\ 115.126563, -34.366055\ 115.269385, -34.818257\ 115.917579, -34.908402\ 116.060401, -35.106373\ 116.598731, -35.11536\ 117.389747, -35.169263\ 117.774268, -35.169263\ 118.081885, -34.980447\ 118.312598, -34.402321\ 119.663917, -34.30255\ 119.56504, -34.029844\ 119.883643, -33.938746\ 120.960303, -33.911398\ 121.399757, -34.011632\ 121.949073, -34.102652\ 122.476417, -34.038948\ 123.432227, -33.591687\ 124.091407, -33.10529\ 124.212257, -32.902593\ 125.014258, -32.319576\ 126.134864, -32.375265\ 127.123633, -31.760809\ 129.035255, -35.294897\ 129.068214, -35.634921\ 127.541114, -37.453004\ 125.157081, -37.696807\ 123.058692, -37.688114\ 120.817481, -38.46644\ 118.664161, -38.337294\ 115.697852, -37.418109\ 113.368751, -36.584603\ 112.028419, -34.998448\ 111.061622, -33.545916\ 110.973731, -31.984725\ 111.512061, -31.414542\ 111.270362, -30.026241\ 110.182716, -28.396173\ 109.798194, -27.756409\ 109.875098, -25.765206\ 109.237891, -25.765206\ 109.237891$

Acknowledgements

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

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

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

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

APPENDIX B. SUPPORTING FIGURES FOR SECTION 2.3 METEOROLOGY AND OCEANOGRAPHY

Browse

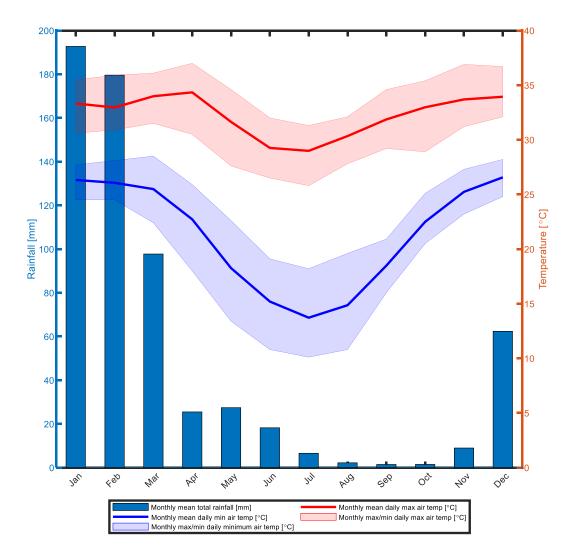


Figure 1. Monthly average total rainfall [mm] and air temperature [°C], calculated based on observations at the Broome Airport weather station from 1939-2020 (Bureau of Meteorology 2020). Bars show the monthly average total rainfall values, and thick blue and red lines denote monthly average daily minimum and maximum air temperatures, respectively. Shaded blue and red areas denote monthly recorded extremes of daily minimum and maximum air temperature, respectively.

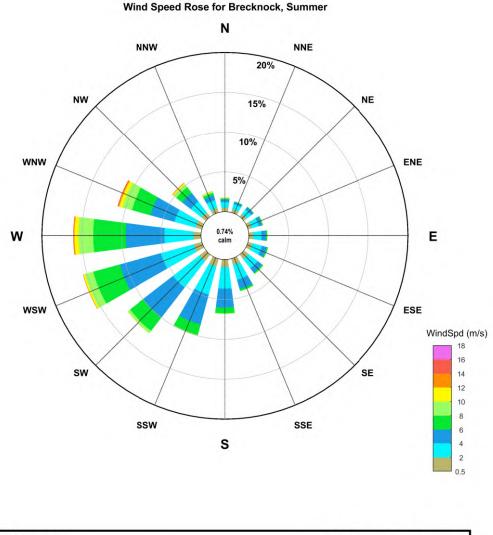
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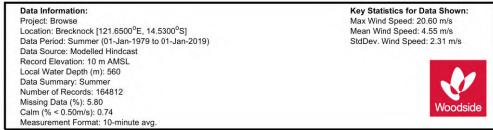


Figure 2. Summer distributions of 10-minute average wind speeds by 22.5° directional sectors at the Brecknock site (Metocean Solutions Ltd, 2019). Note tropical cyclone events were not included in this distribution. Winds at Brecknock in summer are predominantly from the WNW to SW due to the North West Monsoon (WEL, 2019).

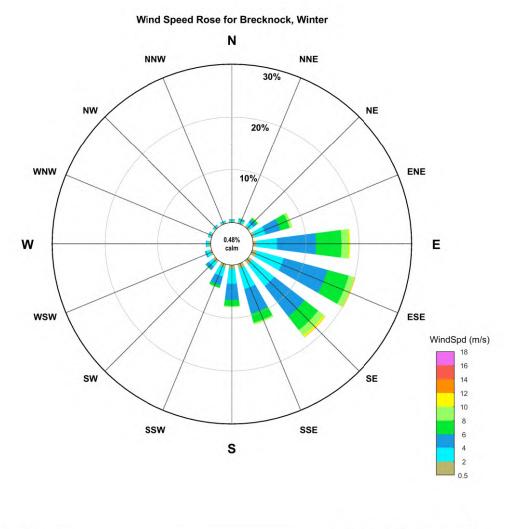
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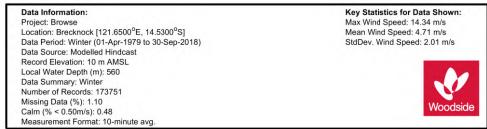


Figure 3. Winter distributions of 10-minute average wind speeds by 22.5° directional sectors at the Brecknock site (Metocean Solutions Ltd, 2019). Note tropical cyclone events were not included in this distribution. Winds at Brecknock in winter are predominantly from the E to SE due to the South East Trade Winds coming from the Australian mainland (WEL, 2019).

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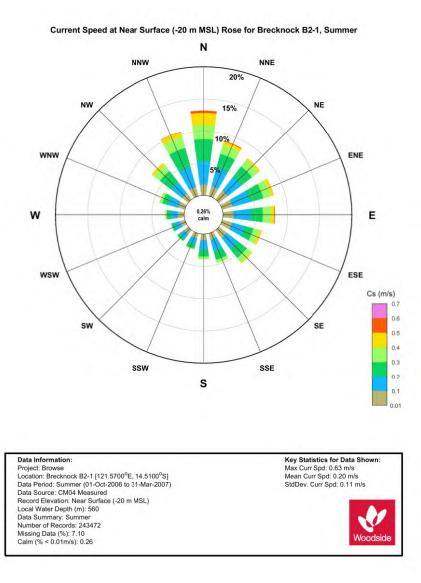


Figure 4. Summer (Nov-Apr) near surface combined frequency of 1-minute mean current speed and direction (towards) measured at Brecknock B2-1 location (cyclones removed) (RPS Metocean Ltd. 2008).

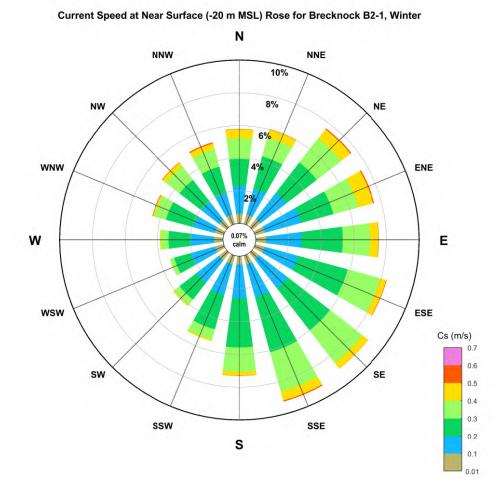
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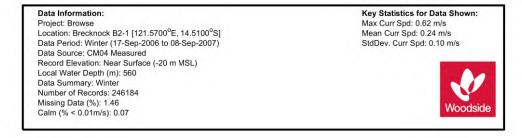


Figure 5. Winter (May-Sep) near surface combined frequency of 1-minute mean current speed and direction (towards) measured at Brecknock B2-1 location (cyclones removed) (RPS Metocean Ltd. 2008).

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North-west Shelf/Scarborough

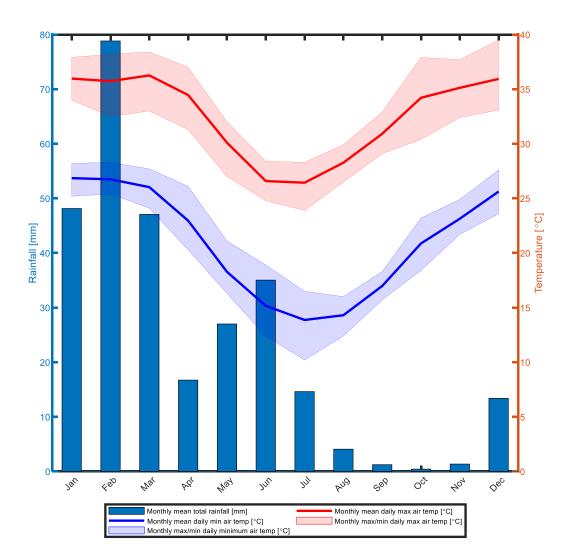


Figure 1. Monthly average total rainfall [mm] and air temperature [°C], calculated based on observations at the Karratha Aero weather station from 1972-2020 and 1993-2020 respectively (Bureau of Meteorology 2020). Bars show the monthly average total rainfall values, and thick blue and red lines denote monthly average daily minimum and maximum air temperatures, respectively. Shaded blue and red areas denote monthly recorded extremes of daily minimum and maximum air temperature, respectively.

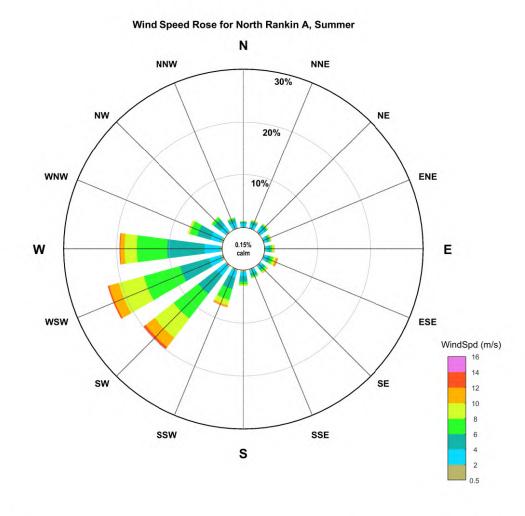
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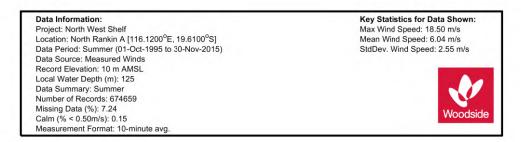


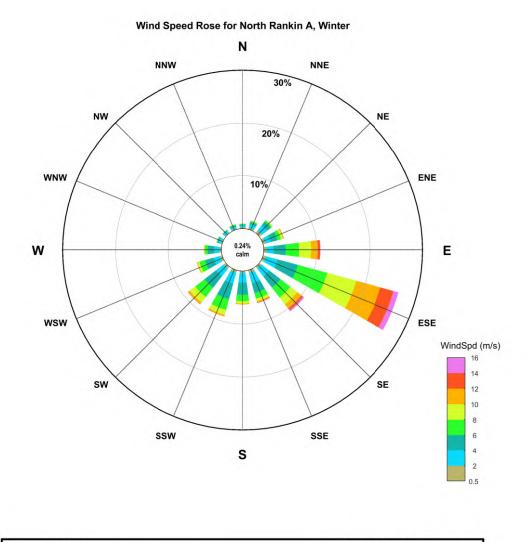
Figure 2. Summer distributions of 10-minute average wind speeds by 22.5° directional sectors at the North Rankin A site (WEL, 2015). Note tropical cyclone events were not included in this distribution. Winds at North Rankin A in summer are characterised by W to SW driven by the North West Monsoon (RPS, 2016).

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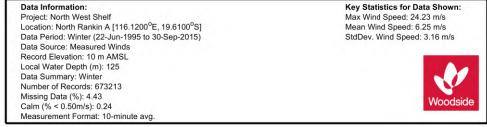


Figure 3. Winter distributions of 10-minute average wind speeds by 22.5° directional sectors at the North Rankin A site (WEL, 2015). Note tropical cyclone events were not included in this distribution. Winds at North Rankin in winter are predominantly influenced by the South East Trade Winds over Australia (RPS, 2016).

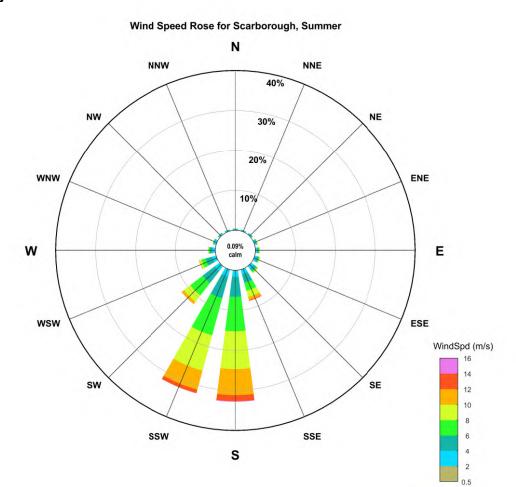
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Scarborough



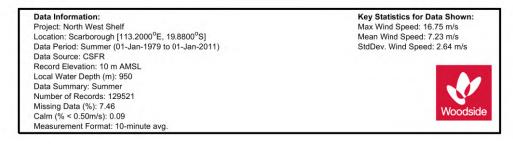


Figure 4. Summer distributions of wind speeds (10-minute at 10m ASL) by 22.5° directional sectors at the Scarborough site (WEL, 2018). Note tropical cyclone events were not included in this distribution. Winds at Scarborough in summer are predominantly from the S to SSW due to a Pilbara Heat Low forming over the northwest coast of Western Australia [R8] SW winds are also experienced at this site due to the monsoon trough.

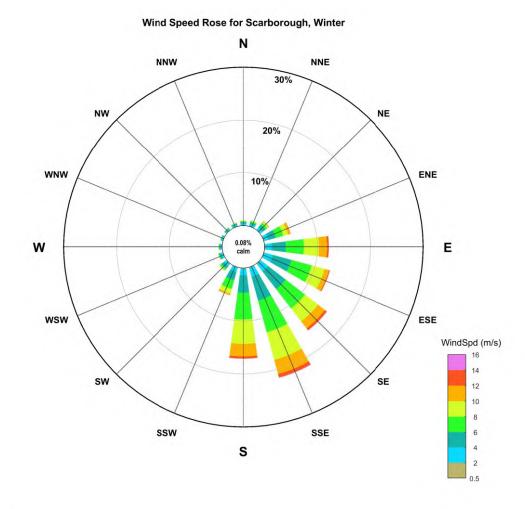
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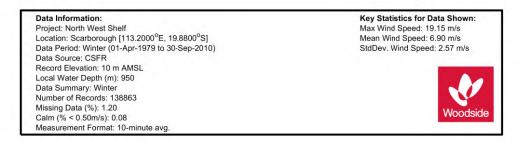


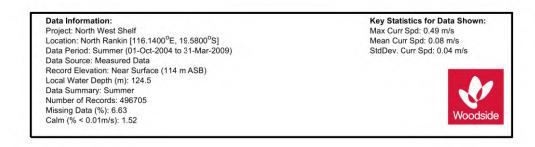
Figure 5. Winter distributions of wind speeds (10-minute at 10 m ASL) by 22.5° directional sectors at the Scarborough site (WEL, 2018). Note tropical cyclone events were not included in this distribution. Winds at Scarborough in winter are predominantly from the S to E driven by the South East Trade Winds over Australia (RPS, 2016).

North-west Shelf

N NNW NNE 20% NW NE 15% 10% WNW **ENE** W E WSW ESE Cs (m/s) 0.25 SW SE

SSE

Current Speed at Near Surface (114 m ASB) Rose for North Rankin, Summer



S

SSW

Figure 6. Summer (Nov-Apr) near surface combined frequency of 1-minute mean current speed and direction (towards) measured at the North Rankin location (cyclones removed) (WEL, 2011).

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0.2

0.1

0.05

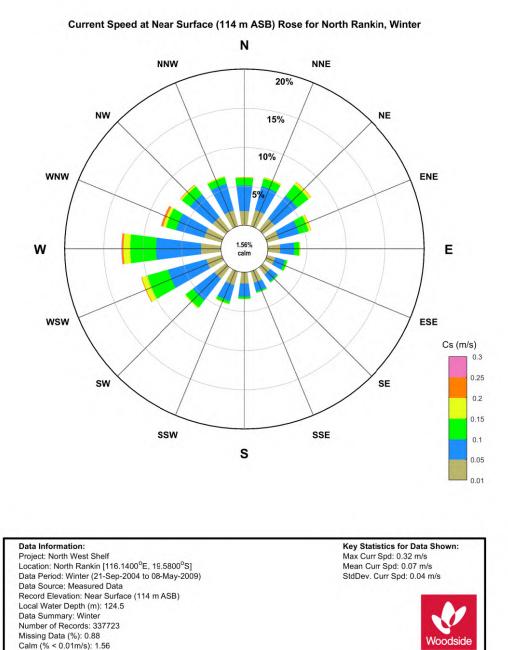


Figure 7. Winter (May-Sep) near surface combined frequency of 1-minute mean current speed and direction (towards) measured at the North Rankin location (cyclones removed) (WEL, 2011).

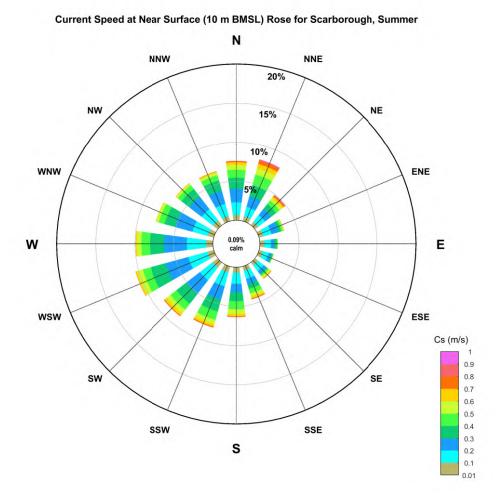
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Scarborough



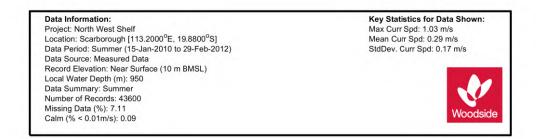
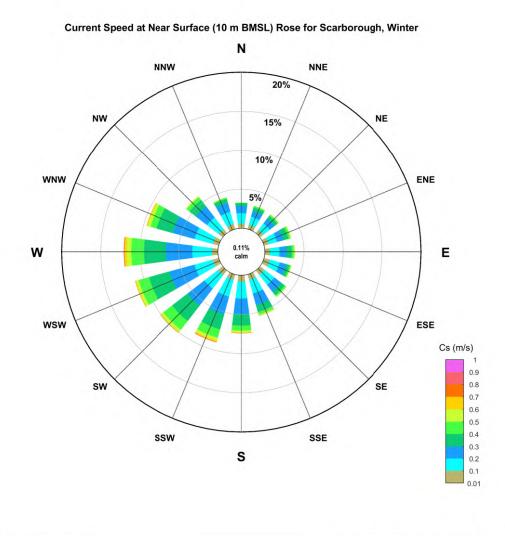


Figure 8. Summer (Nov - April) near surface combined frequency of 1-minute mean current speed and direction (towards) measured at the Scarborough location (cyclones removed) (WEL, 2018).

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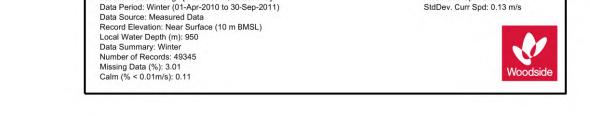


Figure 9. Winter (May-Sep) near surface combined frequency of 1-min mean current speed and direction (towards) measured at the Scarborough location (cyclones removed) (WEL, 2018).

Controlled Ref No: G2000RH1401743486

Data Information:

Project: North West Shelf

Location: Scarborough [113.2000°E, 19.8800°S]

Revision: 0

Woodside ID: 1401743486

Key Statistics for Data Shown:

Max Curr Spd: 1.03 m/s

Mean Curr Spd: 0.25 m/s

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North-west Cape

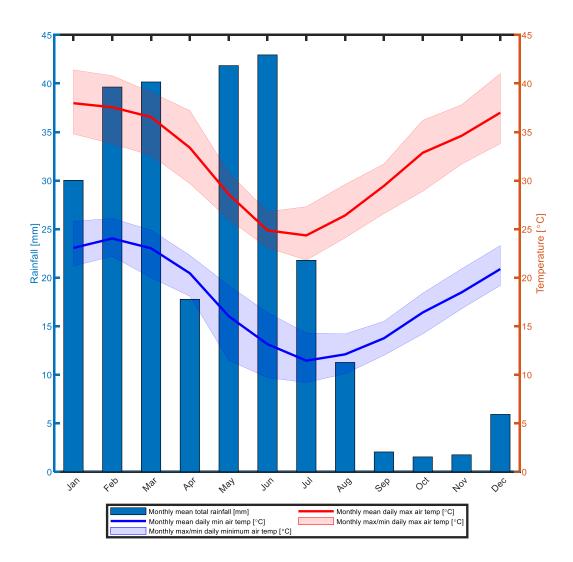
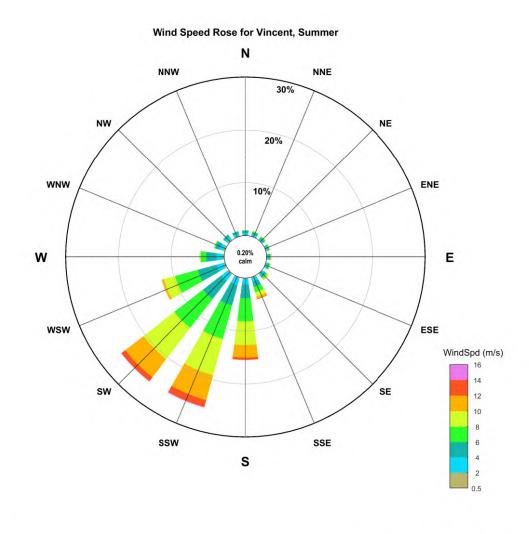


Figure 1. Monthly average total rainfall [mm] and air temperature [°C], calculated based on observations at the Learmonth Airport weather station from 1945-2020 and 1975-2020 respectively (Bureau of Meteorology 2020). Bars show the monthly average total rainfall values, and thick blue and red lines denote monthly average daily minimum and maximum air temperatures, respectively. Shaded blue and red areas denote monthly recorded extremes of daily minimum and maximum air temperature, respectively.



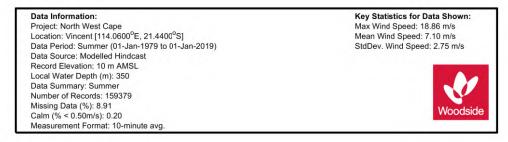


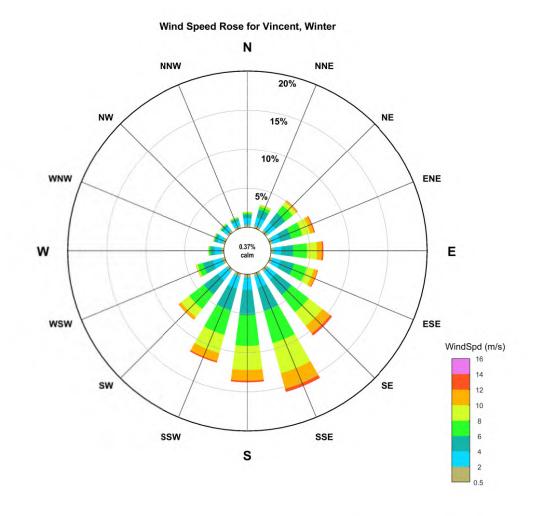
Figure 2. Summer distributions of wind speeds (10-minute at 10 m ASL) by 22.5° directional sectors at the Vincent site (Vincent Metocean). Note tropical cyclone events were not included in this distribution. Winds at Vincent in summer are predominantly from the SW to SSW in summer due to the presence of the Pilbara Heat Low (MetOcean Engineers, 2005).

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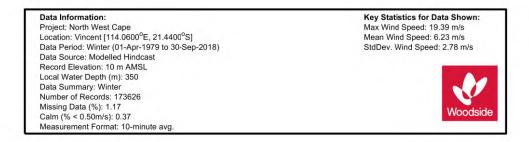


Figure 3. Winter distributions of wind speeds (10-minute at 10 m ASL) 22.5° directional sectors at the Vincent site (Vincent Metocean). Note tropical cyclone events were not included in this distribution. In winter, winds at are predominantly from the S to SE, associated with the South East Trades. Easterly gales are experienced at the Vincent location due to high pressure systems generating from the Great Australian Bight area to the site (MetOcean Engineers, 2005).

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NNW NNE 20% NW NE 15% 10% ENE WNW W E wsw ESE Cs (m/s) 0.6 SW 0.5 0.4 0.3 SSW SSE 02 S 0.1 0.01

Current Speed at Near Surface (340 m ASB) Rose for Vincent, Summer

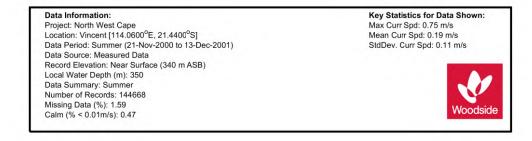


Figure 4. Summer (May – Sep) near surface combined frequency of 1-minute mean current speed and direction (towards) measured at the Vincent location (cyclones removed) (WEL, 2016).

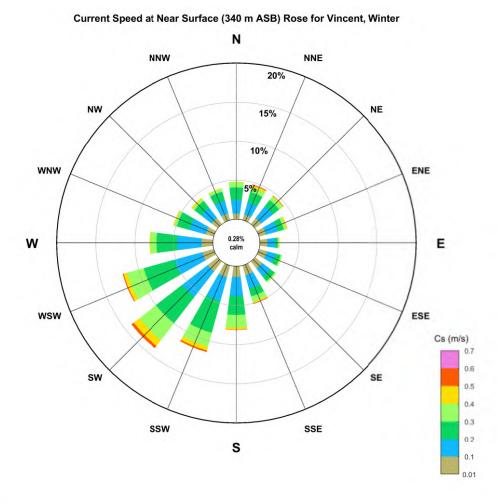
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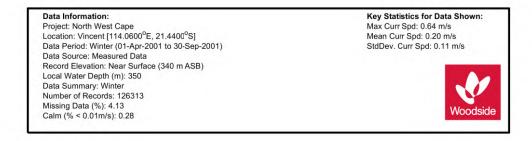


Figure 5. Winter (Nov – Apr) near surface combined frequency of 1-minute mean current speed and direction (towards) measured at the Vincent location (cyclones removed) (WEL, 2016).

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Validation of SWAN ST6 Wave Model", DRIMS 1401150817.

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Programme: September 2006 to February 2008 Final Data Report." CRN: JB0020RT0019.

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WEL 2016. Vincent – Basic Design Data Specification sheet – Metocean CRN: VA0000RT1400067309.

WEL 2015. Winds Measured at North Rankin A 1995-2015.

WEL 2018. Scarborough Development - Non-Cyclonic and Operational Metocean Design Criteria – Spreadsheet, Revision A, CRN: SA0009CT1400722569.

WEL 2019. "Browse Development - Metocean Design Basis" CRN: JJ0013ST1400274448.

APPENDIX J PROGRAM OF ONGOING ENGAGEMENT WITH TRADITIONAL CUSTODIANS

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Proposed Program of Ongoing Engagement with Traditional Custodians

This Program of Ongoing Engagement with Traditional Custodians ("Program") has been developed to demonstrate Woodside's commitment to ongoing engagement and support of Traditional Custodians' capacity to care for and manage Country, including Sea Country, and has been directly informed by Traditional Custodians' feedback regarding their capacity to engage and consult on Environment Plans.

It is a living document designed to evolve with ongoing consultation and feedback from Traditional Custodians and, at a minimum, will be subject to annual review. In addition to this Program, Woodside will continue to participate in, and support collective industry engagement with Traditional Owners on the development of a future, sustainable, industry wide Program. Through the Program, Woodside actively supports Traditional Custodians' capacity for, and involvement in, ongoing engagement and feedback on environment plans.

The Program has been developed so that Traditional Custodians can, on an ongoing basis, provide Woodside with feedback relating to the possible consequences of an activity to be carried out under an environment plan on their functions, interests and activities as they relate to cultural values. This feedback will be evaluated in conjunction with Traditional Custodians and, where necessary, avoidance or mitigation strategies in will be developed in collaboration with Traditional Custodians. How the Program is implemented with specific Traditional Custodians will depend on their stated needs and priorities

The Program is underpinned by Woodside's First Nations Communities Policy (woodside.com), the objective of which is to ensure Woodside partners and engages with First Nations communities to create positive economic, social and cultural outcomes that leave a lasting legacy. Woodside does this through building respectful relationships and partnerships with First Nations communities where we are active, in the areas where they are most interested in. We acknowledge the unique connection that First Nations communities have to land, waters and the environment. .

The Program will include, as agreed with relevant communities, reasonable commitment to:

1. Support for ongoing dialogue and engagement

Woodside will support the capacity of Traditional Custodians to participate in ongoing dialogue and engagement about the environment plans and to enable the ongoing and future identification of cultural values potentially impacted by Woodside's activities. Woodside further commits to agreeing consultation protocols with individual Traditional Custodians to ensure the material provided is appropriate in level of detail such that the potential for cultural impact from Woodside activities can be determined and as required measures can be adopted to avoid or minimise impact.

In addition, Woodside will receive feedback on cultural values from an individual person or organisation that identifies as a Traditional Custodian, at any stage during the development and implementation of activities. This feedback will be evaluated, in conjunction with the Traditional Custodian individual or group and if required, control measures will put in place to avoid impacts to cultural values, or where avoidance is not possible, to minimise and mitigate the impacts to an acceptable level.

Where cultural values are identified post activity completion, any controls relevant to value management will be implemented during the next relevant activity.



2. Support for the identification and recording of cultural features

Woodside will support Traditional Custodians to record and articulate their Sea Country values and will invest in cultural assessments codesigned with Traditional Custodians, where required, to inform potential risks to cultural values from our petroleum activities.

This may include supporting cultural mapping by Traditional Custodians to identify and map significant cultural features including archaeological sites and other cultural values. The scoping of the mapping process will be codesigned with Traditional Custodians.

Woodside understands that cultural knowledge remains the intellectual property of Traditional Custodians and will agree with Traditional Custodians at the outset how that information from surveys will be used to feedback into and inform the environment plan's design and implementation.

In addition, Woodside applies the Cultural Heritage Management Procedure 2019, updated in 2023, to the Program which:

- provides a process for the identification, protection, and management of Cultural Heritage taking into account relevant standards, in particular, the United Nations Declaration on the Rights of Indigenous Peoples, the Charter for the Protection and Management of the Archaeological Heritage, the Convention for the Safeguarding of the Intangible Cultural Heritage, and the Convention on the Protection of the Underwater Cultural Heritage;
- applies to underwater cultural heritage and, consistent with current practice, provides for the commissioning of (where appropriate) both archaeological and ethnographic assessments of cultural values over the submerged landscape; and
- the process includes the following:
 - early engagement with relevant Traditional Custodians
 - identification of potential heritage, this could include desktop and field surveys undertaken with the Traditional Custodians.
- the development of cultural management strategies; and, where it is determined cultural heritage may be impacted, the development of Cultural Heritage Management Plans codesigned with Traditional Custodians and implemented by Woodside's First Nations team which:
 - o focus on avoidance or minimisation of impacts; and
 - o provide regular reviews and for inclusion of new information and further development of the Cultural Heritage Management Plan.

Woodside is committed to continue to receive feedback on cultural values for the life of an environment plan, the inclusion of new information and the development of avoidance or mitigation strategies in collaboration with Traditional Custodians. This information will be recorded via the Woodside Management of Knowledge Process and any potential impacts to the accepted Environment Plan evaluated via the Woodside Management of Change Process.

3. Building capacity for the ongoing protection of country

Woodside will support measures to increase the capability and capacity of the Traditional Custodian groups. This is guided by Woodside's Indigenous Affairs Strategy 2019 ("Strategy"), which is designed to enable the building and maintaining of relationships with Traditional Custodians to leave a lasting legacy, including strengthening of Traditional Custodians' capacity to care for and manage Country, including Sea Country. The Strategy was developed with inputs from Traditional Custodians and contains four pillars that direct Woodside's social investment, policies relating to economic development, procurement and employment, and Woodside's agreement making and implementation of agreements. The pillars are:

- 1. Culture and Heritage Management: support social outcomes through protection, recognition and respect for culture and heritage;
- 2. Economic Participation: provide training, jobs, and business opportunities;



- 3. Capability and capacity: ensure strong corporate governance, leadership development and education initiatives to support self-determination; and
- 4. Safer and Healthier Communities: partner with Aboriginal people and service providers to maximise safer and healthier community outcomes.

Woodside is committed to an ongoing relationship between Woodside and the Traditional Custodian groups. Through consultation with Traditional Custodians Woodside will continue to:

- establish support for Indigenous ranger programs via social investment;
- establish support for Indigenous oil spill response capability via investigating training models;
- establish support for identification and recording of cultural values and the management of that information by Traditional Custodians;
- establish support for programs identified by the Traditional Custodians as important to them and as agreed by Woodside.

4. Support for capacity and capability in relation to governance

Pillar 3 of the Indigenous Affairs Strategy 2019 focuses on ensuring strong corporate governance, leadership development and education initiatives to support self-determination. To enable this, Woodside will support measures to increase the capability and capacity of the Traditional Custodian groups, including in relation to governance and management systems.

The nature of this support will be informed by the individual needs of Traditional Custodian groups, but may include:

- funding or other support for community meetings, particularly where consultation with representative bodies lies outside of that body's core business and cultural authority or mandate needs to be secured,
- resourcing internal expertise so that information is managed consistently and internally, including ensuring appropriate record keeping of consultation to provide stakeholders with a lasting record of discussions, and
- development or upgrade of IT systems to manage information.

5. Program Reporting and Review of Effectiveness

Woodside will undertake an annual review of the Program to assess its effectiveness and adapt the Program accordingly. The annual review will also include an assessment of appropriateness of the methods used to undertake ongoing consultation with Traditional Custodians.

Progress of the Program will be reported annually in line with annual sustainability reporting via the Woodside website.

A commitment to the Program will be included in all new and revised Environment Plans in the format below:



Environmental **Environmental Performance standards** Measurement Criteria **Performance Outcome** Applicable to all EPs: MC1.1 **EPO 1** Records demonstrate Woodside will actively support Traditional **EPS 1.1** discussions with Custodians' capacity for Implement a program, which is compliant relevant Traditional ongoing engagement with Corporate Woodside Policies Strategies Custodian Groups on and consultation on and procedures, to undertake ongoing proposed partnerships environment plans for consultation with Traditional Custodians and/or initiatives initiated the purpose of avoiding whose functions, interests and activities may by Woodside, and impacts to cultural be affected by the Petroleum Activities responses to feedback provided by Woodside heritage values Program. The Program will include, where agreed with relevant Traditional Custodians: within 4 weeks Social investment to support Indigenous MC 1.2 ranger programs Progress of the Program Support for Indigenous oil spill response will be reported in line capabilities with annual Support for recording Sea Country sustainability reporting values via the Woodside Support to Traditional Custodian groups website. to build capabilities and capacity with respect to ability to engage with MC 1.3 Woodside and the broader O&G industry Records demonstrate on activities Change Management Development of ongoing relationships and Management of with Traditional Custodian groups Knowledge processes Any other initiatives proposed for the have been followed purpose of protecting country including where new controls or cultural values management measures Consideration of new cultural values / identified new information, through the life of the EP, and the development of avoidance or mitigation strategies in collaboration with Traditional Custodians if impacts to cultural values are identified. Where avoidance is not possible, impact minimisation will be prioritised and demonstrated through a written options analysis / ALARP to ensure an acceptable level of impact. This will be documented through Woodside's Management of Change and Management of Knowledge processes. **EPS 1.2** MC 1.4 Undertake an annual review of the program Records demonstrate an to determine its effectiveness and adapt the annual review of the program accordingly. The annual review will Program has been also include an assessment of undertaken appropriateness of the methods used to undertake ongoing consultation with Traditional Custodians.



6. Current Status

Following distribution of this proposed Program, Woodside is now participating in a number of specific ongoing consultation activities with Traditional Custodian Relevant Persons. Specific ongoing activities are tabulated below:

Traditional Custodian Relevant Person	Ongoing Consultation Description	Forward Plan	Estimated Timeframes
Buurabalayji Thalanyji Aboriginal Corporation (BTAC)	Refer to EP Section 7.5 – Thalanyji Sea Country Management. BTAC proposed a Collaboration Agreement in May 2023, Woodside agreed in principle, and exchanged correspondence to understand details of the proposal. The Collaboration Agreement would enable support for BTAC to undertake an ethnographic assessment to articulate values, and ensure appropriate cost recovery	Refer to EP Section 7.5 – Thalanyji Sea Country Management Woodside and BTAC have executed a Costs Acceptance Letter. Woodside has developed a Collaboration Agreement which is currently under internal Woodside review. Once settled internally it will be put to BBTAC for their consideration.	Refer to EP Section 7.4 – Thalanyji Sea Country Management. The draft Collaboration Agreement will be provided to BTAC for consideration in October 2023. Woodside will follow up on a monthly basis for at least six months with BTAC once they are in receipt of the draft proposed Collaboration Agreement from Woodside, or until the Agreement is in place.
Yamatji Marlpa Aboriginal Corporation (YMAC)	In June 2023, YMAC provided Woodside a proposed draft Framework Agreement, and a proposal to fund in-house expertise to support consultation and implement the Collaboration Framework. In July 2023, Woodside agreed in principle to the proposed Collaboration Framework and the funding proposal and requested a meeting to work together on details. Woodside provided the Proposed Program of Ongoing Consultation to complement the proposed Collaboration Framework.	Woodside will continue to communicate with YMAC, seeking to collaborate and reach agreement on the proposed Collaboration Framework and funding agreement. At the point of EP submission, Woodside is seeking a meeting with YMAC at YMAC's earliest convenience.	Woodside will follow up with YMAC on a monthly basis for at least six months, seeking to progress the Collaboration Framework and funding agreement.
Wirrawandi Aboriginal Corporations (WAC)	In August 2023, WAC proposed a Framework Agreement with Woodside to provide a streamlined, formalised approach to consultation between WAC and Woodside. Woodside has confirmed receipt of the proposed framework from WAC.	Woodside is in contact with the WAC CEO and is currently developing a response to the proposed Framework Agreement put forward by WAC. WAC do not object to Woodside progressing environmental plans on the proviso that both parties enter into an Agreement suitable to each party. WAC have suggested a timeframe to settle the Agreement over the next 2-3 months. Woodside will be aiming to reach agreement within a shorter timeframe.	Ongoing Framework Agreement settled in 2023.
Ngarluma Aboriginal Corporation (NAC)	In September 2023, NAC proposed a Joint Working Group to practically manage consultation processes. It was proposed that the group would meet monthly for 2023 and quarterly thereafter, meetings would include NAC CEO and NAC Directors and potentially independent SME/s, the proposal was that Woodside draft a Framework Agreement, and included a request for funding for this approach. Woodside provided in-principle support for the proposal.	Woodside has provided in-principle support for NAC's proposal and is currently developing a draft Framework Agreement which once settled internally will be sent to NAC for their response.	In accordance with NAC's proposed timeframe, Woodside aims to prepare a draft Framework Agreement, settle internally and then meet to discuss in 2023.



Nganhurra Thanardi Garrbu Aboriginal Corporation (NTGAC)	In a meeting during August 2023, NTGAC proposed a Framework Agreement. This included terms for ongoing engagement such as frequency of consultation, participation, and content. NTGAC has also requested Woodside provide funding for an inhouse environmental scientist to review material. Woodside agreed in principle to this approach, and has requested a first draft of the Framework Agreement for consideration. Woodside have agreed to pay for YMAC's in-house scientist to attend NTGAC meetings to advise NTGAC.	Woodside and NTGAC/YMAC have agreed in writing to develop a Framework Agreement. Woodside have been responding to queries from NTGAC who have passed information provided by Woodside onto their Environmental Scientist. Woodside are awaiting a proposed draft of a Framework Agreement and general report. YMAC's preference is to prepare the drafts, Woodside have offered to assist with drafting and remain ready to respond on receipt of documents.	Woodside will follow up with NTGAC on a monthly basis for at least six months, seeking to progress the Framework Agreement and General report.
Yinggarda Aboriginal Corporation (YAC)	In August 2023, YAC requested Woodside provide a draft Framework Agreement for their consideration. Woodside has provided a draft Framework Agreement to YAC for review.	Woodside's Proposal suggests meeting with YAC every 3 months to progress matters. The Proposal suggests committing to work continuing between meetings with each party nominating focal points. A Scope of Work and schedule of rates is included to re-imburse the cost of ongoing consultation. Woodside's Proposal includes timeframes for anticipated milestones and has suggested the Proposal be in place for an initial 2-year period. Woodside has provided the draft Framework Agreement to YAC; they have advised that they will seek direction from the YAC Board on the proposal.	Woodside will continue following up with YAC on a monthly basis for at least six months, seeking to progress the Framework Agreement.
Robe River Kuruma Aboriginal Corporation (RRKAC)	RRKAC have noted that they are insufficiently resourced to engage further and respond to Woodside regarding EPs. Woodside assesses that a Framework Agreement could address this.	Woodside has on several occasions written to RRKAC offering to fund consultation meetings. Woodside will offer RRKAC a Framework Agreement which will propose funding, scope of work and timeframes to assist with consultation and ongoing consultation. If RRKAC are open to the proposal, it is intended to put forward a draft Framework Agreement to RRKAC within the next 2 months.	Woodside will follow up with RRKAC monthly for at least six months, seeking to progress a Framework Agreement.
Ngarluma Yindjibarndi Foundation Limited (NYFL)	NYFL and Woodside have an existing Agreement in place which enables quarterly communication about Woodside activities. NYFL has said they are working with other First Nations organisation and representative Bodies developing a Framework Agreement.	Woodside has not yet seen a draft of the Framework Agreement. Woodside's expectation is that it will outline principles of engagement, details of resourcing, timeframes to meet agreed outcomes etc. Woodside look forward to receiving a draft Agreement and will engage with NYFL to settle on the details of any proposal.	Woodside will continue to follow up monthly with NYFL for at least six months, seeking to progress a Framework Agreement.