

**INPEX**

# **Exploration Drilling WA-285-P & WA-343-P Environment Plan**



## Environment plan summary

This environment plan summary has been prepared from material provided in this environment plan (EP). The summary consists of the following as required by Regulation 11(4) of the OPGGS (E) Regulations 2009:

EP summary and material requirement	Relevant section of EP containing EP summary material
The location of the activity	Section 3.1
A description of the receiving environment	Section 4
A description of the activity	Section 3
Details of the environmental impacts and risks	Sections 7 and 8
The control measures for the activity	Sections 7 and 8
The arrangements for ongoing monitoring of the titleholders environmental performance	Sections 9.11, 9.12 and 9.13
Response arrangements in the oil pollution emergency plan	Sections 8.4, 8.5 and INPEX Browse Regional OPEP
Consultation already undertaken and plans for ongoing consultation	Sections 5 and 9.8.3
Details of the titleholders nominated liaison person for the activity	Section 1.4

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## Terms, abbreviations and acronyms

Term, abbreviation or acronym	Meaning
%	percent
°C	degrees Celsius
ACMA	Australian Communications and Media Authority
AFMA	Australian Fisheries Management Authority (Cwlth)
AHO	Australian Hydrographic Office
AHSV(s)	anchor-handling supply vessel(s)
AIMS	Australian Institute of Marine Science
AIS	automatic identification system
ALARP	as low as reasonably practicable
AMOSC	Australian Marine Oil Spill Centre
AMP	Australian marine park
AMSA	Australian Maritime Safety Authority (Cwlth)
APPEA	Australian Petroleum Production and Exploration Association
AR-AFFF	alcohol resistant aqueous film-forming foam concentrates
ARMA	Aquatic Resources Management Act 2016 (WA)
ARP	applied research program
AUCHD	Australasian underwater cultural heritage database
BAT	best available technique
BIA	Biologically Important Area
BMS	business management system
BOCP	Blowout contingency plan
BOM	Bureau of Meteorology
BOP	blowout preventer
Bq/l	becquerels per litre
BROPEP	Browse Regional Oil Pollution Emergency Plan
BROPEP – BOD/FCA	Browse Regional Oil Pollution Emergency Plan - Basis of Design/Field Capability Assessment

Term, abbreviation or acronym	Meaning
BROPEP - IMTCA	Browse Regional Oil Pollution Emergency Plan – Incident Management Team Capability Assessment
BTEX	benzene, toluene, ethylbenzene, xylenes
BWM	ballast water management
CAMBA	China-Australia Migratory Bird Agreement
Cd	cadmium
CHARM	chemical hazard assessment and risk management
COLREGs	International Regulations for Preventing Collisions at Sea 1972
CPF	central processing facility ( <i>Ichthys explorer</i> )
CRWG	community relations working group
CTS	craft tracking system
CW	Cooling water
Cwlth	Commonwealth
dB	decibel
DBCA	Department of Biodiversity, Conservation and Attractions (WA)
DCCEEW	Department of Climate Change, Energy, the Environment and Water formerly the Department of Agriculture, Water and the Environment (Cwlth)
DMIRS	Department of Mines, Industry Regulation and Safety WA (formerly Department of Mines and Petroleum)
DNP	Director of National Parks (Cwlth)
DP	dynamically positioned
DPIRD	Department of Primary Industries and Regional Development (WA)
DSEWPaC	Department of Sustainability, Environment, Water, Population and Communities
DST	drill stem test
EAA	East Asian–Australasian
EEZ	exclusive economic zone
EHS	environment, health and safety
EIAPP	Engine International Air Pollution Prevention

Term, abbreviation or acronym	Meaning
EIS	environmental impact statement
EMBA	environment that may be affected
EP	environment plan
EPBC Act	<i>Environment Protection and Biodiversity Conservation Act 1999</i> (Cwlth)
EPBC regulations	Environment Protection and Biodiversity Conservation Regulations 2000
EPO	environmental performance outcome
EPS	environmental performance standard
ESD	ecological sustainable development
FFFP	film forming fluoro protein foam
FLNG	floating liquified natural gas
FPSO	Floating, production, storage and offloading ( <i>Ichthys venturer</i> )
g/m <sup>2</sup>	grams per square metre
g/m <sup>3</sup>	grams per cubic metre
GHG	greenhouse gas (such as carbon dioxide and methane)
GT	gross tonnes
Hg	mercury
HQ	hazard quotient
HSE	health, safety and environment
Hz	hertz
IAPP	International Air Pollution Prevention
IBA	important bird area
IEE	International Energy Efficiency
IFC	International Finance Corporation
IMO	International Maritime Organization
IMS	invasive marine species
IMT	incident management team
INPEX	INPEX Browse E&P Pty Ltd

Term, abbreviation or acronym	Meaning
INPEX Australia	Australian subsidiaries of INPEX Corporation including INPEX Browse E&P Pty Ltd
IOGP	International Association of Oil and Gas Producers
IOPP	International Oil Pollution Prevention
IPA	Indigenous protected area
ISPPC	International Sewage Pollution Prevention Certificate
ISO	International Organization for Standardization
ITOPF	International Tanker Owners Pollution Federation Limited
IUCN	International Union for Conservation of Nature
JAMBA	Japan–Australia Migratory Bird Agreement
JRCC	joint rescue coordination centre
KEF	key ecological feature
kg/m <sup>3</sup>	kilograms per cubic metre
kHz	kilohertz
km	kilometre(s)
km <sup>2</sup>	square kilometres
L	litre(s)
LAT	lowest astronomical tide
LC <sub>50</sub>	Lethal concentration 50. Lethal concentration in which 50% of the population will be killed in a given period of time
LLR	lower limits of reporting
LNG	liquefied natural gas
LOR	limit of reporting
LPG	liquified petroleum gas
LWD	logging while drilling
m	metre
m <sup>2</sup>	square metres
m <sup>3</sup>	cubic metres

Term, abbreviation or acronym	Meaning
m <sup>3</sup> /d	cubic metres per day
m/m	mass-for-mass
m/s	metres per second
MARPOL	International Convention for the Prevention of Pollution from Ships, 1973/1978
MBES	multi beam echo sounder
MDRT	measured depth below the rotary table
mg/L	milligrams per litre
MGO	marine gas oil
MMscf	million standard cubic feet
mm/h	millimetres per hour
MMO	marine mammal observer
MNES	Matters of National Environmental Significance
MNP	marine national park
MoC	management of change
MODU	mobile offshore drilling unit
MoU	memorandum of understanding
MP	marine park
MSI	Maritime Safety Information
NatPlan	National Plan for Maritime Environmental Emergencies
NDC	nationally determined contribution
nm	nautical mile
NMR	north marine region
non-GHG	Non-GHG such as sulphur oxides and nitrogen oxides
NOPSEMA	National Offshore Petroleum Safety and Environmental Management Authority
NOPTA	National Offshore Petroleum Titles Administrator
NORMs	Naturally occurring radioactive materials



Term, abbreviation or acronym	Meaning
NOx	mono-nitrogen oxides
NRSMPA	National Representative System of Marine Protected Areas
NT	Northern Territory
NT DIPL	Northern Territory Department of Infrastructure, Planning and Logistics
NT DITT	Northern Territory Department of Industry, Trade and Tourism
NTG	Northern Territory Government
NTSC	Northern Territory Seafood Council
NWCS	North west cable system
NWMR	North west marine region
NWS	North west shelf
OCNS	Offshore Chemical Notification Scheme
ODS(s)	ozone-depleting substance(s)
OEM	original equipment manufacturer
OIM	offshore installation manager
OIW	Oil in water
OoC	oil-on-cuttings
OPEP	oil pollution emergency plan
OPGGS Act	<i>Offshore Petroleum and Greenhouse Gas Storage Act 2006</i> (Cwlth)
OPGGS (E) Regulations	Offshore Petroleum and Greenhouse Gas Storage (Environment) Regulations 2009 (Cwlth)
OSMP	operational and scientific monitoring program
OSPAR	<b>The 1992 OSPAR Convention ("Convention for the protection of the marine environment of the north-east Atlantic")</b>
OWD	oil-in-water dispersions
OWS	oil-water separator
PAH(s)	polycyclic aromatic hydrocarbon(s)
PDCA	plan, do check, act

Term, abbreviation or acronym	Meaning
PEZ	potential exposure zone (the area exposed to hydrocarbons in the event of a worst-case credible oil spill, established using low exposure thresholds)
PLONOR	pose little or no risk (to the environment)
POB	personnel on board
POTS Act	<i>Protection of the Sea (Prevention of Pollution from Ships) Act 1983</i>
ppb	parts per billion
ppm	parts per million
ppt	parts per thousand
PSD	particle size distribution
PSV	platform supply vessel
PSZ	petroleum safety zone
PTS	permanent threshold shift
PTW	permit to work
PW	produced water
Ramsar Convention	The Convention on Wetlands of International Importance, especially as Waterfowl Habitat (the Ramsar Convention)
RMR	riserless mud return
RO	reverse osmosis
ROKAMBA	Republic of Korea- Australia Migratory Bird Agreement
ROV	remotely operated (underwater) vehicle
SBM	synthetic-based mud
SCE	solids control equipment
SCERP	source control emergency response plan
SDAP	sub-district administrative posts
SEEMP	ship energy efficiency management plan
SIMA	spill impact mitigation assessment
SME	subject matter expert
SMPEP	shipboard marine pollution emergency plan

Term, abbreviation or acronym	Meaning
SOLAS	International Convention for the Safety of Life at Sea
SOPEP	shipboard oil pollution emergency plan
SPL	sound pressure level
SPRAT	species profile and threats (DAWE database)
STP	sewage treatment plant
SWASP	State-wide array surveillance program
T	tonne
TD	total depth
TSS	total suspended solids
TTS	temporary threshold shift
UNEP	United Nations Environment Programme
VOC(s)	volatile organic compound(s)
VSP	vertical seismic profiling
WA	Western Australia
WA-285-P	Exploration permit area within the Browse basin
WA-343-P	Exploration permit area within the Browse basin
WA DoT	Department of Transport (WA)
WAFIC	Western Australian Fishing Industry Council
WBM	water-based mud
WCSS	worst-case spill scenario
WOMP	well operations management plan
Worst credible discharge	The worst-case credible discharge from a loss of containment scenario used to inform the blowout modelling (OLGA model) in this EP assumes the wellbore is free from all restrictions, there are no restrictions at the wellhead and the hole section is fully drilled.
WSF	water-soluble fraction
wt/wt	weight per weight
$\mu\text{Pa}$	micropascal
$\mu\text{g/l}$	micrograms per litre

# 1 INTRODUCTION

## 1.1 Scope

INPEX Browse E&P Pty Ltd. (hereafter referred to as INPEX) is proposing to drill two exploration wells in the Browse Basin: one in exploration permit area WA-285-P and one in WA-343-P (Figure 1-1).

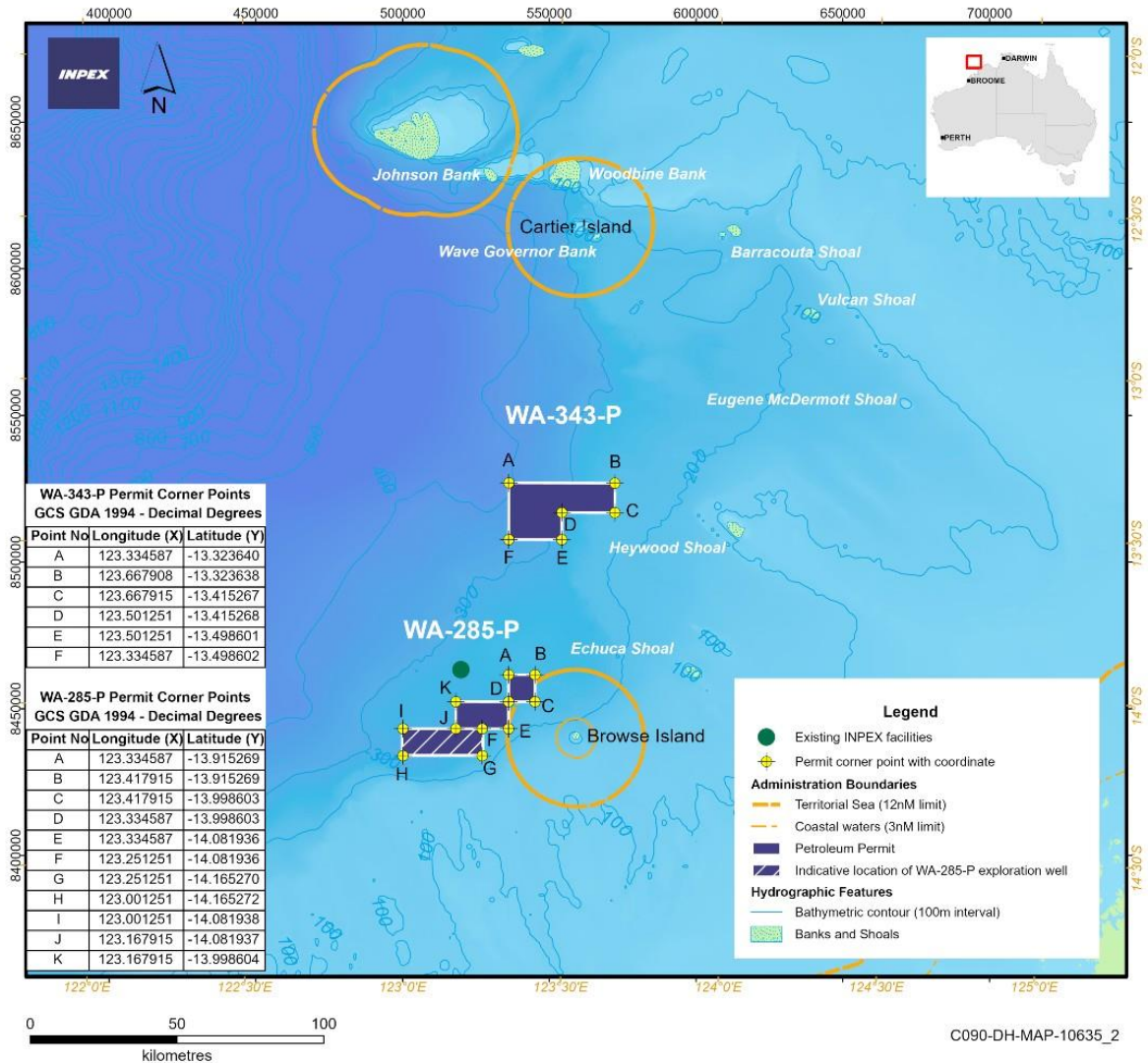


Figure 1-1: Location of exploration permits WA-285-P and WA-343-P

The WA-285-P and WA-343-P exploration permit areas are located wholly within Commonwealth waters approximately 230 km from the Kimberley coastline, Western Australia (WA), in water depths of approximately 290 m and 350 m respectively. The proposed petroleum activity covered by this environment plan (EP) will consist of a pre-drill site survey, and the drilling and evaluation of an exploration well in each of WA-285-P and WA-343-P.

Within each exploration permit area, following a pre-drill site survey, drilling will be conducted using a semi-submersible mobile offshore drilling unit (MODU) which will be either physically anchored to the seabed or dynamically positioned (DP). It is anticipated that two anchor handling supply vessels (AHSVs) and one platform supply vessel (PSV) will be needed to provide support for the drilling activity. Personnel transfers to and from the MODU will be by helicopter several times per week.

The pre-drill site surveys are expected to be conducted in the first half of 2023, with drilling scheduled to commence in the second half of 2023. However, for contingency purposes subject to MODU availability, operational efficiencies, weather and analysis of geophysical data collected during the pre-drill site survey, this EP allows for activities to occur anytime between calendar years 2023 and 2025.

The scope of this EP does not include the movement of vessels, helicopters or MODUs outside of the exploration permit areas (e.g. travel to and from WA-285-P and WA-343-P). These activities will be undertaken in accordance with other relevant maritime and aviation legislation; most notably, the *Navigation Act 2012* (Cwlth) and *Civil Aviation Act 1988* (Cwlth).

## 1.2 Objectives

The objectives of this EP are to:

- demonstrate that the environmental impacts and risks associated with the petroleum **activity have been reduced to 'as low as reasonably practicable' (ALARP) and are of an acceptable level**
- establish appropriate environmental performance outcomes, environmental performance standards and measurement criteria in relation to the operation of the facility
- define an appropriate implementation strategy and monitoring, recording and reporting arrangements, whereby compliance with this EP, the Offshore Petroleum and Greenhouse Gas Storage (Environment) Regulations 2009 (Cwlth) (OPGGS (E) Regulations), and other relevant legislative requirements, can be demonstrated
- demonstrate that INPEX has carried out the consultations required by the OPGGS (E) Regulations
- demonstrate that the measures adopted by INPEX, arising from the consultation process, are appropriate
- demonstrate that the petroleum activity complies with the *Offshore Petroleum and Greenhouse Gas Storage Act 2006* (OPGGS Act) and the OPGGS (E) Regulations.

## 1.3 Overview of activity description

Table 1-1 provides an overview of the exploration drilling activities to be undertaken under this EP.

Table 1-1: Overview of the activity description

Item	Description
Exploration permit area WA-285-P	
Basin	Browse
Reservoirs	Primary: Upper Brewster Member and Plover Formation

Item	Description
	Secondary: Tithonian Sandstone
Activity location	Wholly located within Commonwealth waters approximately 360 km north of Derby, Western Australia in the North-West Marine Region (NWMR) of the Timor Sea. Approximately 45 km south of exploration permit WA-343-P at its closest point.  The exact location of the exploration well and pre-drill site survey is yet to be finalised; however, they will be located within the south western portion of the WA-285-P permit area as indicated by the shaded area in Figure 1-1, approximately 40 km from Browse Island at its closest point.
Well type	Exploration
Hydrocarbon type	Gas and condensate
Water depth	Approximately 290 m at Lowest Astronomical Tide (LAT).
MODU and vessels	Survey vessel, MODU (semi-submersible either moored or DP), AHSVs, PSVs and other support vessels.
Activities	Pre-drill site survey and drilling & evaluation of an exploration well targeting the Brewster and Plover reservoirs in the WA-285-P permit area.
Earliest activity commencement	Pre-drill site survey in WA-285-P: H2 2023 Drilling activities: H2 2023
Duration	Continual operations, 24 hours a day Pre-drill site survey: approximately 10 days Drilling activities: approximately 95 days.
Exploration permit area WA-343-P	
Basin	Browse
Reservoirs	Plover formation
Activity location	Wholly located within Commonwealth waters, approximately 425 km north of Derby, Western Australia in the NWMR of the Timor Sea. Approximately 45 km north of exploration permit WA-285-P at its closest point.  The exact location of the exploration well and pre-drill site survey is yet to be finalised; however, they will fall within the boundaries of the WA-343-P permit area.
Well type	Exploration
Hydrocarbon type	Gas and condensate
Water depth	Approximately 350 m LAT.

Item	Description
MODU and vessels	Survey vessel, MODU (semi-submersible either moored or DP), AHSVs, PSVs and other support vessels.
Activities	Pre-drill site survey and drilling & evaluation of an exploration well targeting the Plover reservoir in the WA-343-P permit area.
Earliest activity commencement	Pre-drill site survey in WA-343-P: H2 2023 Drilling activities: H2 2023
Duration	Continual operations, 24 hours a day Pre-drill site survey: approximately 10 days Drilling activities: approximately 150 days.

#### 1.4 Titleholder details

INPEX Browse E&P Pty Ltd is the sole titleholder for exploration permit WA-343-P. INPEX Browse E&P Pty Ltd is a joint titleholder of exploration permit area WA-285-P and has been nominated as the single titleholder for the purposes of taking eligible voluntary actions under subsection 775B of the OPGGS Act, such as making submissions.

In accordance with Regulation 15(1) of the OPGGS (E) Regulations, details of the titleholder are described in Table 1-2. INPEX will be responsible for ensuring that activities covered in this EP are carried out in accordance with the OPGGS (E) Regulations, this EP and other applicable Australian legislation.

In accordance with Regulation 15(2) of the OPGGS (E) Regulations, details of the **titleholder's nominated** liaison person are provided in Table 1-3.

Table 1-2: Titleholder details

Name	INPEX Browse E&P Pty Ltd (INPEX)
Business address	Level 22, 100 St Georges Tce, Perth, WA 6000
Telephone number	+61 8 6213 6000
Fax number	+61 8 6213 6455
Email address	enquiries@inpex.com.au
ABN	65 165 711 017

Table 1-3: Titleholder nominated liaison person

Name	Jake Prout
Position	Environmental Operations Team Lead
Business address	Level 22, 100 St Georges Tce, Perth, WA 6000
Telephone number	+61 8 6213 6000
Email address	jake.prout@inpex.com.au

##### 1.4.1 Notification arrangements

In the event that the titleholder, nominated liaison person or contact details for the nominated liaison person change, INPEX will notify the regulator in accordance with Regulation 15(3) of the OPGGS (E) Regulations.

## 1.5 Financial assurance

Financial assurance for the titleholder's liabilities for cleaning up, remediating and monitoring the impact of a petroleum release has been calculated using the APPEA (2018) methodology for estimating levels of financial assurance based on the maximum credible loss scenario from a loss of well containment.

Declarations of financial assurance will be provided in relation to both titles prior to acceptance of this EP by the National Offshore Petroleum Safety and Environmental Management Authority (NOPSEMA).



## 2 ENVIRONMENTAL MANAGEMENT FRAMEWORK

### 2.1 Corporate framework

**INPEX's Business Management System (BMS) is a comprehensive, integrated system that includes standards and procedures necessary for the management of health, safety and environment (HSE) risks.**

The INPEX health, safety, security, environment and quality policy sets the direction and minimum expectations for environmental performance and is implemented through the standards and procedures of the BMS. The BMS and health, safety, security, environment and quality policy are further described in Section 9 in accordance with Regulation 16(a) of the OPGGS (E) Regulations.

### 2.2 Legislative framework

In accordance with Regulation 13(4) of the OPGGS (E) Regulations, the legislative framework relevant to the activity is listed in Table 2-1. A summary of applicable industry standards and guidelines is also presented in Table 2-2. Ongoing management of legislative and other requirements is described further in in Section 9.8.1.

Table 2-1: Summary of applicable legislation

Legislation	Description	Requirements	Demonstration of how requirements are met in EP
<p><i>Environment Protection and Biodiversity Conservation Act 1999</i> (EPBC Act; Cwlth) and</p> <p>Environment Protection and Biodiversity Conservation Regulations 2000 (EPBC Regulations)</p>	Provides for the protection and management of nationally and internationally important flora, fauna, ecological communities, and heritage places.	<p>The OPGGS (E) Regulations were revised in February 2014 to include the requirement that matters protected under Part 3 of the EPBC Act are considered and any impacts are at acceptable levels.</p> <p>Part 8 of the EPBC Regulations outlines requirements for vessels when interacting with cetaceans.</p> <p>EPBC Act Policy Statement 2.1 provides a framework for minimising the risk of injury to whales by outlining requirements for vertical seismic profiling.</p> <p><b>The EPBC Act provides for protection of 'matters of national environmental significance' including not only listed species</b> but also heritage properties and Ramsar wetlands. There are exemptions covering provisions of Part 3 and 13 of the EPBC Act, for the undertaking of activities when responding to maritime environmental emergencies, in accordance with the National Plan for Marine Environmental Emergencies (NatPlan).</p> <p>Australian Marine Parks (AMPs) are proclaimed under this Act and associated management plans are enacted under this legislation.</p>	<p>Section 4.3 – Australian marine parks</p> <p>Section 7.6.1 – Physical presence of vessels and Section 7.4.2 interaction with marine fauna</p> <p>Section 7.3 – Noise and vibration</p> <p>Section 8 – Emergency conditions</p> <p>INPEX Browse Regional Oil Pollution Emergency Plan (OPEP)</p> <p>A demonstration of how this EP addresses the relevant conservation management documents related to EPBC Act listed species has been presented in Appendix A.2.</p>
<p>OPGGS Act and</p> <p>OPGGS (E) Regulations (Cwlth)</p>	The OPGGS Act provides the regulatory framework for petroleum exploration, production and greenhouse gas activities in Commonwealth waters.	The OPGGS Act (Section 616) details the requirement for a Petroleum Safety Zone (PSZ). The PSZ is in place for the purposes of protecting a well, structure or any equipment, in an offshore area, by notice published in the Gazette, administered by NOPSEMA.	<p>Section 3.3.1 – Well abandonment</p> <p>Section 7.6.1 – Physical presence – disruption to other marine users</p> <p>Section 8.3 - Vessel collision</p> <p>Implementation of the BMS.</p>

Legislation	Description	Requirements	Demonstration of how requirements are met in EP
	The OPGGS (E) Regulations under the OPGGS Act require a titleholder to have an accepted plan in place for an activity.	Section 572(2) and (3) of the OPGGS Act requires titleholders to maintain all structures, equipment and property in a title area in good condition and repair, and to remove all structures, equipment and property when it is neither used nor to be used in connection with operations authorised by the title.  The OPGGS (E) Regulations require that the activity is undertaken in an ecologically sustainable manner, and in accordance with an accepted EP.	
<i>Navigation Act 2012</i> (Cwlth)	The primary legislation that regulates ship and seafarer safety, shipboard aspects of protection of the marine environment, and employment conditions for Australian seafarers.	The <i>Navigation Act 2012</i> includes specific requirements for safe navigation, including systems, equipment and practices consistent with the International Convention for the Safety of Life at Sea (SOLAS) and the International Regulations for Preventing Collisions at Sea (COLREGS), as implemented as maritime law in Australia through a series of Marine Orders, including Marine Order 21 – Safety of navigation and emergency procedures and Marine Order 30 – Prevention of collisions.  The <i>Navigation Act 2012</i> , in conjunction with the <i>Protection of the Sea (Prevention of Pollution from Ships) Act 1983</i> and through legislative Marine Orders, also requires vessels to have pollution prevention certificates (see below).	Section 7.6.1 – Physical presence – disruption to other marine users  Section 8.3 - Vessel collision  Implementation of the BMS.
<i>Protection of the Sea (Prevention of Pollution from Ships) Act 1983</i> (POTS Act; Cwlth)	The POTS Act provides for the prevention of pollution from vessels, including pollution by oil, noxious liquid substances, packaged harmful substances, sewage, garbage, and air pollution.	The requirements of the POTS Act are implemented as maritime law in Australia through a series of Marine Orders and legislative instruments, made and administered by the Australian Maritime Safety Authority (AMSA). The requirements of each Marine Order made under the POTS Act and their relevance to the activity are outlined separately below.	Section 7 and Section 8  Implementation of the BMS.

Legislation	Description	Requirements	Demonstration of how requirements are met in EP
	<p>In conjunction with Chapter 4 of the <i>Navigation Act 2012</i>, the POTS Act gives effect to relevant requirements of the International Convention for the Prevention of Pollution from Ships, 1973/1978 (MARPOL) in Australia.</p>		
<p>Marine Order 91 – Marine pollution prevention – oil</p>	<p>Marine Order 91 implements Part II of the POTS Act, Chapter 4 of the <i>Navigation Act 2012</i>, and Annex I of MARPOL (oil pollution).</p> <p>The Marine Order provides standards for the discharge of certain oily mixtures or oily residues and associated equipment and include duties to manage bunkering and transfers of oil between vessels; to maintain Oil Record Books and Shipboard Oil Pollution Emergency Plans (SOPEPs); and to report oil pollution.</p>	<p><b>The MODU and support vessels ≥400 gross tonnes (GT) are required to maintain:</b></p> <ul style="list-style-type: none"> <li>International Oil Pollution Prevention (IOPP) certificates to demonstrate that the vessel or facility and onboard equipment comply with the requirements of Annex I of MARPOL (as applicable to vessel size, type and class).</li> <li>oil Record Books to record activities, such as fuel/oil bunkering and discharges of oil, oily water, mixtures and residues.</li> <li>SOPEPs outlining the procedures to be followed during an oil pollution incident.</li> </ul> <p>Discharges must also comply with Annex I of MARPOL, and oil pollution incidents must also be reported to the Australian Maritime Safety Authority (AMSA).</p>	<p>Section 7.1.3– Routine discharges</p> <p>Section 7.7.1– Accidental release</p> <p>Section 8 - Emergency Conditions</p> <p>INPEX Browse Regional OPEP Implementation of the BMS.</p>

Legislation	Description	Requirements	Demonstration of how requirements are met in EP
Marine Order 93 – Marine pollution prevention – noxious liquid substances	Marine Order 93 - Marine pollution prevention – noxious liquid substances (made under the <i>Navigation Act 2012</i> and the POTS Act and Annex II of MARPOL) specifies the requirements for the prevention of contaminating liquids and chemicals entering the marine environment. It also sets out guidelines for developing a Shipboard Marine Pollution Emergency Plan (SMPEP).	<p>Requirements of Marine Order 93 include:</p> <ul style="list-style-type: none"> <li>• International pollution prevention certificates</li> <li>• reporting requirements</li> <li>• emergency plans, record books and tank cleaning.</li> </ul> <p>INPEX and MODU/vessel contractors will comply with Marine Order 93 as appropriate to vessel class, in relation to the discharge to sea of any noxious liquid substances.</p> <p>Marine vessels &gt;150 GT will carry SMPEPs approved under MARPOL Annex II, Regulation 17 if the vessel is carrying noxious liquid substances in bulk (noting that the vessels SOPEP and SMPEP may be combined into a single document).</p>	Section 7.7.1– Accidental release Implementation of the BMS.
Marine Order 94 – Marine pollution prevention – packaged harmful substances	Marine Order 94, – Marine pollution prevention – packaged harmful substances, and the POTS Act relating to packaged harmful substances as defined by Annex III of MARPOL.	<p>Requirements of Marine Order 94 include:</p> <ul style="list-style-type: none"> <li>• management of harmful substances in packaged form</li> <li>• considerations prior to washing substances overboard</li> <li>• notifying and reporting incidents.</li> </ul> <p>INPEX and MODU/vessel contractors will comply Marine Order 94 as appropriate to vessel class, in relation to the loss or discharge to sea of any harmful materials.</p>	Section 7.2 – Waste management.
Marine Order 95 – Marine pollution prevention – garbage	Marine Order 95 – Marine pollution prevention – garbage implements Part IIIC of the POTS Act, Chapter 4 of the <i>Navigation Act 2012</i> , and Annex V of MARPOL (garbage).	<p><b>MODU and support vessels <math>\geq 100</math> GT, or vessels certified to carry 15 persons or more, are required to maintain a Garbage Management Plan.</b></p> <p><b>MODU and support vessels <math>\geq 400</math> GT are required to maintain a Garbage Record Book.</b></p> <p>The requirements will apply to the MODU and vessels (as appropriate to their size, type and class) at all times.</p>	Section 7.2 – Waste Management Implementation of the BMS.

Legislation	Description	Requirements	Demonstration of how requirements are met in EP
	The Marine Order provides for the discharge of certain types of garbage at sea, waste storage, waste incineration, and the comminution and discharge of food waste. It also sets out requirements for garbage management and recording.		
Marine Order 96 - Marine pollution prevention - sewage	<p>Marine Order 96 - Marine pollution prevention - sewage implements Part IIIB of the POTS Act, Chapter 4 of the <i>Navigation Act 2012</i>, and Annex IV of MARPOL (sewage).</p> <p>The Marine Order includes requirements for the treatment, storage and discharge of sewage and associated sewage systems, and for an International Sewage Pollution Prevention Certificate (ISPPC) to be maintained on board.</p>	<p>MODU and <b>support vessels <math>\geq 400</math> GT are required to</b> maintain an ISPPC to demonstrate that vessels and their onboard sewage systems comply with the requirements of Annex IV of MARPOL.</p> <p>Discharges of sewage must also comply with Annex I of MARPOL, and oil pollution incidents must also be reported to AMSA.</p>	<p>Section 7.1.3 - Routine discharges</p> <p>Implementation of the BMS.</p>
Marine Order 97 - Marine pollution prevention - air pollution	Marine Order 97 - Marine pollution prevention - air pollution implements Part IIID of the POTS Act, Chapter 4 of the <i>Navigation Act 2012</i> , and Annex VI of MARPOL (air pollution).	<p><b>MODU and support vessels <math>\geq 400</math> GT</b> are required to have International Air Pollution Prevention (IAPP) certificates and Engine International Air Pollution Prevention (EIAPP) certificates to demonstrate that the vessel or facility and onboard marine diesel engines comply with the requirements of Annex VI of MARPOL.</p>	<p>Section 7.1.2- Atmospheric emissions.</p> <p>Implementation of the BMS.</p>

Legislation	Description	Requirements	Demonstration of how requirements are met in EP
	<p>The Marine Order sets requirements for marine diesel engines and associated emissions, waste incineration on board vessels, engine fuel quality, and equipment and systems containing ozone-depleting substances (ODS).</p>	<p>Low-sulphur fuel oil / marine diesel with 0.5% mass-for-mass (m/m) sulphur content is required to be used in engines after 31 December 2019.</p> <p>In accordance with Annex VI of MARPOL, the requirements do not apply to the following:</p> <ul style="list-style-type: none"> <li>• emissions resulting from the incineration of substances that are solely and directly the result of the exploitation and offshore processing of seabed mineral resources (i.e. hydrocarbons), including but not limited to flaring during well completion and testing operations and flaring arising from upset conditions</li> <li>• emissions associated solely and directly with the treatment, handling, or storage of seabed minerals (i.e. hydrocarbons)</li> <li>• emissions from marine diesel engines that are solely dedicated to the exploration, exploitation and associated offshore processing of seabed mineral resources (i.e. hydrocarbons).</li> </ul> <p><b>MODU/vessels ≥400 GT</b> are required to have an International Maritime Organization (IMO)-approved waste incinerator, as confirmed by the IAPP certificate.</p> <p><b>MODU/vessels ≥400 GT</b> with rechargeable systems containing ODS to maintain an ODS Record Book.</p> <p><b>MODU/vessels ≥400 GT</b> to have an International Energy Efficiency (IEE) certificate (as applicable to the vessel and engine size, type and class).</p> <p><b>MODU/vessels ≥400 GT</b> to have a Ship Energy Efficiency Management Plan (SEEMP) (as applicable to the vessel and engine size, type and class).</p>	

Legislation	Description	Requirements	Demonstration of how requirements are met in EP
<i>Biosecurity Act 2015</i> (Cwlth)	The <i>Biosecurity Act 2015 (Cwlth)</i> and its supporting legislation are the primary legislative means for managing risk of pests and diseases entering into Australian territory and causing harm to animal, plant and human health, the environment and/or the economy.	Of specific relevance to this EP, the <i>Biosecurity Act 2015 (Cwlth)</i> requires that ballast is managed within Australian seas. The <i>Biosecurity Act 2015</i> now defines Australian seas as: <ul style="list-style-type: none"> <li>for domestic and international vessels whose Flag State Administration is party to the International Convention <b>for the Control and Management of Ships' Ballast Water and Sediments</b> (BWM Convention) (IMO 2009)– the waters (including the internal waters of Australia) that are within the outer limits of the exclusive economic zone (EEZ) of Australia (all waters within 200 nm) or</li> <li>for all other international vessels – the Australian territorial seas (all waters within 12 nm).</li> </ul>	Section 7.4.1- Invasive marine species Implementation of the BMS.
Biosecurity Amendment (Biofouling Management) Regulations 2021	The Biosecurity Amendment (Biofouling Management) Regulations 2021 provide <b>details of Australia's pre-arrival</b> reporting requirements and guidance for operators of international vessels that are subject to biosecurity control while in Australian territorial seas.	The Biosecurity Amendment (Biofouling Management) Regulations 2021 requires the operators of all vessels to provide information on vessel biofouling management practices prior to arriving in Australia. The requirements include: <ul style="list-style-type: none"> <li>Mandatory pre-arrival questions related to biofouling management practices, namely: <ul style="list-style-type: none"> <li>Confirm if the vessel has an effective biofouling management plan?</li> <li>Has the vessel been cleaned of all biofouling within 30 days of arriving in Australia?</li> <li>Does the vessel have an alternative biofouling management method that has been pre-approved by the department?</li> <li>Do you intend to in-water (underwater) clean biofouling in Australia?</li> </ul> </li> </ul>	Section 7.4.1- Invasive marine species Implementation of the BMS.



Legislation	Description	Requirements	Demonstration of how requirements are met in EP
		<ul style="list-style-type: none"> <li>• Vessel operators to demonstrate proactive management of biofouling by implementing one of the three accepted proactive biofouling management options:               <ul style="list-style-type: none"> <li>○ Implementation of an effective biofouling management plan; or</li> <li>○ Cleaned all biofouling within 30 days prior to arriving in Australian territory; or</li> <li>○ Implementation of an alternative biofouling management method pre-approved by the department.</li> </ul> </li> </ul>	
<i>Biodiversity Conservation Act 2016</i> (WA)  <i>Animal Welfare Act 2002</i> (WA)  Biodiversity Conservation Regulations 2018	Ensures the protection of biodiversity and humane treatment of native fauna.  Ensures appropriate treatment and management of wildlife in the event of a potential hydrocarbon spill and response activities.	Consult with WA Department of Biodiversity, Conservation and Attractions (DBCA) and obtain relevant permit(s) before a wildlife hazing and post-contact wildlife response.	Section 8 – Emergency conditions  INPEX Browse Regional OPEP.
<i>Fish Resources Management Act 1994</i> (WA)	The <i>Fish Resources Management Act</i> is administered by the WA Department of Primary Industry and Regional Development (DPIRD) that has powers to deal with incursions of marine pests.	INPEX will manage its operations in accordance with the Act and the associated Fish Resources Management Regulations (1995) with respect to managing potential invasive marine species (IMS) risks.	Section 7.4.1- Invasive marine species  Implementation of the BMS.

Legislation	Description	Requirements	Demonstration of how requirements are met in EP
<i>Aquatic Resources Management Act 2016</i> (ARMA) WA	The ARMA will become the primary legislation used to manage fishing, aquaculture, pearling and aquatic resources in WA.	At the time of submission of this EP, only certain sections of the ARMA have taken effect, with most Sections not yet commenced. While this is the case, the <i>Fish Resources Management Act 1994</i> (WA) remains in effect until the transitional provisions for the ARMA are in operation. Once in operation the ARMA will provide new management methods in a flexible framework. This EP will be updated to reflect this once the ARMA comes into effect, expected within the duration of this EP.	Section 7.4.1- Invasive marine species Implementation of the BMS.
<i>National Greenhouse and Energy Reporting Act 2007</i> (NGER Act; Cwth)	The Act provides a single, national framework for the reporting and distribution of information related to greenhouse gas (GHG) emissions, GHG projects, energy production and energy consumption.	The Clean Energy Regulator administers the NGER Act, its legislative instruments, and related policies and processes.  Reporting requirements under the NGER Act are made via the Emissions and Energy Reporting System (EERS) on an annual basis.  EERS allows all NGER reporters to submit emissions and energy reports under sections 19, 22G and 22X of the NGER Act.  MODU and vessel contractors are responsible for NGER reporting* for the petroleum activity described within this EP as they have operational control under the NGER Act.  *subject to exceeding the reporting threshold of 25 kt or more of GHG (scope 1 and 2 emissions).	Section 7.1.2- Atmospheric emissions.

Legislation	Description	Requirements	Demonstration of how requirements are met in EP
<p><i>Underwater Cultural Heritage Act 2018</i> (Cwlth)</p>	<p>The Act provides protection for shipwrecks, sunken aircraft and other types of underwater heritage including human remains that have been in Australian waters for at least 75 years. This protection applies whether or not the shipwrecks have been previously located. Disturbance of a protected shipwreck, or any other adverse impact including an indirect impact, without a permit is an offence under the Act.</p>	<p>Discovery of underwater cultural heritage must be notified within 21 days of the discovery.</p> <p>Proponents of seabed developments are expected to perform both desktop and direct assessments of the potential underwater cultural heritage resource of their project area prior to work commencing.</p> <p>The <i>Underwater Cultural Heritage Act 2018</i> prohibits certain activities within protected zones (prohibited conduct) including but not limited to:</p> <ul style="list-style-type: none"> <li>• entry of persons or vessels</li> <li>• allowing a vessel to become stationary</li> <li>• underwater activities</li> <li>• anchoring or mooring vessels</li> <li>• release or deposit of objects or materials.</li> </ul> <p>Any access to protected zones would only occur during oil spill response activities and this is exempt as per Section 29(3)C 'dealing with an emergency involving a serious threat to the environment'.</p>	<p>Section 4.11.4 – Underwater Cultural Heritage</p> <p>Section 7.4.15 – Seabed disturbance</p> <p>Section 8 – Emergency conditions</p>

Table 2-2: Summary of applicable conventions, agreements, industry standards and guidelines

Guideline	Description
Australian and New Zealand guidelines for fresh and marine water quality (ANZG 2018)	These guidelines provide a framework for water resource management and state specific water quality guidelines for environmental values, and the context within which they should be applied.
International Convention for the Prevention of Pollution from Ships, 1973/1978 (MARPOL)	This convention is designed to reduce pollution of the seas, including dumping, oil and exhaust pollution. MARPOL currently includes six technical annexes. Special areas with strict controls on operational discharges are included in most annexes.
International Convention on the Control of Harmful Anti-fouling Systems	This convention prohibits the use of harmful organotins in anti-fouling paints used on ships and establishes a mechanism to prevent the potential future use of other harmful substances in anti-fouling systems.
International Convention for the Safety of Life at Sea (SOLAS) 1974	In the event of an offshore emergency event that endangers the life of personnel, the International Convention for the Safety of Life at Sea (SOLAS) 1974 may take precedence over environmental management.
Bonn Agreement for Cooperation in Dealing with Pollution of the North Sea by Oil and other harmful substances (Bonn Agreement)	<p>The Bonn Agreement is the mechanism by which the North Sea states, and the European Union (the Contracting Parties), work together to help each other in combating pollution in the North Sea area from maritime disasters and chronic pollution from ships and offshore installations; and to carry out surveillance as an aid to detecting and combating pollution at sea.</p> <p>The Bonn Agreement Oil Appearance Code may be used during spill response activities.</p>
The Australian Petroleum Production and Exploration Association (APPEA) <i>Code of Environmental Practice</i> (APPEA 2008)	<p>Recognising the need to avoid or minimise and manage impacts to the environment, this code of environmental practice includes four basic recommendations to APPEA members undertaking activities:</p> <ul style="list-style-type: none"> <li>• Assess the risks to, and impacts on, the environment as an integral part of the planning process.</li> <li>• Reduce the impact of operations on the environment, public health and safety to ALARP and to an acceptable level by using the best available technology and management practices.</li> <li>• Consult with stakeholders regarding industry activities.</li> <li>• Develop and maintain a corporate culture of environmental awareness and commitment that supports the necessary management practices and technology, and their continuous improvement.</li> </ul>

Guideline	Description
Australian Ballast Water Requirements, Version 8 (DAWE 2020)	Australian Ballast Water Management (BWM) Requirements outline the mandatory ballast water management requirements to reduce the risk of introducing harmful <b>aquatic organisms into Australia's marine environment</b> through ballast water from international vessels. These requirements are enforceable under the <i>Biosecurity Act 2015</i> .
Australian Biofouling Management Requirements (Version 1) (DAWE 2022y)	The Australian biofouling management requirements set out vessel operator obligations for the management of biofouling when operating vessels under biosecurity control within Australian territorial seas.
International Convention for the <b>Control and Management of Ships' Ballast Water and Sediments</b> (BWM Convention) (IMO 2009)	All vessels are required to manage their ballast water and sediments in accordance with the BWM Convention and <i>Biosecurity Act 2015</i> . The convention came into force on <b>8 September 2017 and Australia's ballast water policy and legislation align with the convention.</b>
Guidelines for the control and <b>management of ships' biofouling</b> to minimize the transfer of invasive aquatic species (IMO 2012)	The guidelines provide a globally consistent approach to the management of biofouling. They aim to reduce the risk of translocation of marine pests from biofouling present on immersed areas of vessels. It was adopted by IMO marine environment committee in the form of Resolution MEPC.207 (62) in 2011.
Department of Climate Change, Energy, the Environment and Water. 2023, National Light Pollution Guidelines for Wildlife, (DCCEEW 2023k)	The guidelines provide best-practice industry standard for managing potential impacts of light pollution on marine fauna.
Minamata Convention on Mercury	<p>The Convention covers all aspects of the life cycle of mercury, controlling and reducing mercury across a range of products, processes and industries. This includes controls on mercury mining, manufacture and trade of mercury and products containing mercury, disposal of mercury waste and emissions of mercury from industrial facilities.</p> <p>Australia ratified the Minamata Convention on 7 December 2021. Countries that have ratified the Convention are bound by international law to put controls in place to manage emissions, releases and disposal of mercury and mercury compounds.</p>
United Nations Framework Convention on Climate Change (1992)	The objective of the convention is to stabilise GHG concentrations in the atmosphere at a level that would prevent dangerous interference with the climate system. Australia ratified the convention in December 1992 and it came into force on 21 December 1993.
Paris Agreement on Climate Change (2015)	<b>The Paris Agreement's central</b> aim is to strengthen the global response to the threat of climate change by keeping a global temperature rise this century well below 2 °C above pre-industrial levels and to pursue efforts to limit the temperature increase even further to 1.5 °C.

Guideline	Description
	The Paris Agreement provides the international framework <b>and context around Australia's nationally determined</b> contributions (NDC).
National disaster risk reduction framework	In 2019, the Australian Government agreed to a National Disaster Risk Reduction Framework outlining foundational actions to be taken across all sectors to address existing disaster risk and minimise the creation of new risk. The framework recognises global climate change as an underlying driver of disaster risk.

### 3 ACTIVITY DESCRIPTION

#### 3.1 Location and timing

Exploration permits, WA-285-P and WA-343-P are both located within the Browse Basin in Commonwealth waters within WA (Figure 1-1). They are situated approximately 230 km north-west of the Kimberley coastline and the closest major town is Derby, located approximately 360 km and 425 km south of the southern boundary of the permit areas respectively. The two exploration permits are approximately 45 km apart at the closest point (Figure 1-1).

The exact location of the proposed pre-drill site survey and exploration well within each permit area is yet to be finalised; however, they will fall within the boundaries of permit areas. It is known that the well in WA-285-P will be located in the south-west of the permit area, approximately 40 km from Browse Island at its closest point, as indicated by the shaded area in Figure 1-1.

As a pre-cursor to the drilling activities, a pre-drill site survey, lasting approximately 10 days, will be undertaken at the proposed well location within each permit. The objective of each survey is to evaluate the environment at the planned drilling locations and confirm mooring suitability for a semi-submersible MODU. The site survey is provisionally planned to be undertaken in the second half of 2023; however, start dates are subject to vessel availability.

It is expected that the earliest commencement date for drilling and evaluation activities will also be in the second half of 2023. All activities will be completed within 12 months, noting that the exact timing for completion will be dependent upon INPEX obtaining all approvals, and MODU availability. However, for contingency purposes, this EP allows for the activities to occur anytime between calendar years 2023 and 2025. It is possible that within these timeframes concurrent drilling operations may occur.

Water depths at the permit areas range from approximately 290 m (LAT) in WA-285-P to approximately 350 m (LAT) in WA-343-P.

#### 3.2 Pre-drill site surveys

The scope of the pre-drill site surveys is to obtain a range of geophysical data for both the proposed well locations and contingency blowout relief well locations to enable the identification of any geohazards and allow completion of the required anchoring capacity assessments. The surveys may be performed across an area of up to approximately 50 km<sup>2</sup> centred on multiple well locations i.e. the proposed exploration well location and up to four possible relief well locations (surveyed as a precaution) within each permit area.

The survey vessel contractor is yet to be confirmed; however, they will be selected in accordance with the INPEX contractor management requirements described in Section 9.9.

The surveys will be undertaken using a multi-purpose, DP survey vessel that will use marine diesel fuel. Vessel speeds during survey data acquisition are expected to be low (typically < 5 knots). Due to the short duration of the survey (approximately 10 days per permit), vessel refuelling, crew changes or anchoring are not anticipated to be required. The survey vessel is expected to be mobilised from either Broome, Darwin or Dampier.

### 3.2.1 Survey methodology

#### Multibeam echo sounder (MBES)

Echo sounder surveys will enable the collection of bathymetry data and the correlation of depth information. This type of survey uses a sonar system to transmit short pulses of sound energy, analysing the return signal from the seafloor or other objects.

A multibeam echo sounder transmits at frequencies between 200 kHz and 400 kHz with pulse lengths from 10 to 500  $\mu$ s. Indicative sound output at source is equipment dependent and may range from 163 to 190 dB re 1  $\mu$ Pa@1m.

#### Side-scan sonar

Use of side-scan sonar methods will enable INPEX to identify seabed obstructions or features. This type of survey is a hydro-acoustic technique, comprising a set of transducers mounted on either side of a towed vehicle. The transducers produce high frequency pulses (either 120 kHz or 410 kHz) which reflect seabed features. Indicative sound output at source may range from 137 to 200 dB re 1  $\mu$ Pa@1m.

#### Sub-bottom profiler

Acoustic sub-bottom profiling systems are based on 'ping and chirp' type equipment, used to determine the physical properties of the sea floor and to image and characterize the geological formations below the sea floor.

This equipment is low frequency (1-16 kHz) with an indicative sound output at source ranging from 142 to 200 dB re 1  $\mu$ Pa@1m.

#### Seabed grab sampling

Samples of seabed sediments will be collected to validate and ground truth the geophysical survey data. Grab samples (approximately 16 depending on the variability of the seabed within the permit areas) will be collected using a Shipek (or similar) grab sampler deployed using either a crane or winch on board the survey vessel. The grab sampler will be lowered to the seabed where it will trigger shut upon making contact with the seabed. Upon triggering it retains approximately 0.13 m<sup>3</sup> of sediment. The sample is then brought back to the vessel where it is logged and stored for further analysis.

### 3.3 Drilling activities

#### 3.3.1 Indicative drilling method

The WA-285-P well, targeting the upper Brewster Member and Plover Formation, is expected to reach a total depth (TD) of approximately 5,000 m MDRT (measured depth below the rotary table). In the WA-343-P exploration well, the main target is the Plover Formation. The well is designed as a High Pressure – High Temperature exploration well and a TD of 5,310 m MDRT is expected.

After reaching TD at each well, it is planned to conduct a wireline evaluation program followed by well testing (drill stem test). Once all evaluation activities are complete, both wells will be permanently abandoned.

Well design details are presented in Table 3-1.



Table 3-1: Well details

Well section description	Drilling fluid type	Volume of fluid disposed with cuttings (m <sup>3</sup> )	Volume of cuttings discharged (m <sup>3</sup> )
<p>Conductor Hole Section</p> <p>Indicatively, 36-44" well-bore diameter.</p> <p>30-36" conductor complete with a low-pressure wellhead housing</p>	<p>WBM, sea water and high viscosity gel sweeps.</p> <p>At TD the hole will be displaced with high viscosity gel mud.</p> <p>While drilling riserless, all returns will be to the seabed.</p> <p>Fluid remaining at the end of this hole section will be used on the next hole section.</p>	~240	~105
<p>Surface Hole Section</p> <p>Indicatively, 20" well-bore diameter.</p> <p>16" surface casing complete with high pressure wellhead housing</p>	<p>WBM, gel polymer.</p> <p>This hole section may be drilled riserless with a semi-closed circulating system, (i.e. returns from the well will be circulated back to the MODU via a riserless fluid return system and then pumped back down the well).</p> <p>In the event that a riserless fluid return system is not used, returns will be to the seabed.</p> <p>At the end of this section all remaining WBM will discharged overboard.</p>	~2700	~530
<p>Intermediate Hole Section (1)</p> <p>Indicatively, 14 ½" x 16" well-bore diameter.</p> <p>13 ¾" drilling liner</p>	<p>Low toxicity SBM.</p> <p>Technical justification for SBM use: This hole section will penetrate massive claystone sections including the Jamieson formation. The Jamieson formation is known to contain highly reactive claystones. The use of WBM in these formations is known to result in borehole breakout and well-bore collapse which will possibly result in the loss of the hole section and compromising the well objectives. SBM has much lower levels of reactivity with shales and as such is much less likely to cause destabilisation during drilling, tripping and running casing.</p> <p>SBM containment management systems, shale shakers and cuttings dryers will be used to minimise the amount of SBM discharged to the environment as residual oil-on-cuttings.</p>	~130	~230

Well section description	Drilling fluid type	Volume of fluid disposed with cuttings (m <sup>3</sup> )	Volume of cuttings discharged (m <sup>3</sup> )
	<p>At the end of the section, the mud will be retained and used on the next hole section and/or future wells.</p> <p>At the end of drilling, all the recaptured SBM will be returned to the vendor for reuse.</p>		
<p>Intermediate Hole Section (2)</p> <p>Indicatively, 12 1/4-13 1/2" well-bore diameter.</p> <p>9 5/8 – 9 7/8" production casing</p>	<p>Low toxicity SBM.</p> <p>This hole section will penetrate massive claystone sections including the Echuca Shoals and Lower Echuca Shoals formations. These formations are known to contain highly reactive claystones. Refer to the technical justification for SBM use presented in the previous section (Intermediate Hole Section (1)).</p>	~80	~100
<p>Production Hole Section</p> <p>Indicatively, 8 1/2" well-bore diameter.</p> <p>7" production liner</p>	<p>Low toxicity SBM.</p> <p>Brewster and Plover reservoirs will be drilled in one section. Anticipated bottom hole temperatures in this section are expected to be high, approximately 155 -175°C.</p> <p>Previous laboratory testing has confirmed both the Brewster and Plover reservoirs are sensitive to water and that SBM provides the least damaging option when drilling these sections. Therefore, the use of SBM will be used to prevent formation damage and assist optimal productivity evaluation.</p>	~50	~40

The conductor hole section of each well (indicatively 36 - 44") will be drilled using sea water and high **viscosity "sweeps"** (comprising prehydrated bentonite, i.e. WBMs) to circulate drilled cuttings from the hole for discharge at the seabed. Prehydrated bentonite consists of up to 98% water, the remainder being drilling fluid additives that are either completely inert in the marine environment, or naturally occurring benign materials. Bentonite is a naturally occurring clay of low toxicity (World Health Organization 2005).

After the setting of the conductor (indicatively 30 - 36"), the surface hole section of each well (indicatively 20") will be drilled using WBM and may utilising a riserless mud return (RMR) system. The RMR is installed on the wellhead and includes a pump and hose on the seabed. It enables drilling fluids and drilled cuttings to be either discharged from the well at the seabed (conventional riser-less drilling) or circulated back to the MODU, via the RMR (cuttings will be discharged overboard). In the event that a RMR system is not used, returns will be to the seabed.

The surface casing (indicatively 16") will then be cemented in place and the blowout preventer (BOP) and marine riser installed. This closed-system facilitates the transfer of drilling fluids and drilled cuttings back to the MODU for all subsequent drilling operations.

For the well in WA-343-P, and possibly for the well in WA-285-P, a weak fracture gradient is expected at the surface casing shoe. To maintain a sufficient drilling mud weight window, the short intermediate hole section (indicatively 14 ½" x 16") will be drilled using SBM and the drilling liner / intermediate casing (indicatively 13<sup>3</sup>/<sub>8</sub>") will be cemented in place.

Thereafter, the intermediate hole section (indicatively 12 ¼ -13 ½") will then be drilled using SBM and the production casing (indicatively 9<sup>5</sup>/<sub>8</sub> - 9<sup>7</sup>/<sub>8</sub>") will be cemented in place. Up until this point, the well design is the same regardless of whether the target is the Brewster or Plover reservoir.

The next section is the production hole section (indicatively 8 ½") through Brewster and Plover formations and drilled using SBM. If the existence of movable hydrocarbon is confirmed by logging while drilling (LWD) and wireline measurements, the production liner (indicatively 7") will be set for conducting drill stem tests (DSTs) to check productivities from the target reservoirs.

#### Drill stem test

Following drilling activities, a DST will be performed to assess various reservoir parameters. One DST will be undertaken per primary target in each well (up to two DSTs per well). The DST will be performed using well test equipment on the MODU which will be supplied by a third-party service contractor. Each well will be flowed at gas rates of up to 90 MMscf/day and up to 960 m<sup>3</sup>/day of condensate. During DST operations, reservoir fluids (hydrocarbons) will be flared via the well test package. PW (approximately 160 m<sup>3</sup>/day) will either be recombined and sent to the flare for disposal through a high efficiency burner head via a separator or processed via a water filtration package and discharged overboard.

A multi-rate DST will be conducted at various flow rates to establish baseline well deliverability; to obtain reservoir fluid samples and estimate key formation parameters. All **operations will be conducted in accordance with the MODU's safety case accepted by NOPSEMA.**

The estimated time for DST operations is approximately 72 - 96 hours per test, although this will be subject to the precise reservoir characteristics and other factors. Flaring associated with the DST is expected to last approximately 36 hours per test.

#### Drilling fluids and chemical selection

The wells will be drilled using both water-based mud (WBM) and synthetic-based mud (SBM) systems. A description of the chemical selection procedure for drilling fluids is presented in Section 9.6.1. The proposed formulations and chemicals to be used are listed in Table 3-2 (WBM) and Table 3-3 (SBM).

The listed products are only proposed and may change during the activity as new products are required. Indicative offshore chemical notification system (OCNS) or chemical hazard assessment and risk management (CHARM) hazard quotient (HQ) rankings have been included where possible. Any new products will be selected in accordance with the selection and approval process, and the list will be reviewed periodically and updated.

Table 3-2: Water-based formulation – provisional additives

Generic product name	Function	OCNS or CHARM HQ
Sea water	Continuous phase	n/a
Biocide	Bacteria control	Gold
Bentonite	Viscosifier	E
Caustic soda	Alkalinity control	E
Glycol medium Cloud Point	Clay inhibition	Gold
PAC Low Vis	Fluid loss control	E
PAC Hi Vis	Fluid loss control	E
Potassium chloride	Clay inhibition	E
Soda ash	Alkalinity control	E
Soltex (Sodium)	Clay inhibition	Gold
Sized cellulose	Lost circulation	E
Desco CF	Dispersion	Gold
Xanthan gum	Viscosifier	E

Table 3-3: Synthetic-based formulation - provisional additives

Generic product name	Function	OCNS or CHARM HQ
Primary emulsifier	Primary emulsifier	D
Secondary emulsifier	Secondary emulsifier	D
Option A: linear alpha olefins synthetic base oil <sup>1</sup>	Continuous emulsion phase	E

Generic product name	Function	OCNS or CHARM HQ
Option B: Saraline 185V synthetic base oil <sup>1</sup>	Continuous emulsion phase	E
Organophillic clay HT	Viscosifier	E
Organophillic clay	Viscosifier	E
Lime	Alkalinity control	E
Calcium chloride	Internal water phase salinity	E
Fluid loss additive powder	Fluid loss control	E
Fluid loss additive liquid	Fluid loss control	D
Calcium carbonate	Reservoir bridging	E
Barite	Density control	E

<sup>1</sup> Note: Both Option A and Option B base oils are generally available in the region and suitable for use.

## Drill cuttings

WBM drill cuttings will either be discharged directly to the seabed (while drilling the riserless conductor hole section) or brought up to the MODU (while drilling the subsequent surface hole section). Cuttings brought up to the MODU will be directed over solids control equipment (SCE), which comprises vibrating screens (shale shakers), and to centrifuges, and then discharged overboard. Where SBM is used, SCE will also include cuttings dryers. Except for residual fluid on drill cuttings, no SBM will be discharged to the marine environment. Details of the SCE equipment are provided below.

### *Shale shakers*

Shale shakers primarily remove large amounts of cuttings from drilling mud by directing it from the well to flow over vibrating wire-cloth screens. The screens remove the cuttings after which the mud is directed back to the MODU mud storage pits.

### *Centrifuges*

Following the processing by shale shakers, the mud may be directed to centrifuges which are used to separate barite and remove fine solids (those below 4.5 to 6 microns). Centrifuges use a rotating bowl to create high centrifugal forces to affect the separation of coarse and fine particles from the mud. Solids from the centrifuge are discharged to sea and the mud recirculated into the fluid system.

### *Cuttings dryer and dryer centrifuge*

While using SBM, a circulating system will be active that processes the SBM over shale shakers and through centrifuges. These allow the SBM fluid component to be separated from the cuttings and captured for continuous recirculation into the fluid system during drilling.

Table 3-1 provides a summary of estimated fluid and cuttings volumes to be discharged. **The cuttings dryer will aid in ensuring the volume of SBM retained on cuttings is  $\leq 7\%$  weight per weight (wt/wt).** The dried cuttings will be discharged overboard. The reclaimed SBM will be retained on board for disposal onshore or recycled into the mud system. At the end of drilling, all recaptured SBM will be returned to the vendor for reuse.

### Cementing

Cementing operations are undertaken to ensure well integrity, through the following mechanisms:

- cementing the casing and conductors in place
- sealing the annulus between the casing string and the formation
- sealing lost circulation zones
- setting plugs in an existing well from which to sidetrack
- setting plugs for zonal isolation
- plugging and abandoning the well at the end of the activity.

Cement is transported as dry bulk to the MODU by the support vessels and is mixed with water and additives in the cementing unit immediately before use to form a cement slurry, which is then injected down the well by high pressure pumps.

It is standard practice to allow some excess cement slurry to overflow to the sea floor when cementing the top-hole section as this provides visual evidence that the annular space between the hole and the casing has been filled. This typically covers an area of seabed of up to 10 m from the well. Small volumes of cement slurry may also be discharged to the sea surface when testing the cementing unit or disposing of excess slurry before it sets at the end of a cementing job. Excess cement will be retained for use on the next well, at the end of the drilling campaign, should any bulk cement remain, INPEX will aim to transfer the excess volume to the vessel for onshore disposal/reuse. The bulk transfer (MODU to vessel) will be dependent on the transfer capability of the contracted MODU. Should this option not be available, the remaining cement will be mixed and operationally discharged to the marine environment.

In accordance with the Section 9.6.1, cement products used will have an OCNS rating of D or E or a HQ rating of silver or gold. If not OCNS registered, all chemicals will be assessed as **'green' via the INPEX pseudo ranking system in line with the OCNS CHARM/non-CHARM criteria.**

### Blowout preventer

A blowout preventor (BOP) plays a critical role in assuring safe operations in the event of a loss of primary well control. As part of ongoing drilling operations, the BOP stack is required to be regularly function tested when subsea (typically weekly/fortnightly), as defined by the INPEX Well Operations Standard (0000-AD-STD-60004) and Well Operations Manual (0000-AD-MAN-60002). During testing, volumes of water-based BOP control fluid will be released to the marine environment.

## Well abandonment

At the end of the drilling and evaluation activities within each permit, both wells will be permanently plugged and abandoned in accordance with the approved Well Operations Management Plan (WOMP). A two-barrier philosophy for permanent abandonment will be maintained in compliance with INPEX barrier standards (INPEX Well Integrity Standard (0000-AD-STD-60003) and INPEX Well Operations Manual (0000-AD-MAN-60002)).

Well abandonment activities will also be undertaken in accordance with the requirements of the OPGGS Act, the OPGGS (Resource Management and Administration) Regulations 2011. Additionally, in accordance with Section 572 of the OPGGS Act (removal of property) **and NOPSEMA's Section 572 Maintenance and removal of property policy (NOPSEMA 2022c)** INPEX will remove all structures, equipment and other property associated with the activity.

On completion of the drilling and evaluation activities the conductor and casing will be cut below the sea floor (mudline) and all equipment will be removed. It is anticipated that the duration of the well abandonment will be approximately 7 days per well.

### 3.3.2 Gas venting

During drilling operations, minor quantities of drill gas will be separated and safely discharged from mud processing equipment. During DST operations, venting of fugitive emissions may also occur from vessel surge tanks. Gas will not be vented near any ignition sources.

### 3.3.3 Wireline formation evaluation

The wireline formation evaluation program consists of a firm "dry hole" program and a contingent "success case" program within the planned 8 ½" hole section. The "success case" program will be run if gas bearing reservoir quality sandstones are confirmed by either mud-logging and/or LWD analysis. A summary of the wireline logging tool types planned to be utilised is included below.

#### Dipole sonic tool

A dipole sonic tool measures the travel time of an elastic wave, derived from a low energy pulse of sound, through the formation. Quantitatively, the sonic log can be used to evaluate porosity and provide direct geomechanical analysis input. As an aid to seismic interpretation it can be used to give interval velocities and velocity profiles and can be calibrated with the seismic section.

#### Gamma ray/spectral gamma ray tool

A gamma ray tool measures the natural gamma radiation emanating from a rock. This gamma radiation originates from the naturally occurring radioactive elements potassium, uranium and thorium. The spectral gamma ray tool measures both the total natural gamma radiation and each individual contribution from potassium, uranium and thorium. The gamma ray log is used quantitatively to derive a shale/clay volume and potentially clay type/s. Qualitatively, the gamma ray log can potentially be used to correlate formations, facies and depositional sequences.

### Mechanical rotary sidewall core

A mechanical rotary sidewall core tool allows for the extraction of small rock samples from the drilled formation. An electrically driven rotary coring tool extends from the tool and penetrates the borehole wall and formation. The core, once cut, is snapped off and pulled into the body of the wireline tool for recovery to surface. A small electrically driven rotary coring tool extends from the wireline tool and penetrates the surrounding formation. The core, once cut, is snapped off and pulled into the body of the wireline tool for recovery to surface later. Core samples are used to evaluate mineralogy, porosity, permeability, fluid type/volume, rock strength and biostratigraphy.

### Resistivity/conductivity/density/neutron tools

A resistivity tool measures the resistance to current passing through the formation which is used to infer the presence of hydrocarbons as opposed to water. Conductivity tools measure a rocks conductivity or its ability to conduct an electric current. Conductivity is the reciprocal of resistivity and is usually plotted as a resistivity log.

A density tool produces a continuous record of a formations bulk density and the density log can be used to calculate porosity and indirectly, hydrocarbon and mineral density.

A neutron tool provides a continuous record of a rocks reaction to fast/high energy neutron interaction. Neutron log data is used for porosity evaluation and fluid type identification (gas, oil and water).

### Formation pressures test tool

A wireline formation pressure test tool measurement is acquired by inserting a small probe into the borehole wall/intersected formation and performing a mini pressure drawdown and build-up by withdrawing a small amount of formation fluid and then waiting for the pressure to build up to the formation pore pressure. This analysis provides a measure of in-situ fluid densities and fluid mobility/permeability.

### Formation fluid sample tool

A wireline formation fluid sampling tool can take multiple samples of formation fluids. To acquire samples, a tool probe is mechanically pressed into the formation and then a fluid sample chamber is opened within the tool into which formation fluid flows. The retrieved formation fluid samples are sent to a laboratory for detailed pressure/volume/ temperature analysis.

### Borehole geological imaging tool/element measurement tool/dielectric tool/nuclear magnetic resonance tool

A borehole geological imaging tool consists of several retractable pads that are pushed onto the borehole wall. Each pad records formation voltage allowing for both sedimentary and structural features of the rock to be evaluated in detail by obtaining a precise borehole image to determine its shape and form.

An element measurement tool (spectroscopy) is used to measure rock elemental concentrations. The measured elements can be used for accurate quantitative mineralogy analysis and input into detailed petrophysical and geological property evaluation.

A dielectric tool provides a measurement of dielectric dispersion in the formation/rock. The principle of the dielectric dispersion measurement is the propagation of high frequency electromagnetic waves into the formation/rock and measuring the response to determine key petrophysical properties.



A nuclear magnetic resonance wireline logging tool measures the induced magnetic moment of hydrogen nuclei (protons) contained within fluid-filled pore space of rocks and the bound water of certain minerals.

### 3.3.4 Vertical seismic profile (VSP)

VSP uses a sound source suspended in the water column and recorders located down-hole to provide a high-resolution seismic image of the immediate vicinity of the well. VSP measurements are used primarily for correlation of existing seismic data.

The sound source used for VSP is similar to, but much smaller than, those used during seismic surveys. Typically, an acoustic source with a total array volume of 0.012 m<sup>3</sup> (~750 cubic inches) is employed. The sound pressure level will be **232 dB re 1 µPa@1m with a frequency range of 5–125 Hz.**

The airgun source array is discharged 5–10 m below the sea surface approximately five times at roughly 20 second intervals, with recordings taken down-hole at a specific depth. Additional recordings are made at 5–7-minute intervals as the down-hole tool is repositioned within the well. VSP is planned for both wells with the total duration of VSP activities (excluding soft-starts) estimated to take approximately 18 hours per well (but will be dependent on the results of the well which is being profiled and the schedule of activities).

### 3.3.5 Contingent drilling activities

A number of contingencies, detailed in Table 3-4, may be required in the event of operational or technical issues during the exploration drilling activity.

Table 3-4: Drilling contingencies

Contingency	Contingency establishment	Description	Environmental considerations
Well re-spud	In the event that operational or technical issues are encountered while drilling.	<p>The process of beginning to drill a well.</p> <p>The location of the re-spud would typically be within the immediate area of the original well at a safe location.</p>	<p>The net environmental effect will be limited to an increase in the volume of cuttings generated. In a worst-case scenario, this could be a doubling of the estimated drill cuttings from the first two sections of the well-bore (Table 3-1).</p> <p>There may also be some additional temporary, localised damage to benthic habitat.</p> <p>Should a well re-spud be required, the original well will be permanently plugged and abandoned as described in Section 3.3.1 <i>Well abandonment</i></p>

Contingency	Contingency establishment	Description	Environmental considerations
Sidetrack	In some instances, the option of a sidetrack instead of a re-spud might be pursued when operational issues are encountered.	The process of drilling a secondary well-bore away from an original well-bore.	The net environmental effect will be limited to an increase in the volume of cuttings generated. The worst case would be equivalent to cuttings generated from a single section of the well.
Lost circulation	Circulation is said to be lost when the drilling fluid flows into one or more geological formations instead of returning up the annulus.	<p>A number of contingencies are available when lost circulation occurs, depending on the severity:</p> <ul style="list-style-type: none"> <li>• minor losses may be controlled with the use of fluid loss control materials such as bentonite and/or polymers, or other additives</li> <li>• severe losses will require the use of fluid loss control materials such as bentonite and/or polymers and the addition of bridging agents such as ground calcium carbonate and fibrous material</li> <li>• pull back, cement the zone where the losses occurred, and drill through the cement and recommence drilling the well.</li> </ul>	The net environmental effect would be a change in the water quality at the point of discharge. Depending on the volume of discharge, this could potentially form a temporary plume before it is dispersed back to ambient levels.
Removal of formation fluid influx (well control)	It is possible that a well kick may occur resulting in an undesirable influx of formation fluid into the well-bore.	The influx will be removed from the wellbore in a controlled manner as per the approved well control procedures.	The resultant effect would be a release of gas via the mud-gas separator to the atmosphere during well control operations. Gas will not be vented near any ignition sources.

### 3.3.6 Concurrent drilling operations

Although unlikely, it is possible that concurrent drilling operations may occur during this activity. This would involve a MODU operating in WA-285-P and WA-343-P simultaneously. In addition, during the life of this EP drilling activities are expected to continue in the WA-50-L production licence area associated with **INPEX's Ichthys development drilling** campaign.

### 3.4 Semi-submersible MODU, supporting vessels and aircraft

The MODU contracted to undertake the drilling activities will be a semi-submersible MODU with an expected complement of 100 to 180 personnel onboard. The MODU will maintain position using either DP or an anchored mooring system. While on location, a PSZ with a 500 m radius will be maintained around the MODU at all times; to control activities, and to reduce the risk of marine collisions, as required under the OPGGS Act. Maritime Safety Information (MSI) notifications will be issued via AMSA, while the Australian Hydrographic Office (AHO) will issue a Notice to Mariners. The MODU will be powered by marine diesel with a typical usage of 30,000 L per day for a moored MODU. Fuel usage will increase if the MODU is dynamically positioned (approximately 50,000 L per day).

The MODU will be supported by two to three vessels (i.e. AHSVs and Platform Supply PSVs), as well as regular helicopter flights from the mainland.

The AHSVs and the PSVs will be used to transport equipment, materials and fuel between the MODU and the port of Broome, the marine supply base for the activity. The AHSVs will be used to deploy and accurately position anchors for the MODU if required. The vessels will also conduct safety lookouts for helicopter landings and take-offs; monitor the 500 m PSZ maintained around the MODU; and provide support in the event of emergencies. Vessels will remain outside of the PSZ unless undertaking duties and will maintain position using DP (no anchoring). Support vessels will be powered by marine diesel with a typical usage of 5,000 L per day when on standby (Gustavson Associates 2011) and 15,000 L per day when steaming. Each supply vessel will be crewed by up to 25 personnel. Should concurrent drilling operations occur, vessel support may be shared between MODUs.

Aviation support will be based at Broome International Airport. Helicopters based in Broome will be used to transfer personnel to and from the MODU several times per week. The transfer frequency may vary depending on MODU manning, the operational phase of the well, and the specification (capacity) of the helicopters contracted. Although not expected, vessels and helicopters may be refuelled in nearby WA-50-L if required during the drilling activities.

#### 3.4.1 Anchoring and dynamic positioning

A DP MODU will maintain position at the well locations using thrusters. Whereas a moored MODU will typically have a minimum of eight anchors, deployed by AHSVs and lowered to the seabed. Anchors may be pre-laid in advance of the MODU arriving at each well location. Once in place, the MODU winches in the slack from the mooring lines to the required tension. Anchors are spread in a radial pattern extending from the MODU. The size of the anchor spread will be dependent on the MODU and the MODU specific mooring analysis conducted during the well planning stage. Typically, mooring lines extend approximately 2,500 m from the MODU with approximately 1,000 m of grounded chain. Each anchor typically occupies a total seabed area of approximately 30 m<sup>2</sup>. Retrieval of anchors is the reverse of the deployment procedures.

#### 3.4.2 Remotely operated vehicle

The MODU, and possibly other specialised vessels will be equipped with a ROV for:

- pre-spud hazard surveys
- monitoring of BOPs/marine riser
- monitoring of openwater landing and cementing operations
- monitoring for shallow gas, and unplanned discharges

- functioning and troubleshooting of subsea equipment e.g. BOPs, RMR system or survey/positioning system, as required.

Camera systems (still and video) are also fitted to the ROV to capture permanent records of the environment and operations.

### 3.5 GHG emissions

Expected direct GHG emissions generated during the petroleum activity are presented in Table 3-5. Emissions are calculated using the NGER Emissions and Energy Threshold Calculator 2021-2022, with consumption and flaring data recorded during comparable INPEX Australia drilling activities.

Noting that these direct emissions relate to MODU/vessel contractors who have operational control and are therefore required to report under the NGER Act (refer to Table 2-1). There are no INPEX scope 1 or 2 emissions associated with the exploration activities covered by this EP. The direct emissions are considered scope 3 emissions for INPEX Australia.

Table 3-5: Expected direct GHG emissions associated with the exploration drilling activities in WA-285-P and WA-343-P

Activity	GHG emissions (t-CO <sub>2</sub> -e)	
Pre-drill site survey vessel	544 (272 per survey)	
Drilling support vessels	16,064	
Helicopters	6,027	
MODU	Moored: 9,955	DP: 19,910
Flaring (DST operations)	Gas: 33,803 Liquids: 9,205 Fugitive emissions: 152	
Total	75,750	85,705

Assumptions: Figures based on 3 drilling support vessels; 3 helicopter visits per week; operational durations of 10 days for each pre-drill site survey, 95 days WA-285-P drilling and 150 days WA-343-P drilling; allowance for two DST per well.

### 3.6 Summary of emissions, discharges and wastes

A summary of the emissions, discharges, and wastes resulting from the activities are described in Table 3-6, including indicative volumes where relevant. Relevant monitoring and measurement conducted on the emissions and discharges are detailed below and further described within the respective subsections of Section 7.

Table 3-6: Emissions (E), discharges (D) and wastes (W) generated during the planned activity

Activity/system	E, D, W	Description	
Pre-drill site surveys	E	Survey vessel	Noise emissions from survey vessel engines.

Activity/system	E, D, W	Description	
			Combustion emissions from survey vessels and diesel-powered generators onboard emitted to the atmosphere. Approximately 544 t-CO <sub>2</sub> -e
	E	Survey equipment	Noise emissions from echo sounders, side-scan sonar and sub-bottom profiling.
ROV operations	D	MODU or vessel based ROV	Routine subsea discharges of water-based hydraulic fluids and subsea control fluids (< 1 m <sup>3</sup> ).
BOP	D	MODU	Water-based BOP control fluids. BOP function/pressure testing results in approximately 0.25 m <sup>3</sup> of BOP fluid discharged to the marine environment per test.
Drilling	E	MODU	Noise emissions resulting from drilling.
Drilling fluids	D	MODU	Basic WBM system uses low-toxicity drilling fluid that is benign to the environment. Sections of the well will be drilled with SBM for technical reasons (Table 3-1). All drilling fluids selected for use are assessed and approved by the environmental advisor prior to use.
Drill cuttings	D	MODU	While drilling riserless, all returns will be to the seabed. For well sections that require SBM, SCE will be used, and cuttings discharged from the surface. No whole SBM will be discharged, only residual <b>fluid on drill cuttings will be discharged (≤7% oil-on-cuttings wt/wt (averaged over the SBM sections))</b> .
Cementing	D	MODU	Seabed discharge of cement at each well location may cover an area of seabed up to 10 m <sup>2</sup> from the well, in addition to surface discharge from tank cleaning. Any bulk cement remaining at the end of the campaign is transferred onshore for disposal/reuse. Should this option not be available, the remaining cement will be mixed and operationally discharged to the marine environment.
Gas venting	E	MODU	Atmospheric emissions when venting during drilling (via the mud-gas separator during well control operations).

Activity/system	E, D, W	Description	
Drill stem testing	E	MODU	Flaring of gas (approximately 36 hours duration up to twice per well), burning of hydrocarbons, cold venting of gases from tank vents. Utilisation of diesel driven air compressors and steam generators. Flared gas: approximately 33,803 t-CO <sub>2</sub> -e Flared liquids: approximately 9,205 t-CO <sub>2</sub> -e Fugitive emissions: approximately 152 t-CO <sub>2</sub> -e
	D	MODU	PW generated during the DST will either be recombined with the condensate and sent to flare for disposal, or where poor burn quality is observed it will be processed via a water filtration unit and discharged overboard at an oil in water (OIW) concentration of < 30 ppm.
	D	MODU	Mono ethylene glycol (MEG) is injected to the well during the DST (approximately 4 m <sup>3</sup> per well) and is ultimately discharged to sea.
VSP	E	MODU	Noise emissions (pulses) from seismic source during VSP (approximate 18 hours duration). Typical total array volume of 0.012 m <sup>3</sup> (~750 cubic inches).
Power generation	E	MODU	Combustion emissions from MODU and diesel-powered generators onboard emitted to the atmosphere. Moored MODU approximately 9,955 t-CO <sub>2</sub> -e DP MODU approximately 19,910 t-CO <sub>2</sub> -e
	E	MODU	Noise emissions from power generation (and other topside activities) including DP thrusters.
	E	Vessels	Combustion emissions from support vessels and diesel-powered generators onboard emitted to the atmosphere. Approximately 16,064 t-CO <sub>2</sub> -e
	E	Vessels	Noise emissions from support vessel engines and propulsion systems (such as DP thrusters).
	E	Helicopter	Combustion emission from helicopters - aviation fuel emitted to the atmosphere. Approximately 6,027 t-CO <sub>2</sub> -e
Cooling water	D	MODU Vessels	Seawater used as heat-exchange medium for machinery engines. Return seawater containing residual heat and residual sodium hypochlorite is returned to sea.

Activity/system	E, D, W	Description	
			During DST, a deluge of cooling water (seawater) is used to cool the exterior of the MODU during flaring and returned to sea containing residual heat.
Open-drains system	D	MODU	The MODU main deck and moon pool areas will have an open drains system. Deck drainage water will be discharged to sea. Note low toxicity rig wash will be used for washing the main deck of the MODU. MODU drill floor drainage may be routed for mud recovery and re-used in the active mud system.
Closed-drains system	W	MODU	The MODU pump rooms and engine rooms are closed drainage areas. Oily waste material from the closed drains is collected in a holding tank and returned to shore for treatment and disposal. During the use of SBM, all drains in areas exposed to SBM will be plugged. A mud vacuum system (mud-vac) will be used to collect spillages of SBM. The SBM collected by the mud-vac will either be treated and reused or shipped to shore for disposal.
Vessel deck drainage	D	Vessels	Vessel deck drainage water will be discharged to sea.
Bilge system	D	MODU Vessels	Treated contaminated bilge water with <15 ppm(v) OIW is discharged to sea.
Sewage, grey water and macerated food waste effluent	D	MODU Vessels	Treated effluent produced by sewage treatment plants is discharged to sea.
Ballast system	D	MODU Vessels	Return ballast is discharged to sea.
Foam fire-extinguishing	D	MODU Vessels	Firefighting foam is routed to the open-drains/deck drainage system and may be released to sea in the event of system deployment. Minor quantities of wind-blown foam may also be released.
Desalination brine	D	MODU Vessels	Brine produced from the Reverse Osmosis (RO) process will be diluted and discharged to sea.
Miscellaneous	E	MODU	Light emissions from deck and navigation lights on MODU and vessels.

Activity/system	E, D, W	Description	
	W	Vessels	Solid and liquid wastes from general maintenance operations, equipment replacement, etc., and domestic wastes are transported to shore for disposal.



## 4 EXISTING ENVIRONMENT

### 4.1 Regional setting

Exploration permits WA-285-P and WA-343-P are situated in the northern Browse Basin (Figure 1-1). In the event of a worst-case unplanned oil spill, the area potentially exposed to hydrocarbons, hereafter referred to as the potential exposure zone (PEZ), covers a considerably larger area than the permit areas where planned activities will occur.

The spatial extent of the PEZ was determined from stochastic spill modelling using the low hydrocarbon exposure thresholds described in NOPSEMA Bulletin #1 (NOPSEMA 2019). This considered the worst-case credible hydrocarbon scenarios identified for the activity (refer Section 7.7, Table 7-16) for surface hydrocarbons, shoreline accumulations of oil, and entrained oil and dissolved aromatic hydrocarbons in the water column. The PEZ has been used to identify relevant values and sensitivities that may be affected and has been used as the basis for the EPBC Act Protected Matters database search (Appendix A.1). In addition, an EPBC Act Protected Matters database search was undertaken for each permit area and is also presented in Appendix A.1.

The low thresholds that have been used to inform the extent of the PEZ are useful for oil spill response planning and scientific monitoring (water quality) purposes but may not be ecologically significant (NOPSEMA 2019). Therefore, in addition to the PEZ, an environment that may be affected (EMBA) has also been established from stochastic spill modelling using hydrocarbon exposure thresholds identified as having the potential to cause impacts to receptors such as fauna and habitats (refer Section 8, Table 8-2). An EPBC Act Protected Matters database search was also undertaken for the EMBA and is presented in Appendix A.1.

The resulting PEZ and EMBA from the oil spill modelling are the sum of 300 overlaid stochastic modelling runs for the worst-case spill scenarios (Table 8-1), during all seasons (wet, transitional and dry) and under different hydrodynamic conditions (e.g. currents, winds, tides, etc.). As such, the actual area that may be affected from any single spill event would be considerably smaller than represented by the PEZ or EMBA. The PEZ and EMBA are both geographically represented in the figures throughout this section of the EP and in Figure 8-1. As further detailed in Appendix B.7a, if time-weighted modelling was used to inform the resulting PEZ and EMBA, it would result in the significant reduction in geographical extent of both the PEZ and EMBA.

#### 4.1.1 Australian waters

**Australia's offshore waters have been divided into six marine regions in order to facilitate** their management by the Australian Government under the EPBC Act. The permit areas are located entirely within the North-west Marine Region (NWMR). The PEZ intersects both the NWMR and the North Marine Region (NMR). The relevant key features of the NWMR and NMR in the context of WA-285-P, WA-343-P and the PEZ are further described in subsequent sections of this EP.

##### North-west Marine Region

The NWMR comprises Commonwealth waters, from the WA–Northern Territory (NT) border in the north, to Kalbarri in the south. The NWMR encompasses a number of regionally important marine communities and habitats which support a high biodiversity of marine life and feeding and breeding aggregations (DSEWPac 2012a).

## North Marine Region

The NMR comprises Commonwealth waters from the WA–NT border to West Cape York Peninsula. This region is highly influenced by tidal flows and less by ocean currents. The marine environment of the NMR is known for its high diversity of tropical species but relatively low endemism, in contrast to other bioregions (DSEWPaC 2012b).

### 4.1.2 External Australian Territories

In total there are seven Australian external territories: Ashmore and Cartier Islands, Australian Antarctic Territory, Christmas Island, Cocos (Keeling) Islands, Coral Sea Islands, Heard and McDonald Islands and Norfolk Island (Geoscience Australia 2022a). They represent remote offshore territories located in the Pacific, Indian and Southern oceans, and the Coral Sea (Geoscience Australia 2022a). External Australian territories located within the PEZ include Ashmore and Cartier Islands, Christmas Island and the Cocos (Keeling) Islands described in Section 4.3.

### 4.1.3 International waters

The PEZ extends into the international waters of the Lesser Sunda Ecoregion and locations along the Indonesian shoreline. The Indonesian archipelago lies between the Pacific and Indian oceans and bridges the continents of Asia and Australia and comprises of over 17,000 islands (Huffard et al. 2012). The archipelago is divided into several shallow shelves and deep-sea basins (ABD 2014). Indonesian waters, especially the eastern part of the archipelago, play an important role in the global water mass transport system, in which warm water at the surface conveys heat to deeper cold waters. The water mass transport from the Pacific to the Indian Ocean through various channels in Indonesia is known as the Indonesian Throughflow (described in Section 4.8.2).

The Lesser Sunda Ecoregion, located at the southern end of the Coral Triangle, encompasses the chain of islands and surrounding waters from Bali, Indonesia to Timor-Leste including **East Nusa Tenggara (Indonesia's southernmost province)**.

This region contains suitable habitat for corals and is considered important for coral endemism, particularly the areas of Bali-Lombok, Komodo and East Flores. The Indonesian coastline is rich in tropical marine ecosystems such as sandy beaches, mangroves, coral reefs and seagrasses (Hutomo & Moosa 2005). The majority of the West Timor coastline features a narrow fringing coral reef community with four dense areas of mangrove communities occurring primarily along the south coast (Allen & Erdmann 2013). The Timor-Leste coastline also features mangrove communities surrounding entrances to rivers primarily on the south coast, whilst the north and eastern coasts comprise a higher degree of coral reef communities (Allen & Erdmann 2013).

## 4.2 Key ecological features

The Australian Government has identified parts of the marine ecosystem that are of **importance for a marine region's biodiversity or ecosystem function and integrity, referred to as key ecological features (KEFs)**. The permit areas both overlap one KEF, and a further 13 are located within the PEZ (Figure 4-1) as follows:

WA-285-P:

- Continental slope demersal fish communities.

WA-343-P:

- Continental slope demersal fish communities.

PEZ:

- Ancient coastline at 125 m depth contour
- Ashmore Reef and Cartier Island and surrounding Commonwealth waters
- Canyons linking the Argo Abyssal Plain with Scott Plateau
- Canyons linking the Cuvier Abyssal Plain and the Cape Range Peninsula
- Carbonate bank and terrace system of the Sahul Shelf
- Mermaid Reef and Commonwealth waters surrounding the Rowley Shoals
- Pinnacles of the Bonaparte Basin
- Seringapatam Reef and Commonwealth waters in the Scott Reef complex
- Carbonate bank and terrace system of the Van Diemen Rise
- Shelf break and slope of the Arafura Shelf
- Exmouth Plateau
- Glomar Shoals.

#### 4.2.1 Continental slope demersal fish communities

WA-285-P and WA-343-P both overlap the continental slope demersal fish community KEF. The level of endemism of demersal fish species in this community is the highest among Australian continental slope environments.

The demersal fish species occupy two distinct demersal community types associated with the upper slope (water depth of 225–500 m) and the mid-slope (750–1,000 m) (DAWE 2022b). Although poorly studied, 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 fish, molluscs and crustaceans (Brewer et al. 2007). Higher-order consumers may include carnivorous fish, deep-water sharks, large squid and toothed whales (Brewer et al. 2007). Pelagic production is phytoplankton based, with hot spots around oceanic reefs and islands (Brewer et al. 2007).

Bacteria and fauna present on the continental slope are the basis of the food web for demersal fish and higher-order consumers in this system. Therefore, loss of benthic habitat along the continental slope at depths known to support demersal fish communities could lead to a decline in species richness, diversity and endemism associated with this feature (DSEWPaC 2012a). Other potential concerns with regard to pressure on the continental slope demersal fish community KEF include climate change (increasing sea temperature/ocean acidification), habitat modification due to fishing gear and commercial fishing by-catch resulting in the potential to diminish the species richness and diversity of these communities (DAWE 2022b).

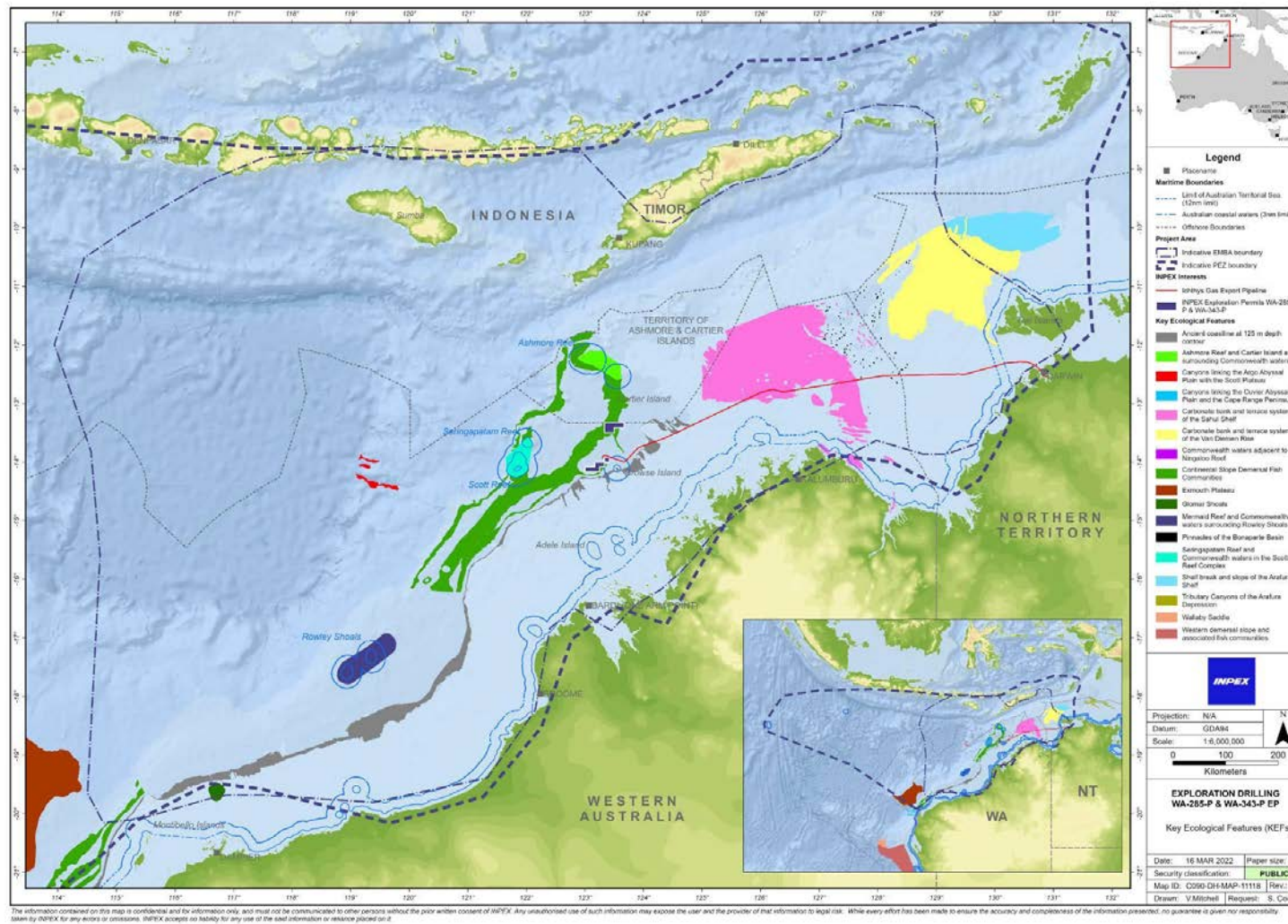


Figure 4-1: Key ecological features in north-west Australia (showing PEZ and EMBA)

#### 4.2.2 Ancient coastline at 125 m depth contour

The ancient coastline at 125 m depth contour KEF runs diagonally in a north-easterly direction, approximately 10 km south of WA-285-P and 30 km east of WA-343-P at the closest points. Parts of the ancient coastline, particularly where it exists as a rocky escarpment, are thought to provide biologically important habitats in areas otherwise dominated by soft sediments. The topographic complexity of the escarpments may facilitate vertical mixing of the water column, providing relatively nutrient-rich local environments. The ancient coastline is an area of enhanced productivity, attracting baitfish which, in turn, supplies food for migrating species (DSEWPaC 2012a).

While there is little information available on the fauna associated with the hard substrate of the escarpment, it is likely to include sponges, corals, crinoids, molluscs, echinoderms and other benthic invertebrates representative of hard substrate fauna in the NWMR (DSEWPaC 2012a).

#### 4.2.3 Ashmore Reef and Cartier Island and surrounding Commonwealth waters

The Ashmore Reef and Cartier Island and surrounding Commonwealth waters KEF is located approximately 150 km north of WA-285-P and 80 km from WA-343-P at the closest points. The KEF is recognised for its ecological functioning and integrity (high productivity), and biodiversity (aggregations of marine life) values, which apply to both the benthic and pelagic habitats within the feature.

Ashmore Reef is the largest of only three emergent oceanic reefs in the north-eastern Indian Ocean and is the only oceanic reef in the region with vegetated islands. The waters surrounding Ashmore Reef and Cartier Island are important because they are areas of enhanced productivity in relatively unproductive waters (DSEWPaC 2012a).

Further details regarding the Ashmore Reef and Cartier Island and surrounding Commonwealth waters KEF are provided in Section 4.3 which describes Australian Marine Parks.

#### 4.2.4 Canyons linking the Argo Abyssal Plain with the Scott Plateau

The canyons linking the Argo Abyssal Plain with the Scott Plateau KEF is located approximately 350 km west of WA-285-P and 400 km west of WA-343-P at the closest points. The Bowers and Oats canyons are major canyons on the slope between the Argo Abyssal Plain and Scott Plateau. The canyons cut deeply into the south-west margin of the Scott Plateau at a depth of approximately 2,000–3,000 m, and act as conduits for transport of sediments to depths of more than 5,500 m on the Argo Abyssal Plain. Benthic communities at these depths are likely to be dependent on particulate matter falling from the pelagic zone to the seafloor. The ocean above the canyons may be an area of moderately enhanced productivity, attracting aggregations of fish and higher order consumers, such as large predatory fish, sharks, toothed whales and dolphins. The canyons linking the Argo Abyssal Plain and Scott Plateau are likely to be important features due to their historical association with sperm whale aggregations (DSEWPaC 2012a).

#### 4.2.5 Canyons linking the Cuvier Abyssal Plain and the Cape Range Peninsula

The canyons linking the Cuvier Abyssal Plain and the Cape Range Peninsula KEF is located approximately 1,200 km south of WA-285-P and 1,290 km south of WA-343-P at the closest points. Cape Range Peninsula and the Cuvier Abyssal Plain are linked by canyons, the largest of which are the Cape Range Canyon and Cloates Canyon. These two canyons are located along the southerly edge of Exmouth Plateau adjacent to Ningaloo Reef and are unique due to their close proximity to the North West Cape (DSEWPaC 2012a). The Leeuwin Current interacts with the heads of the canyons to produce eddies resulting in delivery of higher nutrient, cool waters from the Antarctic intermediate water mass to the shelf (Brewer et al. 2007). Strong internal tides also create upwelling at the canyon heads (Brewer et al. 2007). Therefore, the canyons, the Exmouth Plateau and the Commonwealth waters adjacent to Ningaloo Reef interact to create the conditions for enhanced productivity seen in this region (DSEWPaC 2012a). The canyons are also repositories for particulate matter deposited from the shelf and sides of the canyons and serve as conduits for organic matter between the surface, shelf and abyssal plains (DSEWPaC 2012a).

The soft bottom habitats within the canyons themselves are likely to support important assemblages of epibenthic species. Biological productivity at the head of Cape Range Canyon in particular, is known to support species aggregations, including whale sharks, manta rays, humpback whales, sea snakes, sharks, large predatory fish and seabirds. The canyons are thought to be significant contributors to the biodiversity of the adjacent Ningaloo Reef, as they channel deep water nutrients up to the reef, stimulating primary productivity (DSEWPaC 2012a).

#### 4.2.6 Carbonate Bank and Terrace System of the Sahul Shelf

The carbonate bank and terrace system of the Sahul Shelf KEF is located in the western Joseph Bonaparte Gulf, approximately 205 km north-east of WA-285-P and 150 km from WA-343-P at the closest points. The KEF is recognised for its biodiversity values (a unique seafloor feature with ecological properties of regional significance), which apply to both its benthic and pelagic habitats. The banks consist of a hard substrate with flat tops. Each bank occupies an area generally less than 10 km<sup>2</sup> and is separated from the next bank by narrow sinuous channels up to 150 m deep (DSEWPaC 2012a).

Although little is known about the bank and terrace system of the Sahul Shelf, it is considered to be regionally important due to its continuous and large expanse, as well as the ecological role it is likely to play in the biodiversity and productivity of the Sahul Shelf (DSEWPaC 2012a). The banks support a high diversity of organisms, including reef fish, sponges, soft and hard corals, gorgonians, bryozoans, ascidians and other sessile filter-feeders (Brewer et al. 2007). They are foraging areas for loggerhead, olive ridley and flatback turtles. Humpback whales and green and freshwater sawfish are also likely to occur in the KEF (Donovan et al. 2008). However, due to their ecology, sawfish (generally estuarine rather than open-ocean species), are not expected to be present within open-ocean environments.

#### 4.2.7 Mermaid Reef and Commonwealth waters surrounding Rowley Shoals

The Mermaid Reef and the Commonwealth waters surrounding Rowley Shoals KEF is located approximately 475 km south-west of WA-285-P and 545 km from WA-343-P at the closest points. The Rowley Shoals are a collection of three atoll reefs, Clerke, Imperieuse and Mermaid, which are located approximately 300 km north-west of Broome. The KEF is regionally important in supporting high species richness, higher productivity and aggregations of marine life associated with the adjoining reefs themselves (Done et al. 1994; DSEWPaC 2012a).

The reefs provide a distinctive biophysical environment in the region as there are few offshore reefs in the north-west. They have steep and distinct reef slopes and associated fish communities. Enhanced productivity contributes to species richness due to the mixing and resuspension of nutrients from water depths of 500-700 m into the photic zone (DSEWPaC 2012a). 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 et al. 1994).

#### 4.2.8 Pinnacles of the Bonaparte Basin

The Pinnacles of the Bonaparte Basin KEF is located approximately 460 km east of WA-285-P and 415 km from WA-343-P at the closest points. This KEF consists of an area containing limestone pinnacles, up to 50 m high (above the surrounding seabed) and is located in the western Joseph Bonaparte Gulf on the mid-to-outer edge of the shelf (DSEWPaC 2012b). They represent 61% of the limestone pinnacles in the NWMR and 8% of limestone pinnacles in the Australian EEZ (Baker et al. 2008).

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 2012b).

As the pinnacles provide areas of hard substrate in an otherwise relatively featureless, soft sediment environment they are presumed to support a high number of species. Associated communities are thought to include sessile benthic invertebrates including hard and soft corals and sponges, and aggregations of demersal fish species such as snapper, emperor and grouper (Brewer et al. 2007). The pinnacles are thought to be a feeding area for flatback, loggerhead and olive ridley turtles, while green turtles may traverse the area. Humpback whales and green sawfish are also likely to occur in the KEF (Donovan et al. 2008). However, due to their ecology, sawfish (generally estuarine rather than open-ocean species) are not expected to be present within open-ocean environments.

#### 4.2.9 Seringapatam Reef and Commonwealth waters in the Scott Reef Complex

The Seringapatam Reef and Commonwealth waters in the Scott Reef Complex KEF is located approximately 105 km west of WA-285-P and 135 km from WA-343-P at the closest points and comprises Seringapatam Reef, Scott Reef North and Scott Reef South. Scott and Seringapatam reefs are part of a series of submerged reef platforms that rise steeply from the seafloor. The total area of this KEF is approximately 2,400 km<sup>2</sup> (DSEWPaC 2012a).

Seringapatam Reef is a small circular-shaped reef, the narrow rim of which encloses a relatively deep lagoon. Much of the reef becomes exposed at low tide. There are large boulders around its edges, with a few sandbanks, which rise about 1.8 m above the water, on the west side. The reef covers an area of 55 km<sup>2</sup> (including the central lagoon). Scott Reef North is a large circular-shaped reef composed of a narrow crest, backed by broad reef flats, and a deep central lagoon that is connected to the open sea by two channels. The reef and its lagoon cover an area of 106 km<sup>2</sup>. Scott Reef South is a large crescent-shaped formation with a double reef crest. The reef and its lagoon cover an area of 144 km<sup>2</sup>.

Scott and Seringapatam reefs are regionally significant because of their high representation of species not found in coastal waters off WA, and for the unusual nature of their fauna which has affinities with the oceanic reef habitats of the Indo-West Pacific, as well as the reefs of the Indonesian region.

The coral communities at Scott and Seringapatam reefs play a key role in maintaining the species richness and subsequent aggregations of marine life identified as conservation values for this KEF. Scott Reef is a particularly biologically diverse system and includes more than 300 species of reef-building corals, approximately 400 mollusc species, 118 crustacean species, 117 echinoderm species, and around 720 fish species (Woodside 2009).

Scott and Seringapatam reefs, and the waters surrounding them, attract aggregations of marine life, including humpback whales, blue whales and other cetacean species, whale sharks and sea snakes (Donovan et al. 2008; Jenner et al. 2008; Woodside 2009). Two species of marine turtle, the green and hawksbill, nest during the summer months on Sandy Islet (a small sand cay), located on Scott Reef South. These species also internest and forage in the surrounding waters (Guinea 2006). The reef also provides foraging areas for seabird species, such as the lesser frigatebird, wedge-tailed shearwater, brown booby and roseate tern (Donovan et al. 2008).

#### 4.2.10 Carbonate bank and terrace system of the Van Diemen Rise

The carbonate bank and terrace system of the Van Diemen Rise KEF is located approximately 570 km north-east from WA-285-P and 525 km from WA-343-P at the closest points. It is situated to the north-west of the Tiwi Islands (the two principal islands of which are Melville Island and Bathurst Island).

The carbonate bank and terrace system of the Van Diemen Rise KEF supports a complex system of shallow carbonate banks and shoals over a limestone terrace, strongly dissected by tidal channels and paleo-river channels (including the >150 m deep Malita Shelf Valley). Shallow, clear waters provide for a deep euphotic zone, the depth to which sufficient light for photosynthesis penetrates into the ocean. Therefore, enhanced benthic primary production and localised upwellings generated by interactions between the complex topography and tidal currents encourage phytoplankton productivity and aggregations of fish. The banks, shoals and channels offer a heterogeneous environment of shallow to deep reef, canyon, soft sediment and pelagic habitats to a diverse range of tropical species of predominantly Western Australian affinities (DSEWPac 2012b).

#### 4.2.11 Shelf break and slope of the Arafura Shelf

The shelf break and slope of the Arafura Shelf KEF is located approximately 775 km north-east of WA-285-P and 720 km from WA-343-P at the closest points. The Arafura Shelf is an area of continental shelf up to 350 km wide and mostly 50–80 m deep, comprising of sea-floor features such as canyons, terraces, the Arafura Sill and the Arafura Depression.

The shelf break and slope of the Arafura Shelf is characterised by continental slope and patch reefs, and hard substrate pinnacles (DSEWPac 2012b). 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 typical of that found elsewhere in tropical waters around Northern Australia, Indonesia, Timor-Leste and Malaysia (DSEWPac 2012b).



#### 4.2.12 Exmouth Plateau

The Exmouth Plateau KEF is located approximately 1,075 km south of WA-285-P and 1,150 km from WA-343-P at the closest points. The Exmouth Plateau KEF is a regionally and nationally unique tropical deep-sea plateau with ecological properties of regional significance and covers an area of 49,310 km<sup>2</sup>. The plateau ranges in water depths from **800 to 4,000 m (DSEWPaC 2012a)**. **The plateau's surface is rough and undulating at 800–1,000 m depth.** The northern margin is steep and intersected by large canyons (e.g. Montebello and Swan canyons) with relief greater than 50 m. The western margin is moderately steep and smooth, and the southern margin is gently sloping and virtually free of canyons (DSEWPaC 2012a).

The Exmouth Plateau is thought to play an important ecological role by acting as a topographic obstacle that modifies the flow of deep waters that generate internal tides, causing upwelling of deeper water nutrients closer to the surface (Brewer et al. 2007). Sediments on the plateau suggest that biological communities include scavengers, benthic filter feeders and epifauna. Fauna in the pelagic waters above the plateau are likely to include small pelagic species (Brewer et al. 2007).

#### 4.2.13 Glomar Shoals

The Glomar Shoals KEF lies approximately 895 km south of WA-285-P and 970 km from WA-343-P at the closest points. Glomar Shoals are a submerged littoral feature on the Rowley Shelf at depths of 33–77 m (Falkner et al. 2009). The shoals consist of a high percentage of marine-derived sediments with high carbonate content and gravels of weathered coralline algae and shells (McLoughlin & Young 1985). **The area's higher concentrations of coarse material in comparison to surrounding areas are indicative of a high-energy environment subject to strong sea-floor currents (Falkner et al. 2009).** Cyclones are also frequent in this area of the north-west and stimulate periodic bursts of productivity as a result of increased vertical mixing.

While much of the biodiversity associated with the Glomar Shoals has not been studied the fish of Glomar Shoals are probably a subset of reef-dependent species, and anecdotal and fishing industry evidence suggests they are particularly abundant (DSEWPaC 2012a).

### 4.3 Australian marine parks

Australian Marine Parks (AMPs) have been established around Australia as part of the National Representative System of Marine Protected Areas (NRSMPA). The primary goal of the NRSMPA is to establish and effectively manage a comprehensive, adequate and representative system of marine reserves to contribute to the long-term conservation of marine ecosystems and protect marine biodiversity.

**Petroleum activities fall within the definition of 'mining operations' (EPBC Act section 355)** and are allowed to occur inside certain zones within some AMPs. Zones are classified according to the International Union for the Conservation of Nature (IUCN) Categories for Marine Protected Areas (NOPSEMA 2023).

The IUCN categories that are present within the AMPs intersected by the PEZ, as shown in Table 4-1, include:

- IUCN Category Ia – Strict nature reserve – Protected area managed mainly for science.
- IUCN Category II – National Park – Protected area managed mainly for ecosystem conservation and recreation.
- IUCN Category IV – Habitat/species management area – Protected area managed mainly for conservation through management intervention.

- IUCN Category VI – Managed resources protected areas – Protected area managed mainly for the sustainable use of natural ecosystems. Area containing predominantly unmodified natural systems, managed to ensure long term protection and maintenance of biological diversity, while providing at the same time a sustainable flow of natural products and services to meet community needs.

The Director of National Parks (DNP) may make, amend and revoke prohibitions, restrictions and determinations under regulations 12.23, 12.23A, 12.26, 12.56 and 12.58 of the EPBC Regulations where it is considered necessary to:

- protect and conserve biodiversity and other natural, cultural and heritage values; or
- to ensure human safety or visitor amenity; or
- where it is otherwise necessary to give effect to the management plan.

At commencement of the North-west Marine Parks Network Management Plan (DNP 2018a) prohibitions made under regulation 12.23 of the EPBC Regulations are in place prohibiting entry to Ashmore Reef Marine Park, other than parts of West Lagoon and West Island, to protect the fragile habitats and biodiversity, and to Cartier Island Marine Park due to the presence of unexploded ordnance. These have been in place for many years. Determinations made under Regulation 12.56 of the EPBC Regulations prohibit anchoring in Mermaid Reef Marine Park and prescribe where vessels must be moored to minimise damage to the reef.

All visitors to Ashmore Reef and Cartier Island (except recreational boat users accessing the Marine National Park Zone of Ashmore Reef) require approval from the Commonwealth Department of Climate Change, Energy, the Environment and Water (DCCEEW). Undertaking other activities in these AMPs may also require approval from the DNP under Part 13 of the EPBC Act.

The Commonwealth DNP has issued a general approval under Section 359B of the EPBC Act allowing a range of activities to occur within these AMPs. The activities approved **including 'mining operations' which, as defined under the EPBC Act, also includes all petroleum activities**, including associated emergency response activities. No other approvals relating to this activity are required from the DNP.

Actions to respond to oil pollution incidents (including environmental monitoring and remediation) in AMPs, can be undertaken without an authorisation issued by the DNP, provided that the actions are undertaken in accordance with an EP that has been accepted by NOPSEMA. However, the DNP is to be notified of the pollution event or proposed spill response actions within AMPs prior to the activity being undertaken where practicable. WA-285-P and WA-343-P do not overlap any AMPs (Figure 4-2).

The AMPs that overlap the PEZ and their IUCN categories are outlined in Table 4-1 with a further description provided in subsequent sections.

Table 4-1: AMP and IUCN categories

AMP	Sanctuary Zone (IUCN Ia)	(Marine) National Park Zone (IUCN II)	Habitat Protection Zone (IUCN IV)	Recreational Zone (IUCN IV)	Multiple Use Zone (IUCN VI)	Special Purpose Zone (IUCN VI)	Special Purpose Zone (Trawl) (IUCN VI)
Argo-Rowley Terrace		X			X		X
Ashmore Reef	X			X			

AMP	Sanctuary Zone (IUCN Ia)	(Marine) National Park Zone (IUCN II)	Habitat Protection Zone (IUCN IV)	Recreational Zone (IUCN IV)	Multiple Use Zone (IUCN VI)	Special Purpose Zone (IUCN VI)	Special Purpose Zone (Trawl) (IUCN VI)
Cartier Island	X						
Christmas Island		X	X				
Cocos (Keeling) Islands		X	X				
Eighty Mile Beach					X		
Gascoyne					X		
Joseph Bonaparte Gulf					X	X	
Kimberley		X	X		X		
Mermaid Reef		X					
Montebello					X		
Oceanic Shoals		X	X		X		X
Roebuck					X		

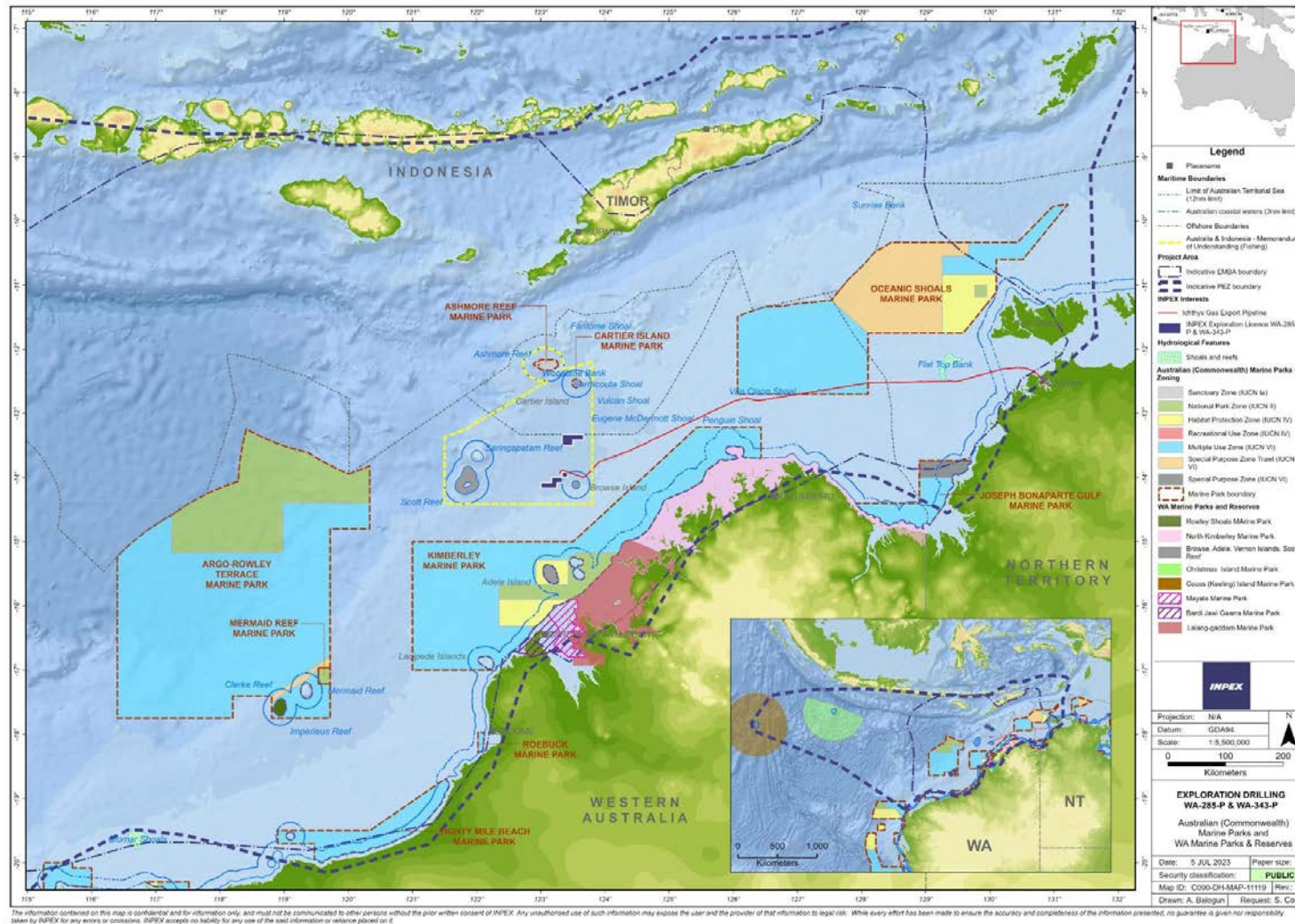


Figure 4-2: Australian and state marine parks, reserves, banks and shoals

#### 4.3.1 Argo-Rowley Terrace MP

The Argo-Rowley Terrace MP covers an area of approximately 146,000 km<sup>2</sup> and is the largest AMP in the north-west (Parks Australia 2022b). Its eastern boundary is approximately 285 km from WA-285-P and 325 km from WA-343-P.

The Argo-Rowley Terrace MP is an important area for sharks, which are found in abundance around the Rowley Shoals, and provides important foraging areas for migratory seabirds and the endangered loggerhead turtle (DNP 2018a). There is limited information about the cultural significance of this MP to indigenous Australians (DNP 2018a).

#### 4.3.2 Ashmore Reef MP

Ashmore Reef MP is in the NWMR and is located approximately 175 km north of WA-285-P and 115 km from WA-343-P. It covers an area of 583 km<sup>2</sup> and the site is also a designated a **“wetland of international importance” under the Convention on Wetlands of International Importance (Ramsar Convention)** especially as Waterfowl Habitat (Parks Australia 2022c) (refer Section 4.6.1).

Ashmore Reef is an atoll-like structure with low, vegetated islands, sand banks, lagoon areas, and surrounding reef. It 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. The reef exhibits a higher diversity of marine habitats compared with other North West Shelf (NWS) reefs, and supports an exceptionally diverse fauna, particularly for corals and molluscs (DNP 2018a).

The reef and its surrounding Commonwealth waters are regionally important for feeding and breeding aggregations of birds. It has major significance as a staging point for wading birds migrating between Australia and the northern hemisphere, including 43 species listed on one or both of the China–Australia Migratory Bird Agreement (CAMBA) and the Japan–Australia Migratory Bird Agreement (JAMBA).

Ashmore Reef supports some of the most important seabird rookeries on the NWS, including colonies of bridled terns, common noddies, brown boobies, eastern reef egrets, frigatebirds, tropicbirds, red-footed boobies, roseate terns, crested terns and lesser crested terns. It provides important staging points/feeding areas for many migratory seabirds (Parks Australia 2022c; DNP 2018a).

There is limited information about the cultural significance of this MP to indigenous Australians (DNP 2018a). However, Ashmore Reef MP contains Indonesian artefacts and grave sites and Ashmore lagoon is still accessed as a rest or staging area for traditional Indonesian fishers travelling to and from fishing grounds within the MoU Box (Figure 4-2) (DNP 2018a).

#### 4.3.3 Cartier Island MP

Cartier Island MP is located in the NWMR approximately 145 km north of WA-285-P and 80 km from WA-343-P. The Cartier Island MP covers an area of approximately 172 km<sup>2</sup> (Parks Australia 2022d). The reserve includes Cartier Island and the area within a 4-nm-radius of the centre of the island, to a depth of 1 km below the seafloor. It is an IUCN Category Ia Sanctuary Zone with water depths from less than 15 m to 500 m (DNP 2018a).

Cartier Island is an unvegetated sandy cay surrounded by a reef platform. The island and its surrounding waters support prolific seabird rookeries, many species of which are migratory and have their main breeding sites on the small, isolated islands. Seabirds at Cartier Island include colonies of bridled terns, common noddies, brown boobies, eastern reef egrets, frigatebirds, tropicbirds, red-footed boobies, roseate terns, crested terns and lesser crested terns (Parks Australia 2022d). Much like Ashmore Reef, Cartier Island is an important staging point/feeding area for many migratory seabirds. The island also supports significant populations of feeding and nesting marine turtles and a high abundance and diversity of sea snakes (DSEWPaC 2012a).

Cartier Island is part of the Ashmore Reef and Cartier Island and surrounding Commonwealth waters KEF (Section 4.2.2). There is limited information about the cultural significance of this MP to indigenous Australians (DNP 2018a).

#### 4.3.4 Christmas Island MP

Established in March 2022, Christmas Island MP is one of two Indian Ocean Territories MPs. It covers an area of 277,016 km<sup>2</sup> **and extends from the island's shoreline to the limit of Australia's EEZ, approximately 200 nm from shore** (except to the north of Christmas Island) (Parks Australia 2022m).

The Christmas Island MP, located approximately 1,950 km from WA-285-P and WA-343-P, provides habitats for a range of migratory and threatened species and adjoins the Christmas Island National Park. Christmas Island covers an area of approximately 135 km<sup>2</sup> and is the summit of a submarine mountain, which rises steeply from sea level to a central plateau. The plateau reaches heights of up to approximately 360 m and consists mainly of limestone and layers of volcanic rock. Surrounding Christmas Island is a narrow tropical reef which plunges steeply to the ocean floor. The seafloor drops steeply to reach depths of 500 m within approximately 200 m of the shoreline (Geoscience Australia 2022b).

The Christmas Island MP contains a mix of coral reef species from both the Indian and Pacific Oceans and over 680 species of fish have been recorded in the region (Parks Australia 2022m). Christmas Island is known for its populations of more than 20 species of terrestrial and intertidal crabs, most notably the red crab (*Gecarcoidea natalis*) (Geoscience Australia 2022b; DAWE 2022a). Hosnies Spring and the Dales Ramsar sites are located on Christmas Island (described in Section 4.6).

#### 4.3.5 Cocos (Keeling) Islands MP

Established in March 2022, Cocos (Keeling) Islands MP is one of two Indian Ocean Territories MPs. It covers an area of 467,054 km<sup>2</sup> **and extends from most of the islands' shoreline to the limit of Australia's EEZ, approximately 200 nm from shore** (Parks Australia 2022n).

The Cocos (Keeling) Islands are a series of 27 coral islands formed into two large coral atolls situated in the Indian Ocean, with a total land area of 14 km<sup>2</sup> (Geoscience Australia 2022c). The Cocos Islands are approximately 2,900 km from WA-285-P and WA-343-P. The Cocos (Keeling) Islands MP adjoins the Pulu Keeling National Park and contains abundant wildlife, particularly seabirds (Parks Australia 2022n).

The Cocos (Keeling) Islands MP also has land crabs, turtles, and a wide variety of corals, fish, molluscs, crustaceans and dolphins, deep sea fish and sharks, as well as other species (Geoscience Australia 2022c). The Cocos (Keeling) Islands MP also contains the foraging habitat of thousands of seabirds which nest on North Keeling Island (Pulu Keeling National Park), (Parks Australia 2022n).

North Keeling Island and the marine area extending 1.5 km from the coastline forms Australia's most remote Commonwealth National Park, the Pulu Keeling National Park, which is also a Ramsar site (described in Section 4.6.4). The Cocos (Keeling) Islands provide important habitat for green turtles with a 20 km interesting buffer surrounding the Pulu Keeling National Park (October to April) (DEE 2017a).

#### 4.3.6 Eighty Mile Beach MP

The Eighty Mile Beach MP is located in the NWMR and is approximately 535 km south of WA-285-P and 620 km from WA-343-P. The Eighty Mile Beach MP covers an area of approximately 11,000 km<sup>2</sup> (Parks Australia 2022e).

Eighty Mile Beach MP provides habitat for endangered sawfish, and food supplies for the migratory shorebirds that use the adjacent Eighty Mile Beach, one of the most important migratory shorebird sites in Australia (Rogers & Hassell 2017). The Eighty Mile Beach MP also provides important foraging areas adjacent to the nesting areas for marine turtles and includes part of the migratory pathway of the protected humpback whale (DNP 2018b). The reserve provides protection for the shelf, including terrace and banks and shoal habitats, with depths ranging from 15 m to 70 m (Parks Australia 2022e). The sea country of the Nyangumarta, Karajarri and Ngarla people extends into Eighty Mile Beach MP (DNP 2018a; KTLA 2014).

#### 4.3.7 Gascoyne MP

The Gascoyne MP is located in the NWMR and is approximately 1,225 km south-west of WA-285-P and 1,300 km from WA-343-P. The Gascoyne MP covers an area of approximately 82,000 km<sup>2</sup> (Parks Australia 2022f).

The canyons in the Gascoyne MP are believed to be associated with the movement of nutrients from deep water over the Cuvier Abyssal Plain onto the slope where mixing with overlying water layers occurs at the canyon heads. These canyon heads, including that of Cloates Canyon, are sites of species aggregation and are thought to play a significant role in maintaining the ecosystems and biodiversity associated with the adjacent Ningaloo Reef (DNP 2018a). The Gascoyne MP therefore provides connectivity between the inshore waters of the Ningaloo MP (which is outside of the PEZ) and the deeper waters of the area (Parks Australia 2022f). The Gnulli people have responsibilities for sea country in the MP (DNP 2018a).

#### 4.3.8 Joseph Bonaparte Gulf MP

The Joseph Bonaparte Gulf MP is located in the NMR, approximately 500 km east of WA-285-P and 475 km from WA-343-P, on the WA-NT waters border. It occupies an area of approximately 8,600 km<sup>2</sup> with water depths ranging from less than 15 m to 100 m (Parks Australia 2022g; Galaiduk et al, 2018). The Miriuwung, Gajerrong, Doolboong, Wardenybung and Gija and Balangarra people have responsibilities for sea country in the MP (Parks Australia 2022b).

The Joseph Bonaparte Gulf MP experiences a large tidal range (up to 7 m) which, together with a wide intertidal zone create a physically dynamic and turbid environment characterised by a high level of primary productivity (Galaiduk et al, 2018). Key conservation values of the Joseph Bonaparte MP include (Parks Australia 2022g; DNP 2018b):

- important foraging area for threatened and migratory marine turtles (green and olive ridley), and the Australian snubfin dolphin
- examples of the shallow water ecosystems and communities of the NWS Transition Province, the second largest of all the provincial bioregions on the shelf, which

includes the extensive banks that make up the Sahul Shelf, broad shelf terraces and the shallow basin in the Joseph Bonaparte Gulf (including the Cambridge-Bonaparte, Anson Beagle and Bonaparte Gulf mesoscale bioregions).

The carbonate bank and terrace system of the Sahul Shelf KEF described in Section 4.2.6 (enhanced productivity, high biodiversity, and unique seafloor feature) is partly located within this AMP.

#### 4.3.9 Kimberley MP

The Kimberley MP is located approximately 85 km to the south east of WA-285-P and 115 km from WA-343-P. The Kimberley MP occupies an area of approximately 74,500 km<sup>2</sup> (Parks Australia 2022h).

This Kimberley MP provides an important migration pathway and nursery areas for humpback whales, and foraging areas for migratory seabirds, migratory dugongs, dolphins and threatened and migratory marine turtles (DNP 2018a). It is adjacent to important foraging and pupping areas for sawfish and important nesting sites for green turtles (Parks Australia 2022h). The Wunambal Gaambera, Dambimangari, Mayala, Bardi Jawi and the **Nyul Nyul people's sea country extends into the Kimberley MP** (DNP 2018a).

#### 4.3.10 Mermaid Reef MP

The Mermaid Reef MP is located approximately 470 km south-west of WA-285-P and 550 km from WA-343-P. The Mermaid Reef MP **is near the edge of Australia's continental slope**, surrounded by waters that extend to a depth of over 500 m. Mermaid Reef covers an area of approximately 540 km<sup>2</sup> and is the most north-easterly of three reef systems forming the Rowley Shoals (Parks Australia 2022i). Mermaid Reef is totally submerged at high tide and therefore falls under Australian Government jurisdiction. The other two reefs of the Rowley Shoals, Clerke Reef and Imperieuse Reef are managed by the WA Government.

Mermaid Reef (and the other Shoals) supports over 200 species of hard corals and 12 classes of soft corals with coral formations in pristine condition. The shoals are an important area for sharks, including the grey reef shark, the whitetip reef shark and the silvertip whaler; important foraging area for marine turtles; toothed whales; dolphins; tuna and billfish; and an important resting and feeding site for migratory seabirds (Parks Australia 2022i; DNP 2018a). There is limited information about the cultural significance of this MP to indigenous Australians (DNP 2018a).

#### 4.3.11 Montebello MP

The Montebello MP covers an area of approximately 3,400 km<sup>2</sup>. It is located approximately 995 km south-west of WA-285-P and 1,050 km from WA-343-P. The Montebello MP includes part of the migratory pathway for humpback whales; foraging areas for vulnerable and migratory whale sharks; foraging areas adjacent to important nesting sites for marine turtles; and breeding sites of migratory seabirds (Parks Australia 2022j). The Montebello MP includes shallow shelf environments with depths ranging from 15 to 150 m and provides protection for shelf and slope habitats, as well as pinnacle and terrace seafloor features.

The Montebello Islands comprise over 100 islands, the majority of which are rocky. Other marine habitats within the marine park include coral reefs, mangroves, intertidal flats, extensive sheltered lagoonal waters, and shallow algal and seagrass reef platform extending to the south of the Montebello Islands to the Rowley Shelf (DNP 2018a). The complex seabed and island topography create a unique environment where these diverse habitats occur in close proximity to each other.



The **Montebello MP's** natural values 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 (DNP 2018a). There is limited information about the cultural significance of this MP to indigenous Australians (DNP 2018a).

#### 4.3.12 Oceanic Shoals MP

The Oceanic Shoals MP is located approximately 315 km north-east of WA-285-P and 265 km from WA-343-P. The Oceanic Shoals MP occupies an area of approximately 72,000 km<sup>2</sup> with water depths from less than 15 m to 500 m (Parks Australia 2022k). The Oceanic Shoals MP is the largest marine park in the NMR with a portion also overlapping the NWMR. The Oceanic Shoals MP includes important sea country for the Tiwi people (TLC 2021).

The Oceanic Shoals MP is an important resting area for turtles (internesting) for the threatened flatback turtle and olive ridley turtle. It is also an important foraging area for the threatened loggerhead turtle and olive ridley turtle (DNP 2018b).

#### 4.3.13 Roebuck MP

The Roebuck MP is located in the NWMR approximately 435 km south from WA-285-P and 515 km from WA-343-P. The Roebuck MP covers an area of approximately 300 km<sup>2</sup> (Parks Australia 2022l).

It includes part of the migratory pathway for the humpback whales as well as foraging areas adjacent to important nesting sites for flatback turtles, foraging areas for migratory seabirds, and foraging habitat for dugong (DNP 2018b). The Roebuck MP provides protection for shallow shelf habitats ranging in depth from 15 to 70 m and is adjacent to important foraging, nursing and pupping areas for freshwater, green and dwarf sawfish, as well as foraging and calving areas for Australian snubfin, Indo-Pacific humpback and Indo-Pacific bottlenose dolphins (Parks Australia 2022l). Yawuru people have always recognised the waters of Roebuck Bay as nagula (Yawuru sea country) and have customary responsibilities to care for it (DNP 2018a).

### 4.4 State and Territory reserves and MPs

No State or Territory MPs/reserves overlap WA-285-P or WA-343-P (Appendix A.1).

However, the EPBC Act Protected Matters search (Appendix A.1) identified a total of 41 State and Territory reserves within the PEZ as listed below. Unnamed locations were identified using the Collaborative Australian Protected Areas Database (CAPAD 2020):

- Adele Island (WA)
- Balanggarra (WA)
- Bardi Jawi (WA)
- Bedout Island (WA)
- Browse Island (WA)
- Casuarina (NT)
- Channel Point (NT)
- Coulomb Point (WA)
- Dambimangari (WA)
- Djukbinj (NT)
- Garig Gunak Barlu (NT)

- Jinmamkur (WA)
- Jinmamkur Kulja (WA)
- Karajarri (WA)
- Lacepede Islands (WA)
- Lawley River (WA)
- Lesueur Island (WA)
- Low Rocks (WA)
- Marri-Jabin (Thamurrurr – Stage 1) (NT)
- Mitchell River (WA)
- Montebello Islands (WA)
- Niiwalarra Islands (WA)
- Prince Regent (WA)
- Swan Island (WA)
- Tanner Island (WA)
- Unnamed WA28968 identified as Caffarelli Island
- Unnamed WA37168 identified as Lacepede Islands
- Unnamed WA40828 identified as Trimouille Island
- Unnamed WA41080 identified as NW Island (Montebello)
- Unnamed WA41775 identified as Browse Island
- Unnamed WA44669 identified as Tanner Island
- Unnamed WA44672 identified as Bedout Island
- Unnamed WA44673 identified as Adele Island
- Unnamed WA44677 identified as Lesueur Island
- Unnamed WA51162 identified as site on mainland WA north of Broome
- Unnamed WA51932 identified as site on mainland WA near Roebuck Bay
- Unnamed WA52354 identified as site on mainland WA north of Broome
- Unnamed WA53015 identified as site on mainland WA at Eighty-mile Beach
- Unguu
- Yampi
- Yawuru.

Of these reserves, six are Indigenous Protected Areas (IPAs); Balangarra IPA, Bardi Jawi IPA, Dambimangari IPA, Karajarri IPA, Unguu IPA and the Yawuru IPA. The most relevant value and sensitivity within the IPAs is traditional fishing, which is practised within these reserves, and is further discussed in Section 4.11.5.

Further research and investigation of the Collaborative Australian Protected Areas Database (CAPAD 2020) for the State/Territory reserves and MPs listed in Appendix A.1 was undertaken. Where sites were considered not relevant to the PEZ they are not **discussed further in this EP. This is primarily as there are no 'marine' values or sensitivities** which could be impacted by an oil spill, unlike locations where significant turtle and seabird nesting rookeries may be present, and/or associated biologically important areas (BIAs) have been declared.

The relevant State/Territory reserves within the PEZ are described below and displayed on Figure 4-2. Should any new State or Territory MP/reserve management plans come into effect, the impacts of these changes will be assessed in accordance with Section 9.8.1 and Section 9.7 of this EP.

#### 4.4.1 Adele Island Nature Reserve

Adele Island is a declared nature reserve to protect seabird breeding colonies, and is located approximately 155 km south of WA-285-P and 225 km from WA-343-P.

Adele Island is located approximately 97 km north-northwest of Cape Leveque off the central Kimberley coast. The island covers an area of 2.17 km<sup>2</sup>. Its surrounding sand banks sit atop a shallow-water limestone platform, surrounded by an extensive reef system (CCWA 2010).

Adele Island is an important site for breeding seabirds with several species listed under the JAMBA, CAMBA and Republic of Korea–Australia Migratory Birds Agreement (ROKAMBA). There are known breeding colonies for masked booby (*Sula dactylatra*), red-footed booby (*Sula sula*), brown booby (*Sula leucogaster*), pied cormorant (*Phalacrocorax varius*), Australian pelican (*Pelecanus conspicillatus*), greater frigatebird (*Fregata minor*), lesser frigatebird (*Fregata ariel*), Caspian tern and lesser crested tern (CCWA 2010).

The seabird colonies at Adele Island tend to have peak breeding periods from May to July; however, birds may also be present during the non-breeding season (DEWHA 2008). A study undertaken as part of an Applied Research Program (ARP) between INPEX and Shell Australia in the Browse Basin, reported 12 species of seabird were found to breed at Adele Island in the 2014/2015 season (Cannell et al 2015). An additional eight species of seabird were considered non-breeding visitors. Twenty-six migratory shorebird species and three Australian resident shorebird species were also reported as using the Adele Island Nature Reserve (Clarke 2015).

#### 4.4.2 Bedout Island Nature Reserve

**Bedout Island is a Class 'A' nature reserve off the Pilbara coast of WA** approximately 95 km north-east of Port Headland. The island is located approximately 730 km south-west of WA-285-P and 810 km from WA-343-P. It covers an area of approximately 0.4 km<sup>2</sup> and was designated in 1975 (UNEP-WCMC 2022a). Bedout Island is an undulating sand cay recognised as an Important Bird Area (IBA) and provides important habitat for breeding birds including the masked booby (*Sula dactylatra*), white-bellied sea eagle (*Haliaeetus leucogaster*), brown noddy (*Anous stolidus*) and several species of terns (crested, lesser crested, roseate and sooty) (Birdlife International 2022a).

#### 4.4.3 Browse Island Nature Reserve

Browse Island, a **Class 'C' nature reserve**, is the nearest landform to both WA-285-P and WA-343-P (located approximately 19 km south east of WA-285-P and 68 km south of WA-343-P at the closest points). It is an isolated sand cay surrounded by an intertidal reef platform and shallow fringing reef. The purpose of this reserve (#41775) is conservation, navigation (a lighthouse is present on the island), communication, meteorology and survey.

The Browse Island reef complex is an outer shelf, biohermic structure rising from a depth of approximately 200 m. It is a flat-topped, oval-shaped, platform reef with the largest diameter being about 2.2 km. Browse Island is a triangular, vegetated sandy cay, standing just a few metres above high-tide level. It measures approximately 700 m by 400 m.

Browse Island features diverse coral reef fauna with numerous patch reefs and hard coral cover in shallow depths (Heyward et al. 2019). Benthic cover transitions to hard and soft coral communities at deeper (40-60 m) depths around Browse Island before transitioning into filter feeding communities. Browse Island also supports a highly diverse assemblage of tropical reef fish with 385 species identified (Heyward et al. 2019). In contrast to the subtidal habitat surround the island, the intertidal areas (e.g. reef platform/flat) has low species richness of flora and fauna (Olsen et al. 2018). Interestingly, seagrass is completely absent at Browse Island. Rocky shore habitat is represented only by exposed beach rock, and there are no intertidal sand flats.

Green and flatback turtle (*Chelonia mydas* and *Natator depressus*) nesting occurs during the summer months and Browse Island also provides habitat for seabirds and shorebirds. Additionally, Browse Island (inclusive of a 20 km buffer) has been classified as important nesting areas for green turtles from November to March under the Recovery Plan for Marine Turtles in Australia (DEE 2017a). The Scott-Browse green turtles are a distinct genetic unit, nesting only at Scott Reef (Sandy Islet) and Browse Island.

It is not a regionally significant habitat for seabirds, with previous surveys finding a lack of diversity of seabirds breeding there (Clarke 2010). The DCCEEW has not listed Browse Island as a marine avifauna BIA. However, colonies of nesting crested terns (*Thalasseus bergii*) were observed nesting on the north-western side of Browse Island in a colony of approximately 1,000 birds (Olsen et al. 2018). Browse Island has also been recognised, through stakeholder consultation between INPEX and the DBCA, as an important location for seabirds.

#### 4.4.4 Lacepede Islands Nature Reserve

**The Lacepede Islands are a Class 'C' nature reserve located** approximately 120 km north-west of Broome. The islands are located approximately 320 km south-west of WA-285-P and 395 km from WA-343-P. The purpose of the Lacepede Islands Nature Reserve is the conservation of flora and fauna, navigation, communication, meteorology and survey. The Lacepede Islands are a 12 km long chain of four islands known as West Island, Middle Island, Sandy Island and East Island. They are all small, low spits of coarse sand and coral rubble, lying atop a platform coral reef. They are treeless but support low vegetation.

INPEX (2010) identified the Lacepede Islands as the largest green turtle (*Chelonia mydas*) breeding rookery along the Kimberley coastline. The Recovery Plan for Marine Turtles in Australia recognises the Lacepede Islands as a major important nesting area (DEE 2017a) and confirmed as an important rookery based on track counts (Waples et al. 2019). The Recovery Plan provides for a 60 km interesting buffer around the Lacepede Islands for flatback turtle nesting occurring from October to March, with a peak in December and January. A 20 km interesting buffer has also been provided for green turtle nesting, occurring from November to March each year.

The Lacepede Islands support over 1% of the world populations of brown boobies (*Sula leucogaster*) and roseate terns (*Sterna dougallii*). The breeding colony of brown boobies, of up to 18,000 breeding pairs, is possibly the largest in the world (Birdlife International 2022b). Core foraging habitat of the brown boobies was reported to range from 50 km – 90 km from the colony with the furthest recorded as approximately 120 km north-west of the Lacepede Islands (Cannell et al. 2018). Up to 20,000 roseate terns have been recorded there (Birdlife International 2022b). Other birds breeding on the Lacepede Islands include masked boobies, Australian pelicans, lesser frigatebirds, eastern reef egrets, silver gulls, crested, bridled and lesser crested terns, common noddies, and pied and sooty oystercatchers. Visiting waders include grey-tailed tattlers, ruddy turnstones, great knots and greater sand plovers (Birdlife International 2022b).

#### 4.4.5 Yawuru Nagulagun/Roebuck Bay MP

The Roebuck Bay MP includes an internationally significant wetland for migratory shorebirds in Australia (described in Section 4.6.5) and provides habitats to a range of marine fauna as described in Section 4.3.13. Roebuck Bay is located approximately 445 km south-west of WA-285-P and 520 km from WA-343-P. Within the Roebuck Bay MP, a high diversity of infauna is present with the mudflats often covered with a surface film of microscopic microphytobenthos. Studies indicate that microphytobenthos form the basis of food webs for a large variety of organisms, ranging from benthic invertebrates to shorebirds and fish (Bennelongia 2010).

#### 4.4.6 Scott Reef Nature Reserve

Sandy Island is a C class nature reserve (under WA legislation) for the purpose of conservation (No. 42749), declared to Low Water Mark. It has an approximate area of 117 km<sup>2</sup>. This encompasses much of the South Scott lagoon, and the south-western reef flat of North Scott Reef. The remainder of the South Scott Reef lagoon and North Scott Reef are Commonwealth waters and Commonwealth jurisdiction applies. The Scott Reef Nature Reserve values and sensitivities are described in Section 4.2.9.

Scott Reef (including a 20 km buffer) has been classified as habitat critical to the survival of marine turtles in the Recovery Plan for Marine Turtles (2017a).

#### 4.4.7 Lalang-gaddam MP

The Lalang-gaddam MP is located in the Kimberley region of WA and covers an area of approximately 13,085 km<sup>2</sup>. The Lalang-gaddam MP borders the Mayala MP (Section 4.4.9) and Port of Yampi Sound to the west and the North Kimberley MP (Section 4.4.8) to the northeast (DBCA 2022c). The MP aligns with the limit of coastal waters of WA to the northwest, bordering the Kimberley AMP (Section 4.3.9).

In July 2022, four MPs were amalgamated to create the Lalang-gaddam MP these include Lalang-garram/Camden Sound MP, Lalang-garram/Horizontal Falls MP, North Lalang-garram MP and the Maiyalam MP (DBCA 2022c).

The Lalang-gaddam MP is located approximately 170 km from WA-285-P and 210 km from WA-343-P at its closest point and the nearest towns are Derby and Broome on the WA mainland.

The subtidal habitats and communities of the MP include diverse filter-feeding communities of sponges and hard and soft corals. The intertidal and subtidal habitats of the MP also provide critical foraging and nursery areas for a wide range of threatened, protected and culturally important species such as dugong, marine turtles, saltwater crocodiles, dolphins and marine avifauna (Mustoe & Edmunds 2008). In addition, the MP also falls within an area of the Kimberley identified as the principal calving habitat and resting area for the humpback whale (*Megaptera novaeangliae*) (DBCA 2022c).

There are no major developments in the MP and commercial activities are currently limited to tourism, commercial fishing, pearling and aquaculture supported by the pristine, warm tropical waters of the MP (DBCA 2022c).

As traditional owners, the Dambeemangarddee people have a spiritual connection to their country. Special purpose zones (cultural protection) protect areas within their country which are of the greatest cultural significance. While cultural and heritage values apply across the whole of the MP, customary activities are more likely to be carried out in the special purpose zones (cultural protection) compared to other areas in the MP (DBCA 2022c).

#### 4.4.8 North Kimberley MP

The North Kimberley MP is located approximately 145 km south east of WA-285-P and 180 km from WA-343-P. The North Kimberley MP extends all the way from the northern boundary of the Camden Sound MP to the NT border (DPaW 2016a). The North Kimberley MP was declared in December 2016 and is the second largest MP in Australia spanning approximately 18,540 km<sup>2</sup>. This vast area has a complex coastline with many gulfs, headlands, cliff-lined shores and archipelagos. Extensive tidal flats have formed in places, some associated with the mouths of the numerous rivers that drain to the coast. Marine ecosystems include extensive fringing mangrove forests and remote and virtually untouched coral reefs and sponge gardens which in turn support a wide range of marine life (DPaW 2016a).

High densities of dugongs have been recorded in areas of the North Kimberley MP correlating with extensive seagrass habitat (Waples et al. 2019). The North Kimberley MP also supports populations of Manta rays (*Manta* spp.) and six species of threatened marine turtle found in Australia. Cetaceans that are known to utilise the area include humpback whales (*Megaptera novaeangliae*), Indo-Pacific humpback dolphins (*Sousa chinensis*) and snubfin dolphins (*Orcaella heinsohni*) (DPaW 2016a). Saltwater crocodiles (*Crocodylus porosus*), and a variety of fish, sharks, rays and sea snakes also inhabit the waters of the North Kimberley MP. A wide variety of seabirds also utilise the offshore islands and intertidal flats for breeding and foraging. Nature based tourism, commercial and recreational fishing and remote seascapes are also identified as values within the North Kimberley MP management plan (DPaW 2016a).

#### 4.4.9 Mayala MP

The Mayala MP is located approximately 195 km from WA-285-P and 265 km from WA-343-P and covers an area of approximately 3,150 km<sup>2</sup>. The Mayala MP is located in the Buccaneer Archipelago within the Kimberley region of WA, approximately 200 km north-east of Broome. The Mayala MP will come into effect on 1<sup>st</sup> July 2023 and is a **'Class A' MP** providing the highest level of protection (DBCA 2022a).

The Mayala MP is bordered to the west by the Bardi Jawi Gaarra MP and bordered to the east by the Lalang-gaddam MP described in Section 4.4.10 and Section 4.4.7 respectively. The Mayala MP comprises an extensive network of hundreds of islands. No terrestrial areas are included within the Mayala MP but intertidal areas to the high-water mark are included (DBCA 2022a).

The area covered by the Mayala MP is home to a diverse range of marine life. Fringing reefs have formed around the many islands of the Buccaneer Archipelago, withstanding a tidal range in excess of 11 m (Richards et al. 2017; Mayala Inninalang Aboriginal Corporation RNTBC 2019). Mangrove-lined creeks, seagrass meadows and macroalgae communities create important nursery areas for fish, and turtles are regularly seen foraging and nesting in the area. From June to November each year humpback whales (*Megaptera novaeangliae*) migrate to Mayala sea country and beyond to give birth to their young, and dugongs visit the proposed marine park from May to July.

The Mayala MP supports commercial activities such as pearling, aquaculture and commercial fishing. Customary hunting of turtles, dugongs and saltwater crocodiles is permitted by Mayala people in the MP.

The Mayala MP contains many places of cultural and spiritual importance such as the Port of Yampi Sound; and the establishment of the Mayala MP will contribute to the conservation and enhancement of the outstanding cultural, ecological, recreational and commercial values in the area (DBCA 2022a; Mayala Inninalang Aboriginal Corporation RNTBC 2019).

#### 4.4.10 Bardi Jawi Gaarra MP

The Bardi Jawi Gaarra MP is situated in the west Kimberley region of WA surrounding the northern part of the Dampier Peninsula and the western islands of the Buccaneer Archipelago. Located approximately 230 km from WA-285-P and 290 km from WA-343-P, the Bardi Jawi Gaarra MP covers an area of 2,040 km<sup>2</sup>. The Bardi Jawi Gaarra MP will come into effect on 1<sup>st</sup> July 2023 and **will be reserved as a 'Class A' MP providing the highest level of protection** (DBCA 2022b). The Bardi Jawi Gaarra MP extends around the tip of the Dampier Peninsula from Pender Bay on the western side of the Dampier Peninsula to Cunningham Point on the eastern side of the Peninsula. The eastern boundary of the MP borders the Mayala MP and the western boundary extends out to the seaward limit of WA State waters (three nm from the territorial baseline) and includes intertidal areas to the high-water mark. The southern boundary of the Bardi Jawi Gaarra MP is situated approximately 160 km north of Broome (DBCA 2022b).

Similar to the adjacent Mayala MP (Section 4.4.9) the Bardi Jawi Gaarra MP supports a diverse array of plants and animals. Fringing reefs have formed around the many islands of the Buccaneer Archipelago with large tides and complex currents created between the islands. Important nursery habitat is provided through many areas of mangroves, seagrasses and macroalgae communities. Sunday Island located within the Bardi Jawi Gaarra MP is recognised as having particularly extensive and diverse seagrass meadows with eight species being recorded in the raised lagoons of the islands (Kendrick et al. 2017). The high rates of growth and consumption of the seagrass and macroalgae in the lagoons, indicate they are important habitats for marine herbivores such as green turtles and rabbitfish (*Siganus lineatus*).

The warm tropical waters of the Bardi Jawi Gaarra MP also provide optimal conditions for commercial activities such as pearling, aquaculture and commercial fishing.

The Bardi Jawi Gaarra MP also contains many places of cultural and spiritual importance to Bardi and Jawi people. The majority of significant cultural sites and places occur on land, but many have sea-related aspects (DBCA 2022b).

## 4.5 International marine parks

### 4.5.1 Savu Sea Marine National Park

The Savu Sea (Laut Sawu) Marine National Park (MNP) is located within the Lesser Sunda Ecoregion located to the south of the Coral Triangle and covers approximately 35,000 km<sup>2</sup> (MCI 2022; UNEP-WCMC 2022b). It was established in 2009 and has an IUCN Category II status (UNEP-WCMC 2022b). The Savu Sea MNP is split into three management areas; the Pantar Strait Marine Protected Area, the Sumba Strait Marine Area and the Tiroso-Batek Marine Area.

The Savu Sea MNP acts as a marine corridor and migratory pathway for marine fauna and is also an important upwelling zone in the Indo-Pacific region due to the presence of deep ocean trenches (Perdanahardja & Lionata 2017). The Savu Sea MNP area is a known migration route for several cetacean species, including the blue whale and sperm whale (Huffard et al. 2012). Other cetacean species such as pygmy killer whales, melon-head whales, short-finned pilot whales and numerous dolphin species (including Risso's dolphin, Fraser's dolphin, common dolphin, bottlenose dolphin and spinner dolphin) are known to frequent the Savu Sea MNP area (Coral Triangle Atlas 2014). Several species of marine turtle, including the green turtle, hawksbill turtle and leatherback turtle have also been recorded in the Savu Sea MNP area (Huffard et al. 2012).

The Savu Sea MNP provides productive marine habitats that support large populations of fish and artisanal and commercial fisheries. It is estimated that 65% of the East Nusa Tenggara regional fisheries production comes from the Savu Sea (Perdanahardja & Lionata 2017).

## 4.6 Wetlands of conservational significance

Wetlands of conservational significance are presented in Figure 4-8 (Section 4.9.4) and described below.

### 4.6.1 Ashmore Reef National Nature Reserve

In addition to being listed as a National Nature Reserve, Ashmore Reef has been designated a Ramsar site due to the importance of the islands in providing a resting place for migratory shorebirds and supporting large breeding colonies of seabirds (Hale & Butcher 2013). Ashmore Reef is located within the EMBA and is approximately 175 km and 115 km north from WA-285-P and WA-343-P respectively.

The Ashmore Reef National Nature Reserve provides a staging point for many migratory wading birds from October to November and March to April as part of the migration between Australia and the northern hemisphere (Commonwealth of Australia 2002). **Migratory shorebirds use the reserve's islands and sand cays as feeding and resting areas during their migration.** The values of this wetland (habitat which supports migratory birds) are described in Section 4.3.2.

### 4.6.2 Eighty Mile Beach Ramsar site

The Eighty Mile Beach Ramsar site overlaps the EMBA. It comprises a 220 km beach between Port Hedland and Broome with extensive intertidal mudflats and Mandora Salt Marsh, located 40 km east (Hale & Butcher 2009) totalling approximately 1,750 km<sup>2</sup>. Eighty Mile Beach is characterised by extensive mudflats supporting an abundance of macroinvertebrates which provide food for large numbers of shorebirds (DAWE 2022d).



Eighty Mile Beach is one of the most important sites for migratory shorebirds in the East Asian Australasian Flyway, with 42 migratory shorebird species recorded at this location. It is estimated that 500,000 shorebirds use Eighty Mile Beach as a migration terminus annually (Hale and Butcher 2009), and more than 472,000 migratory waders have been counted on the mudflats during the September to November period. The location of Eighty Mile Beach makes it a primary staging area for many migratory shorebirds on their way to and from Alaska and eastern Siberia (Hale & Butcher 2009). Although many birds move further on their journey, others remain at the site for the non-breeding period. It is one of the most important sites in the world for the migration of the critically endangered Great Knot (*Calidris tenuirostris*).

Eighty Mile Beach also supports a high diversity and abundance of wetland birds (Hale & Butcher 2009). This includes 42 species that are listed under international migratory agreements CAMBA (38), JAMBA (38) and ROKAMBA (32) as well as an additional 22 Australian species that are listed under the EPBC Act.

The Mandora Salt Marsh area contains an important and rare group of wetlands (Lake Walyarta and East Lake), including raised peat bogs, a series of small permanent mound springs and the most inland occurrence of mangroves in WA (Hale & Butcher 2009). The Mandora Salt Marsh lakes fill predominantly from rainfall and runoff in the wet season then dry back to clay beds. Flatback turtles, listed as vulnerable under the EPBC Act, regularly nest at scattered locations along Eighty Mile Beach.

#### 4.6.3 Hosnies Spring Ramsar site

The Hosnies Spring Ramsar site is located in the Australian External Territory of Christmas Island in the Indian Ocean and covers an area of approximately 2 km<sup>2</sup>. Christmas Island is approximately 1,950 km from WA-285-P and WA-343-P and the Hosnies Spring Ramsar site overlaps the PEZ.

Hosnies Spring is a small area of shallow freshwater streams and seepages, 20-45 m above sea-level on the shore terrace of the east coast of Christmas Island. The Hosnies Spring Ramsar site consists of a stand of two species of mangroves and also includes surrounding terrestrial areas with rainforest grading to coastal scrub, and an area of shoreline and coral reef (DAWE 2022e).

The site is an example of a specific type of wetland unique to Christmas Island and perhaps unique worldwide. Hosnies Spring is isolated and relatively inaccessible so there is minimal human impact on the area (DAWE 2022e).

#### 4.6.4 Pulu Keeling National Park Ramsar site

The Pulu Keeling National Park Ramsar site is located in the Australian External Territory of Cocos (Keeling) Island in the Indian Ocean and covers an area of approximately 26 km<sup>2</sup>. The Cocos Islands are approximately 2,900 km from WA-285-P and WA-343-P and the Ramsar site overlaps the PEZ.

As described in Section 4.3.5, the Cocos (Keeling) Islands are a group of 27 coral islands forming two atolls 24 km apart. North Keeling Island, with an area of 1.2 km<sup>2</sup>, is part of the Cocos Islands. The Ramsar site includes the marine area surrounding the North Keeling Island along with the terrestrial area of North Keeling Island, matching the boundary of Pulu Keeling National Park.

As an island atoll in its most natural state, North Keeling Island is a significant biological resource and is internationally important for the conservation of biodiversity. The Pulu Keeling National Park Ramsar site is one of the few remaining islands where rats have not yet been introduced and is generally unaffected by feral animals (DAWE 2022f).

The Pulu Keeling National Park Ramsar site is also an internationally significant seabird rookery. Fifteen species of birds recorded on North Keeling Island are listed under international migratory bird agreements and 15 seabird species use the atoll for nesting. The breeding colony of the dominant bird species, the red-footed booby, is one of the largest in the world. It is also the main locality of the endangered, endemic Cocos buff-banded rail. The North Keeling Island is home to a number of crabs and is used by the threatened green turtle and hawksbill turtle. Green turtles also occasionally nest on North Keeling Island. Some 525 fish species are recorded from the Cocos (Keeling) Islands, including the angelfish, which has only been recorded from these islands and Christmas Island. There are no mammals on North Keeling Island, although marine mammals visit the surrounding waters (DAWE 2022f).

Current use of the Pulu Keeling National Park Ramsar site includes scientific research, and tourism activities such as scuba diving, snorkelling and surfing.

#### 4.6.5 Roebuck Bay Ramsar site

The Roebuck Bay Ramsar site is located at Roebuck Bay near Broome in northern WA totalling 341 km<sup>2</sup>. The Ramsar site overlaps the EMBA. Roebuck Bay has a large tidal range which exposes around 160 km<sup>2</sup> of mudflat, covering most of the Ramsar site and is one of only a dozen intertidal flats worldwide where benthic food sources are sufficient to support internationally significant numbers of waders (DAWE 2022g).

The intertidal mud and sand flats support a high abundance of bottom dwelling invertebrates (between 300–500 benthic invertebrate species), which are a key food source for waterbirds (DAWE 2022g). The site is one of the most important migration stopover areas for shorebirds in Australia and globally. For many shorebirds, Roebuck Bay is the first Australian landfall they reach on the East Asian Australasian (EAA) Flyway.

Mangrove swamps line the eastern and southern edges of the site and extend up into the linear tidal creeks (DAWE 2022g). They are important nursery areas for marine fishes and crustaceans, particularly prawns.

Extensive seagrass beds occur in Roebuck Bay, providing an important feeding ground for dugongs and loggerhead and green turtles (Bennelongia 2010). Flatback turtles nest in small numbers, while marine fish (including sawfish) regularly breed in the tidal creeks and mangroves. Dolphins also regularly use the site (DAWE 2022g).

#### 4.6.6 The Dales Ramsar site

Overlapping the PEZ, the Dales Ramsar site is located in the Australian External Territory of Christmas Island and covers an area of approximately 5.8 km<sup>2</sup> and is located on the western side of Christmas Island. The western boundary of the Dales Ramsar site extends 50 m seaward from the low water mark and incorporates part of the coastline (DAWE 2022h).

The Dales Ramsar site has a near-pristine system of seven watercourses collectively known as The Dales. The Dales contain numerous wetland types including surface and karst features, and inland and coastal wetlands (DAWE 2022h). The Dales also supports a number of unique ecological and geomorphic features and a significant number of seabirds including Abbott's booby (*Papasula abbotti*), red-footed booby (*Sula sula*) and the brown booby (*Sula leucogaster*), all of which breed at the site (DAWE 2022h).

Vegetation in The Dales ranges from tall plateau rainforest to lower coastal vegetation. Migratory or vagrant bird species use The Dales as a staging site during migration, and a landfall for vagrant bird species outside their range (DAWE 2022h).

#### 4.6.7 Mermaid Reef Nationally Important Wetland

Although not a Ramsar site, Mermaid Reef is identified as a Nationally Important Wetland in the EPBC Act Protected Matters database search (Appendix A.1) and overlaps the EMBA. The intertidal and subtidal reef system and associated ecological values and sensitivities are described above in Section 4.3.10. It is considered that marine avifauna which roost on the islands within Clerke and Imperieuse Reef may forage at Mermaid Reef.

#### 4.6.8 Finniss Floodplain and Fog Bay Systems Nationally Important Wetland

The Finniss Floodplain and Fog Bay System is an example of a beach-fringed curved bay with continuous intertidal mudflats (DAWE 2022i). The site is a major breeding area for magpie goose (*Anseranas semipalmata*) and during the dry season acts as a refuge area for water birds. It is also a migration stop-over area for shorebirds and a major breeding area for saltwater crocodile (DAWE 2022i). There are extensive paperbark swamps and small areas of samphire near the estuaries and the south-west part of Fog Bay. This site overlaps the EMBA and is recognised as an IBA with the intertidal mudflats of Fog Bay reported to support many species of shorebird and waterbird colonies (Birdlife International 2022c).

#### 4.6.9 Yampi Sound Training Area Nationally Important Wetland

Identified as a Nationally Important Wetland (Appendix A.1), Yampi Sound Training Area is located 140 km north of Derby in the Kimberley Region of WA. The area overlaps the EMBA and covers approximately 5,660 km<sup>2</sup> containing coastal habitats such as mangroves and low-lying coastal flood plains (DAWE 2022j). Several bird species have been recorded in the area including the little tern (*Sternula albifrons*) (DAWE 2022j).

#### 4.6.10 Big Springs Nationally Important Wetland

Located on the mud flats on the eastern shore of King Sound in the West Kimberley, Big Springs is a Nationally Important Wetland (DAWE 2022k). The site overlaps the PEZ and comprises a single large mound spring along with further scattered clusters of outlying, densely vegetated spring islands. The total area of the Big Springs Nationally Important Wetland is approximately 0.8 km<sup>2</sup>. The wetland is a complex system of freshwater seepages and mound springs that support rainforest, surrounded by saline tidal flats devoid of vegetation (DAWE 2022k). Freshwater crocodiles and many bird species have been recorded however, no threatened flora or fauna have been documented.

#### 4.6.11 Bunda Bunda Mound Springs Nationally Important Wetland

Identified as a Nationally Important Wetland that overlaps the EMBA (Appendix A.1), the Bunda-Bunda Mound Springs comprises of one large (approximately 0.2 km<sup>2</sup>) and one small mound area (approximately 0.02 km<sup>2</sup>) located approximately 300 m from the shoreline on tidal mudflats in Carnot Bay on the Kimberley coastline (DAWE 2022k). Bunda-Bunda supports a range of flora and fauna on raised peaty swamps, approximately 2 – 3 m above the surrounding tidal flats, that resemble islands (DAWE 2022k). They provide freshwater for birds during summer and the surrounding area is used for pastoral cattle grazing (DAWE 2022k).

#### 4.6.12 Mitchell River System Nationally Important Wetland

Situated in the Shire of Wyndham in the North Kimberley, the Mitchell River System Nationally Important Wetland comprises the entire Mitchell River drainage system including waterfalls, tidal creeks and flats (DAWE 2022m). It overlaps the EMBA (Appendix A.1). Mangroves present within the site support bats, possums and mangrove forest birds and at least 10 species of freshwater fish occur including the Mitchell Gudgeon (*Kimberleyeleotris hutchins*), a species endemic to the Kimberley and only found in the Mitchell River system (DAWE 2022m).

#### 4.6.13 Prince Regent River System Nationally Important Wetland

The Prince Regent River System comprising of estuary and river catchment in the Prince Regent Nature Reserve is identified as a Nationally Important Wetland (Appendix A.1) located in the North Kimberley region of WA. The site overlaps the EMBA and comprises of large areas of mangrove that provide important habitat for waterbird species, forest bird species typically confined to mangroves and one of the largest populations of saltwater crocodiles in WA (DAWE 2022n).

#### 4.6.14 Willie Creek Nationally Important Wetlands

Identified as a Nationally Important Wetland, the Willie Creek Wetlands are situated on the tidal flats of Willie Creek estuary in the Shire of Broome and cover an area approximately 0.2 km<sup>2</sup> (DAWE 2022o). The site overlaps the EMBA and consists of two spring-fed and tidally inundated wetlands, Nimalaica swamp and a crescent-shaped lake fringed by bare mudflats. Bird and fish breeding habitats support a range of species including migratory seabirds such as the Broad-billed Sandpiper (*Limicola falcinellus*) and barramundi that are reported to grow to maturity in the freshwater streams then move downstream to breed in the estuaries (DAWE 2022o).

#### 4.6.15 Moyle Floodplain and Hyland Bay System Nationally Important Wetland

The Moyle Floodplain and Hyland Bay System is a Nationally Important Wetland located 25 km north-north-east of Wadeye (Port Keats). The site includes the entire floodplain of the Moyle River, from near Peppimenarti and Palumpa communities downstream to the coast and including the adjoining tidal mudflats of (the entire) Hyland Bay (Appendix A.1). The site overlaps the PEZ only and acts as a breeding area for Magpie Goose (*Anseranas semipalmata*), a major dry season refuge for waterbirds (whistling-ducks), a major migration stop-over area for shorebirds, and a major breeding area for Saltwater Crocodile (*Crocodylus porosus*) (DCCEEW 2023i).

#### 4.6.16 De Gray River Nationally Important Wetland

Located 60 km east of Port Hedland the De Gray River is a Nationally Important Wetland that overlaps the PEZ (Appendix A.1). The site comprises of tidal mudflats, mangroves and coastal flats with the system of permanent river pools constituting a significant drought refuge area for freshwater fishes and waterbirds in the bioregion (DCCEEW 2023j).

### 4.7 Threatened Ecological Communities

An ecological community is a naturally occurring group of plants, animals and other organisms that interact within a unique habitat. Ecological communities are listed as threatened if the community is presumed to be totally destroyed or at risk of becoming totally destroyed. There is one threatened ecological community found adjacent to the waters of the PEZ, the monsoon vine thickets on the coastal sand dunes of Dampier Peninsula (Appendix A.1).

Monsoon vine thicket occurs as semi-deciduous and evergreen vine thicket communities on and behind landward slopes of coastal sand dunes on the Dampier Peninsula in the Kimberley Region. This community is closely associated with coastal dunes elsewhere on the Dampier Peninsula and is listed as Endangered under the EPBC Act (DAWE, 2022p).

Although present within the EPBC Act Protected Matters search of the PEZ (including a 1 km buffer) as presented in Appendix A.1, upon further consideration the threatened ecological community is not considered relevant to the PEZ and is therefore not discussed **further in this EP. This is primarily because there are no 'marine' values or sensitivities** which could be impacted by an oil spill. This is supported by the description of the community in the Approved Conservation Advice (DSEWPaC 2013) which states that most patches of the ecological community occupy the leeward slopes and swales and sometimes the exposed crests. Some patches may extend landward into the red-soil pindan plains.

## 4.8 Physical environment

### 4.8.1 Climate

#### Air temperature

Air temperatures recorded at Browse Island, the closest Bureau of Meteorology (BOM) climatological station to WA-285-P and WA-343-P, shows a maximum temperature of 33.3 degrees Celsius (°C) and a minimum of 21.6 °C (BOM 2022). Air temperatures in the Browse Basin remain warm throughout the year with means and maxima ranging from 26–30 °C and 32–35 °C, respectively (INPEX 2010).

#### Winds

The climate of northern Australia shows two distinct seasons: winter, from April to September; and summer, from October to March. There are rapid transitional periods between the two main seasons, generally in April and September/October (RPS MetOcean Pty Ltd 2011).

The winter season is characterised by steady north-east to south-east winds of 5 metres per second (m/s) to 12 m/s, driven by south-east trade winds. The prevailing south-east winds bring predominantly fine conditions throughout the north of Australia. The summer season is the period of the predominant north-west monsoon. It is characterised by north-west to south-west winds of 5 m/s for periods of five to 10 days with surges in airflow of 8 m/s to 12 m/s for periods of one to three days.

During the summer season, the weather in northern Australia is largely determined by the position of the monsoon trough, which can be in either an active or an inactive phase. The active phase is usually associated with broad areas of cloud and rain, with sustained moderate to fresh north-westerly winds on the north side of the trough. Widespread heavy rainfall can result if the trough is close to, or over, land. An inactive phase occurs when the monsoon trough is temporarily weakened or retreats north of Australia. It is characterised by light winds, isolated showers, and thunderstorm activity, sometimes with gusty squall lines.

Tropical cyclones can also develop off the coast in the summer season, usually forming within an active monsoon trough. Heavy rain and strong winds, sometimes of destructive strength, can be experienced along the coast within several hundred km of the centre of the cyclone. The Browse Basin is prone to tropical cyclones, mostly during the tropical wet season from December to March (INPEX 2010). Under extreme cyclone conditions, winds can reach 83 m/s.

## Rainfall

The region has a pronounced monsoon season between December and March, which brings heavy rainfall. Heaviest rainfall is typically associated with tropical cyclones.

Troughton Island located on the Kimberley coastline is the closest location to the permit areas with a historical rainfall record. Historical rainfall data shows the highest maximum (269.8 mm) and mean (>100 mm) monthly rainfalls occur from December to March (BOM 2022). Rainfall intensity at the Ichthys Field is expected to range from approximately 215 mm per hour (mm/h) to 460 mm/h over a five minute interval (based on 1-year and 200-year average recurrence intervals) (AMEC Ltd. 2011).

## Air quality

There is currently no air quality data recorded within the vicinity of the permit areas, WA-285-P or WA-343-P. However, given the distance from land, air quality is expected to be relatively high. Potential sources of air pollution associated with anthropogenic influences are expected to be emissions generated by shipping, and oil and gas activities, and therefore considered to be localised in relation to the regional setting.

### 4.8.2 Oceanography

#### Currents

Broad-scale oceanography in the north-west Australian offshore area is complex, with major surface currents influencing the region, including the Indonesian Throughflow, the Leeuwin Current, the South Equatorial Current, and the Eastern Gyral Current (Figure 4-3). The Indonesian Throughflow current is generally strongest during the south-east monsoon from May to September (Qiu et al. 1999). The Indonesian Throughflow is a key link in the global exchange of water and heat between ocean basins. It brings warm, low-nutrient, low-salinity water from the western Pacific Ocean, through the Indonesian archipelago, to the Indian Ocean. It is the primary driver of the oceanographic and ecological processes in the region (DSEWPac 2012a).

Offshore regions with water depths exceeding 100-200 m tend to experience significant large-scale drift currents. These drift currents tend to be stronger than tidal currents. Drift currents within nearby WA-50-L are expected to be directed towards the south-west during summer and winter. During the transitional period, drift currents will be variable, predominantly switching between the south-west and north-east directions. Typical drift current speeds range from zero to 0.3 m/s throughout the year (APASA 2015). Tidal current data, also from within WA-50-L, indicate that tidal currents are likely to be directed along a north-west to south-east axis throughout the year. Typical tidal current speeds are in the range of 0.2–0.6 m/s (APASA 2015). Wind shear at the surface also generates local-scale currents.

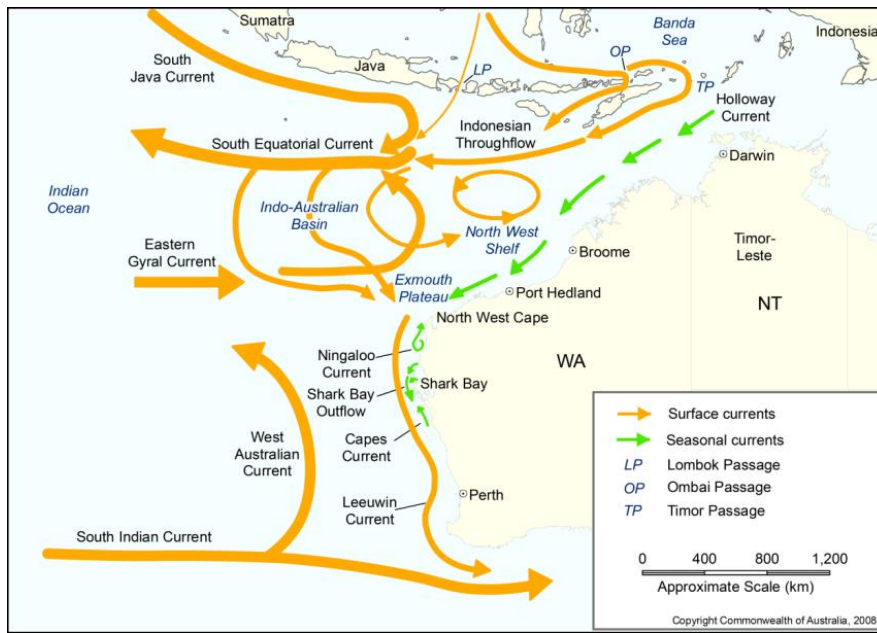


Figure 4-3: Surface currents for Western Australian waters

Tides

Tides within the permit areas are semidiurnal, with two daily high tides and two daily low tides (McLoughlin et al. 1988). Both the semidiurnal and diurnal tides appear to travel north-eastwards in the deep water leading to the Timor Trough before propagation eastwards and southwards across the wide continental shelf. The NWMR experiences some of the largest tides along a coastline adjoining any open ocean in the world.

Waves

Summertime tropical cyclones generate waves propagating radially out from the storm centre. Depending upon the storm size, intensity, relative location and forward speed, tropical cyclones may generate swell with periods of 6–10 seconds (s) from any direction and with wave heights of 0.5–9.0 m. During severe tropical cyclones, which can generate major short-term fluctuations in current patterns and coastal sea levels (Fandry & Steedman 1994; Hearn & Holloway 1990), current speeds may reach 1.0 m/s and occasionally exceed 2.0 m/s in the near-surface water layer. Such events are likely to have significant impacts on sediment distributions and other aspects of the benthic habitat.

4.8.3 Bathymetry and seabed habitats

Water depths within WA-285-P and WA-343-P are approximately 290 m and 350 m respectively. Studies using sub-bottom profiling, multibeam echo-sounder and sidescan sonar have been undertaken by INPEX at the Ichthys Field which lies adjacent to the northern boundary of WA-285-P and is approximately 50 km south of WA-343-P. Studies by INPEX were also undertaken in areas close to Heywood and Echuca shoals and south-east towards the Kimberley coast (INPEX 2010). These studies indicated that seabed topography is relatively flat and featureless, and the geology is generally homogeneous through the region.

Soft substrates in the Browse Basin and continental shelf are typical of deep-sea, outer continental shelf and slope benthic habitats found along the length of the NWS (RPS 2007). This habitat generally supports a diverse infauna dominated by polychaetes and crustaceans typical of the broader region and this is reflected in survey results which indicate the epibenthic fauna is diverse but sparsely distributed (RPS 2008). Deep-sea infaunal assemblages of this kind are very poorly studied on the NWS but are likely to be widely distributed in the region (INPEX 2010).

Areas of mud and fine sand are widespread on the outer shelf and slope in the Browse Basin indicating that it is a depositional area where fine sediments and detritus accumulate. The distribution of seabed type shows some correlation with water depth, with sediments becoming coarser as water depth increases (INPEX 2010). However, there are also large sand waves in parts of the basin, showing that, locally, there are strong seabed currents. The sand waves are likely to move in response to seasonal changes in the currents and the substrate instability is expected to limit the development of infaunal communities in this habitat.

During surveys of the Ichthys Field, no obstructions were noted on the seafloor and no features such as boulders, reef pinnacles or outcropping hard layers were identified (INPEX 2010; Fugro Survey Pty Ltd 2005). In general, the seabed sediments grade from soft featureless sandy silts to gravelly sand suggestive of strong near-seabed currents and mobile sediments that do not favour the development of diverse epibenthic communities.

Based on the data from the Ichthys Field and surrounding areas in proximity to WA-285-P and WA-343-P, the seabed is suggestive of strong near-seabed currents and mobile sediments that do not favour the development of diverse epibenthic communities.

#### 4.8.4 Water quality

Offshore surface waters are typically oligotrophic. This has been confirmed by studies recording low nitrate concentrations and low phytoplankton abundance (Hallegraeff 1995). In general, the region experiences an influx of comparatively nutrient-rich waters at depth in summer and a variety of processes, such as tidal currents, internal waves and cyclone mixing, are known to carry these nutrients into the bottom waters of the shelf (Hallegraeff 1995).

Inshore coastal waters tend to be more turbid than offshore open ocean waters due to suspension of sediments by wave action and sediment laden runoff from the land. Higher total suspended solids (TSS) concentrations tend to occur during spring tide conditions due to stronger tidal currents and meteorological perturbations, such as periods of strong winds.

Water quality has been measured by INPEX during numerous surveys in order to describe the natural water quality conditions in the Ichthys Field and in surrounding areas. Given the proximity of WA-285-P and WA-343-P to the Ichthys Field, the results of these studies are considered to be representative of the conditions expected within the permit areas. An overview of the water quality studies undertaken are as follows:

- Water quality sampling was conducted at 27 offshore locations near the Ichthys Field, Echuca Shoal and their surrounds between March 2005 to June 2007 as a part of the INPEX Ichthys EIS studies (INPEX 2010).
- Near-seabed temperature and salinity profiles were obtained along the proposed pipeline route from the Ichthys Field to Darwin Harbour during geophysical and geotechnical surveys conducted between August and October 2008 (Neptune Geomatics 2009).



- ARP studies between INPEX and Shell in the Browse Basin included 66 water quality profiles and more than 1,300 water samples collected from 56 locations around the Ichthys Field in May 2015. Sampling locations were based on a gradient design away from a central point in the Ichthys Field and also included increased sampling around Browse Island, Echuca and Heywood shoals. Samples were analysed for metals and hydrocarbons (Ross et al. 2017). In addition, ad hoc water quality samples have also been collected from sampling locations during other ARP field surveys to increase the dataset and knowledge.
- Water quality monitoring in the receiving environment was undertaken in 2019, as part of the INPEX offshore facility liquid effluent management plan, to detect changes in water quality attributable to liquid discharges from the Ichthys Central Processing Facility (CPF) and floating production storage and offloading (FPSO) facility located in nearby WA-50-L. Samples were collected from 31 locations based on the modelled mixing zones for the CPF and FPSO and included fixed sampling locations and sampling sites along the prevailing currents (Jacobs 2019).

The results of these studies, as relevant to this EP, are summarised in Table 4-2.

Table 4-2: Summary of water quality parameters in the vicinity of WA-285-P & WA-343-P

Parameter	Description
Surface-water temperature	<p>The surface waters of the region are tropical year-round, with surface temperatures of ~26 °C in summer and ~22 °C in winter (DSEWPac 2012a). The baseline monitoring in the Ichthys Field area recorded surface water temperatures of ~30 °C in summer (March) and ~26–27 °C in winter (July) (INPEX 2010).</p> <p>Offshore waters in the region are typified by thermal stratification, with the start of the thermocline generally around 60 m below sea surface (but ranging from 30-80 m) (Ross et al 2017). Temperature decays rapidly through the water column to 14 °C at approximately 200 m and then decays more slowly to a minimum of circa 8 °C recorded at the deepest sites (Ross et al. 2017).</p>
Salinity	<p>Salinity was spatially and temporally consistent at 34 to 35 parts per thousand (ppt) across all sampling sites and can reasonably be expected to be similar within the wider area, given the distance from major freshwater discharges (INPEX 2010).</p> <p>Sampling undertaken in 2019, found the vertical salinity profiles of various sites sampled within and around the CPF and FPSO in WA-50-L were similar and did not change markedly from surface to bottom. Generally, salinity was approximately 34.4 ppt at the surface and then increased slightly at the seabed 34.5 ppt (Jacobs 2019).</p>
Dissolved oxygen	<p>Dissolved oxygen concentrations in the Ichthys Field mirrored water temperatures, with concentrations varying considerably between the surface and subsurface layers. The surface mixed layer was generally well oxygenated throughout; however, below the thermocline (starting at approximately 60 m through to 200 m water depth), the concentration of dissolved oxygen decreased consistently with depth (RPS 2007; Ross et al. 2017; Jacobs 2019). Dissolved oxygen concentrations were recorded at constant levels of 6.0 to 6.5 ppm at or above the thermocline in both summer and winter. In the cooler waters below the thermocline, dissolved oxygen decreased with increasing depth, with levels as low as 4.5 to 5.0 ppm recorded at a depth of 93 m and 3 ppm at a depth of 250 m (INPEX 2010). This indicates that the strong thermal stratification at the offshore locations results in limited oxygen replenishment of subsurface waters due to the lack of regular mixing between water layers (RPS 2007).</p>

Parameter	Description
pH	<p>The average pH of waters was measured at approximately 8.4 (RPS 2007), which is slightly higher (more alkaline) than normally encountered in the marine environment and is above the default criteria given in the Australian and New Zealand guidelines for fresh and marine water quality (ANZG 2018).</p> <p>Sampling undertaken in 2019 reported, the pH of the surface water for sites within and around the CPF and FPSO in WA-50-L ranged from 8.12 to 8.20 (Jacobs 2019). Further, the shape of the profiles for pH and dissolved oxygen were similar, with a decrease in pH occurring near the top of the thermocline, due to oxidation of organic matter.</p>
Turbidity and light attenuation	<p>Turbidity is generally higher in the shallow waters of the continental shelf and towards the base of many of the deeper water column profiles. Sampling undertaken in 2019, found turbidity was very low throughout the majority of the water column at each site sampled. At approximately 20–50 m above the seabed the turbidity was slightly elevated and increased with depth (Jacobs 2019). This has been attributed to the action of currents passing over the seabed causing some turbulence and resuspension of sediments. The re-suspension of materials from the seafloor includes organic material, which could comprise a pathway for hydrocarbon materials to become incorporated into sediments.</p> <p>Light attenuation coefficients calculated from photosynthetically active radiation measurements ranged from 0.026 to 0.043 <math>\mu\text{Mol}/\text{m}^2/\text{s}</math> in October and December 2006, and 0.048 to 1.09 <math>\mu\text{Mol}/\text{m}^2/\text{s}</math> in June 2007. These were observed to be <b>consistent with reported "typical" levels for the region (RPS 2007).</b></p>
Petroleum hydrocarbons	<p>Baseline sampling has indicated low levels of naturally occurring hydrocarbons released by organic matter decay or higher trophic level organisms. Shallow water sites showed a constant hydrocarbon concentration through the profile. Deep water sites showed a low and constant concentration above the thermocline, with a peak of <b>0.2-0.25 <math>\mu\text{g}/\text{L}</math> at the thermocline before slowly diminishing</b> (Ross et al. 2017).</p>
Radionuclides	<p>Water-column sampling for radionuclides in the Ichthys Field area indicated concentrations of radium-226 ranging from below lower limits of reporting (LLR) to 0.034 (<math>\pm 0.012</math>) becquerels per litre (Bq/L) and concentrations of radium-228 ranging from below LLR to 0.167 (<math>\pm 0.128</math>) Bq/L. With the exception of one mid-depth sample, all samples returned gross alpha-particle and gross beta-particle radiation levels below the Australian Drinking Water Guidelines screening criterion of 0.5 Bq/L provided by the National Health and Medical Research Council (NHMRC) and the Natural Resource Management Ministerial Council (NRMMC).</p>
Metals	<p>Total metal concentrations in the offshore waters sampled were below the 99% species protection level for marine waters with the exception of zinc and cobalt at one site each. The reason for these two slightly elevated readings is unknown (INPEX 2010).</p> <p>Ultra-trace-level analysis methods were used to assess metal concentrations in surface waters because ANZG (2018) guideline trigger values at the 99% species protection level are lower than the limits of standard laboratory methods. Mercury was the only metal not detected above the LLR, while cobalt was marginally above the LLR at only one site. Concentrations of arsenic, nickel, chromium and zinc were consistent across all sites, but the concentrations of cadmium, copper and lead showed greater variability (INPEX 2010).</p>

Parameter	Description
	Sampling undertaken in 2019, found copper concentrations above 99% species protection levels were recorded at various sites including sites up to 10 km from the FPSO in WA-50-L (Jacobs 2019). There were no exceedances of the copper guideline value for sites closest to the discharge for either fixed or mobile sites and all sites with exceedances were different distances and directions from the discharge. Chromium was detected in water samples collected from both fixed and mobile sites the edge of the CPF and FPSO mixing zones or beyond. All chromium concentrations were below the laboratory limits of reporting (LOR) (Jacobs 2019).

Water quality in the Indonesian waters of the PEZ is unknown. However, the Asian Development Bank (2014) reported that approximately 40% of domestic sewage in Indonesia is discharged directly or indirectly via rivers and into the sea without proper treatment. The high organic and nutrient content of untreated sewage can lead to eutrophication or excessive nutrient enrichment, which triggers the growth of phytoplankton in the form of harmful algal blooms, or red tides, in many places in Indonesia.

#### 4.8.5 Sediment quality

Similar to water quality, marine sediments have been sampled during numerous surveys in order to characterise the marine sediments in the Ichthys Field and surrounding areas (URS 2009). Overviews of the studies are listed below, with the results as relevant to this EP summarised in Table 4-3:

- Sampling and characterisation of marine sediments in the Ichthys development area was conducted at 10 sites in September 2005 and May 2007. This included five sites within 20 km of the Ichthys FPSO location and another five sites between 36 km and 134 km away. A further 10 sites were also sampled for particle size distribution (PSD) between 24 km and 66 km of the FPSO location in WA-50-L.
- Seabed sediment sampling along the proposed pipeline route from the Ichthys Field to Darwin Harbour was conducted at approximately 10 km intervals during geophysical and geotechnical surveys between August and October 2008.
- ARP studies included 133 sediment samples at 56 locations collected around the Ichthys Field in May 2015. Sampling locations were based on a gradient design away from a central point in the Ichthys Field and also included increased sampling around Browse Island, Echuca and Heywood shoals. Samples were analysed for metals and hydrocarbons (Ross et al. 2017). In addition, ad hoc sediment samples have also been collected from sampling locations during other ARP field surveys to increase the dataset and knowledge.
- Sediment quality monitoring in the receiving environment was undertaken in 2019 to detect changes in surficial sediment quality attributable to liquid discharges from the CPF and FPSO located in nearby WA-50-L. Sediment samples were collected from 18 fixed sampling locations based on a gradient design radiating out from the FPSO to approximately 10 km as the FPSO represents a point source discharge.

Table 4-3: Summary of sediment quality parameters in the vicinity of WA-285-P &amp; WA-343-P

Parameter	Description
Particle size distribution	<p>The seabed in offshore locations on the continental shelf is known to consist of generally flat, relatively featureless plains characterised by soft sandy-silt marine sediments that are easily resuspended. Similarly, the substrate of the Scott Reef – Rowley Shoals Platform, in water depths of 200–600 m, is considered to be a depositional area with predominantly fine and muddy sediments (INPEX 2010).</p> <p>The PSD of sediment at sites located within the Ichthys Field was primarily sand, with some silts.</p>
Petroleum hydrocarbons	<p>Concentrations of benzene, toluene, ethylbenzene and xylene (BTEX) and polycyclic aromatic hydrocarbons (PAH) compounds in sediments in the vicinity of the sampling sites were very low (Ross et al. 2017, RPS 2007). The components of the more prevalent alkane compounds found indicated that the concentrations observed were likely to have originated from biogenic sources (Ross et al. 2017).</p> <p>Sampling undertaken in 2019 at fixed and mobile sites around the FPSO (out to 10 km) found all hydrocarbons, BTEX and speciated phenols were below the laboratory limits of reporting and guideline values (Jacobs 2019).</p>
Radionuclides	<p>Naturally occurring radioactive materials (NORMs) for the majority of results were below or close to LLR. Radium-226 was detected at one site but all other samples were below LLR for each radium isotope. The concentration of uranium and thorium was consistent across all sites (RPS 2007).</p> <p>Sampling undertaken in 2019 found NORMs were below background concentrations at all sampling sites (fixed and mobile) (Jacobs 2019).</p>
Metals	<p>Concentrations of all metals were consistent across the sampling sites and well below the interim sediment quality guidelines low screening level (ANZG 2018), with the majority also below their respective LLR (RPS 2007).</p> <p>Organometallics (i.e. tributyltin) were below ANZG (2018) guidelines and lower than the LLR at all sampling locations.</p> <p>Sampling undertaken in 2019 at fixed sampling sites at the FPSO, found all metals/metalloids were below the guideline values indicating no significant change to sediment quality has occurred as a result of the FPSO discharges in WA-50-L (Jacobs 2019).</p>

#### 4.8.6 Underwater noise

The Centre for Marine Science and Technology at Curtin University undertook a study on behalf of INPEX from September 2006 to August 2008 to assess ambient biological and anthropogenic sea noise sources in the Browse Basin. Ambient noise in the Ichthys Field was measured using a sea noise logger deployed at a depth of 240 m on the seabed 45 km north-west of Browse Island. The monitoring revealed an average ambient noise level of 90 dB re 1  $\mu$ Pa under low sea states, with inputs of low frequency energy from the Indian Ocean (INPEX 2010).

Biological noise sources recorded in the Ichthys Field included regular fish choruses (one at >1 kHz and another at around 200 Hz) and several whale calls from humpback whales, pygmy blue whales, minke whales and other unidentified species. Results from this survey are considered to be indicative of typical underwater noise levels and frequencies within the NMR and NWMR bioregions as a whole.

## 4.9 Biological environment

### 4.9.1 Planktonic communities

Plankton communities comprise phytoplankton and zooplankton, including fish eggs and larvae. Phytoplankton and zooplankton are a source of primary and secondary productivity, and key food sources for other organisms in the oceans (Brewer et al. 2007). Eggs and larvae may be dispersed throughout the water column and throughout the region, playing an important role in species recruitment.

Plankton abundance and distribution is patchy, dynamic and strongly linked to localised and seasonal productivity (Evans et al. 2016). The mixing of warm surface waters with deeper, more nutrient-rich waters (i.e. areas of upwelling) generates phytoplankton production and zooplankton blooms. In the offshore waters of north-western Australia, **productivity typically follows a 'boom and bust' cycle. Productivity booms are thought to** be triggered by seasonal changes to physical drivers or episodic events, which result in rapid increases in primary production over short periods, followed by extended periods of lower productivity.

The Indonesian Throughflow has an important effect on biological productivity in the northern areas of Australia and Indonesia. 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 (generally 70–100 m depth). When the Indonesian Throughflow is weaker, the thermocline lifts, and brings deeper, more nutrient-rich waters into the photic zone, which results in conditions favourable to increased productivity. Consequently, plankton populations have a high degree of temporal and spatial variability. In tropical regions, higher plankton concentrations generally occur during the winter months (June to August).

In waters surrounding Indonesia, seasonal peaks in phytoplankton biomass are linked to monsoon related changes in wind. When the winds reverse direction (offshore vs. onshore), nutrient concentrations decrease/increase because of the suppression/enhancement of upwelling (NASA 2010). Annual variability of phytoplankton productivity in waters surrounding Indonesia is heavily influenced by the El Niño-Southern Oscillation climate pattern (NASA 2010). For example, phytoplankton productivity around Indonesia increases during El Niño events.

The waters of north-western Australia, encompassing WA-285-P and WA-343-P, are generally considered to be of low productivity in comparison with other global oceanic systems. This is largely due to the relatively low-nutrient, shallow water environment. Planktonic community densities recorded in the Ichthys Field are considered to be very sparse and are indicative of offshore waters where no significant nutrient sources exist. The most common plankton classes recorded from the sampling of the Ichthys Field development area were the Prasinophyceae (68%), followed by the Bacillariophyceae (30%), the Dinophyceae (1%) and the Cryptophyceae (<1%), all of which are common throughout the region (INPEX 2010).

### 4.9.2 Benthic communities

#### Banks and shoals

A number of banks, shoals and reefs exist within the Browse Basin (Figure 4-2). The closest to WA-285-P and WA-343-P are Echuca and Heywood shoals. They are located approximately 79 km and 96 km away from WA-285-P respectively: and approximately 62 km and 75 km away from WA-343-P respectively. Browse Island is the nearest intertidal habitat which is located approximately 19 km and 68 km away from WA-285-P and WA-343-P respectively.

Other representative banks and shoals within the PEZ, with approximate distances to each permit area include:

- Vulcan Shoals (185 km WA-285-P; 105 km WA-343-P)
- Eugene McDermott Shoals (195 km WA-258-P; 125 km WA-343-P)
- Barracouta Shoals (190 km WA-285-P; 110 km WA-343-P)
- Woodbine Bank (190 km WA-285-P; 110 km WA-343-P)
- Fantome Shoals (250 km WA-285-P; 200 km WA-343-P)
- Penguin Shoal (280 km WA-285-P; 280 km WA-343-P)
- Gale Bank (350 km WA-285-P; 300 km WA-343-P)
- Van Cloon Shoals (390 km WA-285-P; 335 km WA-343-P)
- Rowley Shoals (490 km WA-285-P; 610 km WA-343-P)
- Sunrise Bank (620 km WA-285-P; 660 km WA-343-P)
- Flat Top Bank (680 km WA-285-P; 650 km WA-343-P)
- Glomar Shoals (900 km WA-285-P; 985 km WA-343-P).

The shoals and banks within the PEZ are characterised by abrupt bathymetry, rising steeply from the surrounding shelf to horizontal plateau areas typically 20–30 m deep (AIMS 2012). Substrate types tend to differ from patches of coarse sand, to extensive fields of rubble and rocks, limited areas of consolidated reef and occasional isolated rock or live coral outcrops.

A detailed study on Echuca and Heywood Shoals, the two closest submerged shoals to the permit areas, was undertaken as part of the Shell/INPEX ARP comprising of annual field surveys conducted from 2014 to 2016 (Heyward et al. 2018). The focus of the study was the shoal benthic habitats and associated fish communities predominantly on the plateau areas, present as horizontal or gently sloping seabed in depths of 15 m to 30 m. The outcome of the study by Heyward et al. (2018) **reported that Echuca Shoal's oval shaped and slightly shallower 11 km<sup>2</sup> plateau had less unconsolidated substrate, such as sand or rubble, than Heywood Shoal's plateau of approximately 31 km<sup>2</sup>.** The benthic habitats and fish communities were similar, with many species in common. All epibenthic organisms on both shoals appeared normal and healthy throughout the study. Fish abundance and diversity was high but varied over time and between the shoals in a consistent manner. Species richness, abundance and fish community structure were influenced mainly by depth and the abundance of epibenthos, especially hard coral (Heyward et al. 2018). These results are comparable with other shoals throughout the region.

The submerged shoals within the PEZ can support diverse tropical ecosystems, including phototrophic benthos typical of tropical coral reefs. The shoals support a diverse biota, including algae, reef-building corals, hard corals and filter-feeders. In general, the flora and faunal assemblages are typical of the oceanic reefs of the Indo–West Pacific region (INPEX 2010), with many of the species in common with those found at the Ashmore, Cartier and Scott reef complexes. The shoals and banks of the area may therefore act as **'stepping stones' for enhanced biological connectivity between the reef systems of the region.** Shoal and bank habitats are thought to provide additional regional habitat for marine fauna, including sharks and sea snakes (AIMS 2012).

The community structure of the banks and shoals is likely to be influenced by a number of processes, including disturbance resulting from storms and cyclones, and localised recruitment due to the limited larval dispersal of some invertebrate species (AIMS 2012). It is unknown how interconnected the individual banks and shoals are in regard to larval recruitment. The majority lie in the path of a south-westerly flowing current originating in the Indonesian Throughflow. However, seasonal reversals of current flow suggest larval recruitment can be supplied from outside this process. Seasonal current patterns, local effects within ocean currents (e.g. reversal of current direction against prevailing winds) and species lifecycle characteristics are all likely to exert an influence over the larval recruitment (and hence biodiversity) of the banks and shoals (INPEX 2010).

### Coral reefs

Coral reefs within the NWMR region can be categorised into three general groups: fringing reefs, large platform reefs, and intertidal reefs. Corals are significant benthic primary producers that play a key ecosystem role in many reef environments and have an iconic status in the environments where they occur.

Coral reefs considered to have significant value within the PEZ include:

- Ashmore Reef (175 km WA-285-P; 115 km WA-343-P)
- Cartier Island (145 km WA-285-P; 80 km WA-343-P)
- Seringapatam Reef (110 km WA-285-P; 125 km WA-343-P)
- Scott Reef (105 km WA-285-P; 135 km WA-343-P)
- Hibernia Reef (210 km WA-285-P; 150 km WA-343-P)
- Rowley Shoals (490 km WA-285-P; 610 km WA-343-P)
- Mermaid Reef (470 km WA-285-P; 550 km WA-343-P).

These reefs, in particular Ashmore Reef, are recognised as having the highest richness and diversity of coral species in Western Australia (Mustoe & Edmunds 2008, cited in Department of State Development 2010). The Rowley Shoals and Scott Reef also support very high coral species diversity, as discussed in Section 4.2 and Section 4.3. The intertidal reefs surrounding the outer islands of the Bonaparte Archipelago also exhibit very high coral species diversity (INPEX 2010). Coral reefs associated with Browse Island (the nearest coral reef to the permit areas) are discussed in Section 4.4.3.

Fringing coral reefs around Christmas Island are relatively simple with 88 coral species previously identified which are identified to support and over 600 fish species (DNP 2012; Hobbs et al. 2014). The Cocos (Keeling) Islands also have a wide variety of corals species (Geoscience Australia 2022c).

Indonesia has the largest coral reef area in Southeast Asia and estimates of the extent of these coral reefs vary, but they likely total about 51,000 km<sup>2</sup> (ABD 2014). More than 590 species of corals have been identified in Indonesian waters. The Lesser Sunda Ecoregion which intersects the PEZ is considered important for coral endemism, particularly the areas of Bali-Lombok, Komodo and East Flores. Fringing coral reefs tend to be less developed on the southern, more exposed shorelines (Wilson et al. 2011). Coral species composition is influenced by regional and local scale seasonal upwellings that typically occur from April to May each year on the southern side of the Indonesian islands (DeVantier et al. 2008).

Observations throughout the world indicate that coral spawning on most reefs extends over a few months during the spawning period, typically between late spring and autumn (Stoddart & Gilmour 2005, cited in INPEX 2010). Spawning of corals in the NT Aquarium has been observed around the full moon period in October and November (TWP 2006, cited in INPEX 2010). In northern Queensland, captive corals have been observed to spawn at the same time as those in the adjacent waters. Coral spawning has been observed at Scott Reef during summer/autumn (March/April; main spawning event) and spring (October/November) (Gilmour et al. 2009). This has been confirmed by the Australian Institute of Marine Science (AIMS) research at Scott Reef, which estimates that 60–75% of community reproductive output occurs in autumn, 15–25% in spring, and 5–15% in summer, with comparatively little reproductive output during winter (Gilmour et al. 2013). Research into coral larval dispersal (Gilmour et al. 2009, 2010, 2011; Underwood et al. 2009, 2017; Cook et al. 2017; Waples et al. 2019) has indicated that dispersal and recruitment is predominately local and limited to within a few kilometres to a few tens of kilometres from natal reef patches.

### Seagrass

There is no seagrass within WA-285-P or WA-343-P due to water depth (approximately 290 and 350 m) and lack of suitable habitat.

Seagrasses occur in the PEZ with the closest seagrasses to the permit areas located at Ashmore Reef, approximately 175 km north of WA-285-P and 115 km north of WA-343-P, where a high coverage of seagrass supports a small dugong population (Whiting & Guinea 2005). Other locations include the mainland coastline of the NT and WA and within the protected coastal areas of islands, including the Tiwi Islands, Vernon Islands, outer Darwin Harbour and in the waters surrounding of the Van Diemen Gulf adjacent to Arnhem Land (Roelofs et al. 2005).

The largest known seagrass locations for the NWMR have been reported from around the Buccaneer Archipelago located north of the Dampier Peninsula (Wells et al. 1995) located approximately 215 km south of WA-285-P and 295 km south of WA-343-P. Other important areas include the Lacepede Islands, Browse Island, Scott Reef, Ashmore Island and Cartier Island. Coastal shallow-water seagrass habitats are generally rare in the region, accounting for only 11.5 km or 0.2% of the total coastline surveyed by Duke et al. (2010). The regionally dominant genera in Australia are *Halophila* and *Halodule*.

The Cocos (Keeling) Islands have an extensive lagoon with more than 26 km<sup>2</sup> of shallow seagrass meadows that include *Thalassia* spp. and *Thalassodendron* spp. (Hobbs et al. 2007). Due to a lack of lagoonal habitats, no seagrass habitats have been recorded at Christmas Island (Hobbs et al. 2014).

Seagrass habitats are widely distributed across the Lesser Sunda Ecoregion and within Indonesian waters the lower intertidal and upper subtidal zones are considered important areas for the growth of seagrass (Hutumo & Moosa, 2005). Pioneering vegetation in the intertidal zone is dominated by *Halophila ovalis* and *Halodule pinifolia* while *Thalassodendron ciliatum* dominate the lower subtidal zones (Hutumo & Moosa, 2005). Data from the **United Nations Environment Program's (UNEP) World Conservation Monitoring Centre** has identified the south-west and west Lombok, Savu and the south coast of Timor-Leste as potential areas of importance for seagrass (DeVantier et al. 2008).



### 4.9.3 Shoreline habitats

There are no islands within WA-285-P or WA-343-P, with the closest intertidal habitat located at Browse Island (19 km and 68 km away respectively). Within the PEZ there are many islands that occur including numerous small islands and literally thousands of islands along the Australian and Indonesian coastlines. The shoreline habitats of the Tiwi Islands and Vernon Islands are described further in this section.

In the offshore waters of the PEZ there are multiple islands which have an associated Commonwealth or State marine park/reserve status. The values and sensitivities associated with the shorelines of these islands are described in sections 4.3, 4.4, 4.5 and 4.6.

#### Tiwi Islands

The Tiwi Island group consists of two large, inhabited islands (Melville and Bathurst), and nine smaller uninhabited islands (Buchanan, Harris, Seagull, Karlake, Irritutu, Clift, **Turiturina, Matingalia and Nodlaw**). **Melville Island is Australia's second largest island (after Tasmania)**, while Bathurst Island is fifth largest. Bathurst Island is approximately 2,600km<sup>2</sup> and Melville Island is approximately 5,785 km<sup>2</sup>. The main islands are separated by Apsley Strait, which connects Saint Asaph Bay in the north and Shoal Bay in the south. The islands have been identified as an IBA as they support populations of many migratory shorebirds (BirdLife International 2022d) and they provide nesting habitat for marine turtles (DEE 2017a). The southern coast of Melville Island is predominantly characterised by sand-mud tidal flats with some mangroves and coral communities. The south-east of Melville Island has extensive tidal mudflats which provide an extensive habitat for shorebirds (INPEX 2010). The south coast of Bathurst Island has less extensive intertidal habitats than **Melville Island. The islands' shorelines also feature numerous mangrove-lined bays and inlets.**

Seagrasses have been recorded along the northern coastlines of both Bathurst and Melville islands (Roelofs et al. 2005).

#### Vernon Islands

The Vernon Islands are located in the Clarence Strait, north of Darwin. Three major islands make up the Vernon Islands group, plus a large reef and numerous lesser reefs and sand islands (TLC 2013). The islands are low lying, with a maximum height of 4 m above mean sea level. The islands are generally fringed with mangroves and surrounded by mud flats and rocks/reefs exposed at low tides.

Sediments around the Vernon Islands are gravel-dominated, due to the very strong tidal currents, experienced every day in the Clarence Strait.

Significant coral reefs are established within the intertidal and subtidal zone of the Vernon Islands, dominated by *Acropora* and *Montipora* spp. Extensive coralline algal terraces have also developed at the Vernon Islands reef complex. Extensive mangrove forests are present along the Vernon Islands coastline (Smit et al. 2000; KBR 2003) as well as seagrass and algal beds (TLC 2013).

The waters surrounding the Vernon Islands support populations of dugong and turtles, and studies have shown that dugong spend a considerable amount of time on intertidal rocky reefs at the Vernon Islands (Whiting, 2002).

## Sandy beaches

Sandy beaches are the dominant shoreline habitat on all the offshore islands within the PEZ and provide significant habitat for turtles and seabird nesting above the high tide line. Sandy beaches are present within the PEZ at the sandy cays of Ashmore Reef, Cartier Island, Browse Island, Scott Reef and the Tiwi Islands as described in Sections 4.3 and 4.4. The southern coastlines of the islands of the Lesser Sunda Ecoregion of Indonesia and Timor-Leste are known to contain sandy beaches consisting of soft black sand, formed by volcanic activity. Within this region, a number of important sites for turtle nesting beaches have been identified (Huffard et al. 2012).

Generally, sands are highly mobile and therefore do not support a high level of biodiversity. Fauna within sandy beach habitats usually consists of polychaete worms, crustaceans and bivalves. These fauna provide a valuable food source for resident and migratory sea and shorebirds (DECMPRA 2005). Natural processes tend to supply fresh sediments and larval stock (food source) with each tidal influx.

## Mangroves

Mangrove communities make up a common shoreline habitat along the northern WA coastlines with extensive mangrove communities along the Australian and Indonesian coastline within the PEZ. They commonly occur in sheltered coastal areas in tropical and sub-tropical latitudes. Mangroves play an important role in connecting the terrestrial and marine environments and reducing coastal erosion. They also play an important ecosystem role in nutrient cycling and carbon fixing (NOAA 2010).

**More than a quarter of the world's species of mangroves can be found along the Kimberley coast, covering an area of approximately 1,400 km<sup>2</sup>.** During 2009, shoreline ecological aerial and ground surveys were conducted from Darwin in the NT to Broome in WA in response to the Montara oil spill (Duke et al. 2010). Approximately 5,100 km of shoreline was surveyed, analysed and mapped to quantitatively characterise coastal ecological features. Mangroves were found to grow along 63% of the surveyed shoreline and salt marshes occurred over 24% of the shoreline.

No mangroves are present on Christmas Island with the exception of a stand of estuarine mangrove species, identified approximately 37 m above sea level at the Hosnies Spring wetland (Ramsar site, Section 4.6.3) (DNP 2012).

Within Indonesia, 41 species of mangroves, occupying some 32,000 km<sup>2</sup> have been recorded (ABD 2014). The Timor-Leste coastline also features mangrove communities surrounding entrances to rivers, primarily situated on the southern coast.

### 4.9.4 Marine fauna

#### Species of conservation significance

Species of conservation significance within the PEZ were identified through a search of the EPBC Act Protected Matters database (including a 1 km buffer).

The search identified a total of 41 **"listed threatened" species** and 89 **"listed migratory"** species that potentially use or pass through the PEZ.

In addition, 168 **"listed marine" species** were identified, of which 32 are **"whales and other cetaceans" that may occur at, or immediately adjacent to, the area.** The full search results are contained in Appendix A.1.

Table 4-4 presents the marine species that are **"listed threatened" species** or **"listed migratory species"**. Note that true terrestrial species have not been listed in Table 4-4.

Table 4-4: Listed threatened and/or migratory species under the EPBC Act potentially occurring within the PEZ

Species	Common name	Conservation status	Migratory
Marine mammals			
<i>Balaenoptera borealis</i>	Sei whale	Vulnerable	Migratory
<i>Balaenoptera edeni</i>	<b>Bryde's</b> whale	N/A	Migratory
<i>Balaenoptera musculus</i>	Blue whale	Endangered	Migratory
<i>Balaenoptera physalus</i>	Fin whale	Vulnerable	Migratory
<i>Eubalaena australis</i>	Southern Right Whale	Endangered	Migratory
<i>Megaptera novaeangliae</i>	Humpback whale	N/A	Migratory
<i>Balaenoptera bonaerensis</i>	Antarctic Minke Whale	N/A	Migratory
<i>Orcinus orca</i>	Killer whale	N/A	Migratory
<i>Physeter macrocephalus</i>	Sperm whale	N/A	Migratory
<i>Dugong dugon</i>	Dugong	N/A	Migratory
<i>Orcaella heinsohni</i>	Australian snubfin dolphin	N/A	Migratory
<i>Sousa chinensis/ Sousa sahalensis</i>	Indo-Pacific humpback dolphin	N/A	Migratory
<i>Tursiops aduncus</i>	Spotted bottlenose dolphin	N/A	Migratory
Marine reptiles			
<i>Caretta caretta</i>	Loggerhead turtle	Endangered	Migratory
<i>Chelonia mydas</i>	Green turtle	Vulnerable	Migratory
<i>Dermochelys coriacea</i>	Leatherback turtle	Endangered	Migratory
<i>Eretmochelys imbricata</i>	Hawksbill turtle	Vulnerable	Migratory
<i>Lepidochelys olivacea</i>	Olive Ridley turtle	Endangered	Migratory
<i>Natator depressus</i>	Flatback turtle	Vulnerable	Migratory
<i>Crocodylus porosus</i>	Saltwater crocodile	N/A	Migratory
<i>Aipysurus apraefrontalis</i>	Short-nosed seasnake	Critically Endangered	N/A
<i>Aipysurus foliosquama</i>	Leaf-scaled seasnake	Critically Endangered	N/A

Species	Common name	Conservation status	Migratory
Sharks, fish and rays			
<i>Rhincodon typus</i>	Whale shark	Vulnerable	Migratory
<i>Carcharodon carcharias</i>	Great white shark	Vulnerable	Migratory
<i>Carcharias taurus</i>	Grey nurse shark	Vulnerable	N/A
<i>Glyphis garricki</i>	Northern river shark	Endangered	N/A
<i>Glyphis glyphis</i>	Speartooth Shark	Critically Endangered	N/A
<i>Pristis clavata</i>	Dwarf sawfish	Vulnerable	Migratory
<i>Pristis pristis</i>	Northern sawfish, Freshwater sawfish, Largetooth sawfish	Vulnerable	Migratory
<i>Pristis zijsron</i>	Green sawfish	Vulnerable	Migratory
<i>Anoxypristis cuspidata</i>	Narrow sawfish	N/A	Migratory
<i>Isurus oxyrinchus</i>	Shortfin mako	N/A	Migratory
<i>Isurus paucus</i>	Longfin mako	N/A	Migratory
<i>Carcharhinus longimanus</i>	Oceanic whitetip shark	N/A	Migratory
<i>Manta alfredi</i>	Reef manta ray	N/A	Migratory
<i>Manta birostris</i>	Giant manta ray	N/A	Migratory
<i>Sphyrna lewini</i>	Scalloped hammerhead	Conservation dependent	N/A
<i>Thunnus maccoyii</i>	Southern bluefin tuna	Conservation dependent	N/A
Marine avifauna			
<i>Anous tenuirostris melanops</i>	Australian lesser noddy	Vulnerable	N/A
<i>Calidris canutus</i>	Red Knot	Endangered	Migratory
<i>Calidris ferruginea</i>	Curlew Sandpiper	Critically Endangered	Migratory
<i>Calidris tenuirostris</i>	Great Knot	Critically Endangered	Migratory
<i>Charadrius leschenaultii</i>	Greater Sand Plover	Vulnerable	Migratory
<i>Charadrius mongolus</i>	Lesser Sand Plover	Endangered	Migratory

Species	Common name	Conservation status	Migratory
<i>Fregata andrewsi</i>	Christmas Island Frigatebird, Andrew's Frigatebird	Endangered	Migratory
<i>Hypotaenidia philippensis andrewsi</i>	Buff-banded Rail (Cocos (Keeling) Islands), Ayam Hutan	Endangered	N/A
<i>Limosa Lapponica baueri</i>	Bar-tailed Godwit	Vulnerable	Migratory
<i>Limonsa lapponica menzbieri</i>	Northern Siberian Bar-tailed Godwit	Critically Endangered	Migratory
<i>Macronectes giganteus</i>	Southern giant petrel	Endangered	Migratory
<i>Numenius madagascariensis</i>	Eastern curlew	Critically Endangered	N/A
<i>Papasula abbotti</i>	<b>Abbott's Booby</b>	Endangered	Migratory
<i>Phaethon lepturus fulvus</i>	Christmas Island White-tailed Tropicbird, Golden Bosunbird	Endangered	N/A
<i>Pterodroma arminjoniana</i>	Round Island Petrel, Trinidade Petrel	Critically Endangered	N/A
<i>Pterodroma mollis</i>	Soft-plumaged Petrel	Vulnerable	N/A
<i>Rostratula australis</i>	Australian Painted Snipe	Endangered	N/A
<i>Sternula nereis nereis</i>	Australian Fairy Tern	Vulnerable	Migratory
<i>Thalassarche carteri</i>	Indian Yellow-nosed Albatross	Vulnerable	Migratory
<i>Anous stolidus</i>	Common noddy	N/A	Migratory
<i>Apus pacificus</i>	Forktailed swift	N/A	Migratory
<i>Ardenna carneipes</i>	Flesh-footed Shearwater	N/A	Migratory
<i>Ardenna pacifica</i>	Wedge-tailed Shearwater	N/A	Migratory
<i>Calonectris leucomelas</i>	Streaked shearwater	N/A	Migratory
<i>Fregata ariel</i>	Lesser frigatebird	N/A	Migratory
<i>Fregata minor</i>	Great frigatebird	N/A	Migratory
<i>Hydroprogne caspia</i>	Caspian tern	N/A	Migratory
<i>Sterna anaethetus</i>	Bridled tern	N/A	Migratory

Species	Common name	Conservation status	Migratory
<i>Phaethon lepturus</i>	White-tailed tropicbird	N/A	Migratory
<i>Phaethon rubricauda</i>	Red-tailed tropicbird	N/A	Migratory
<i>Sterna dougallii</i>	Roseate tern	N/A	Migratory
<i>Onychoprion anaethetus</i>	Little tern	N/A	Migratory
<i>Sula dactylatra</i>	Masked booby	N/A	Migratory
<i>Sula leucogaster</i>	Brown booby	N/A	Migratory
<i>Sula sula</i>	Red-footed booby	N/A	Migratory
<i>Acrocephalus orientalis</i>	Oriental Reed-Warbler	N/A	Migratory
<i>Actitis hypoleucos</i>	Common Sandpiper	N/A	Migratory
<i>Arenaria interpres</i>	Ruddy Turnstone	N/A	Migratory
<i>Calidris acuminata</i>	Sharp-tailed Sandpiper	N/A	Migratory
<i>Calidris alba</i>	Sanderling	N/A	Migratory
<i>Calidris melanotos</i>	Pectoral Sandpiper	N/A	Migratory
<i>Calidris ruficollis</i>	Red-necked Stint	N/A	Migratory
<i>Charadrius bicinctus</i>	Double-banded Plover	N/A	Migratory
<i>Charadrius dubius</i>	Little Ringed Plover	N/A	Migratory
<i>Charadrius veredus</i>	Oriental Plover	N/A	Migratory
<i>Gallinago megala</i>	Swinhoe's Snipe	N/A	Migratory
<i>Gallinago stenura</i>	Pin-tailed Snipe	N/A	Migratory
<i>Glareola maldivarum</i>	Oriental Pratincole	N/A	Migratory
<i>Limicola falcinellus</i>	Broad-billed Sandpiper	N/A	Migratory
<i>Limnodromus semipalmatus</i>	Asian Dowitcher	N/A	Migratory
<i>Limosa limosa</i>	Black-tailed Godwit	N/A	Migratory
<i>Numenius minutus</i>	Little Curlew, Little Whimbrel	N/A	Migratory
<i>Numenius phaeopus</i>	Whimbrel	N/A	Migratory
<i>Pandion haliaetus</i>	Osprey	N/A	Migratory

Species	Common name	Conservation status	Migratory
<i>Philomachus pugnax</i>	Ruff (Reeve)	N/A	Migratory
<i>Pluvialis fulva</i>	Pacific Golden Plover	N/A	Migratory
<i>Pluvialis squatarola</i>	Grey Plover	N/A	Migratory
<i>Thalasseus bergii</i>	Greater Crested Tern	N/A	Migratory
<i>Tringa brevipes</i>	Grey-tailed Tattler	N/A	Migratory
<i>Tringa incana</i>	Wandering Tattler	N/A	Migratory
<i>Tringa glareola</i>	Wood Sandpiper	N/A	Migratory
<i>Tringa nebularia</i>	Common Greenshank	N/A	Migratory
<i>Tringa stagnatilis</i>	Marsh Sandpiper, Little Greenshank	N/A	Migratory
<i>Tringa totanus</i>	Common Redshank	N/A	Migratory
<i>Xenus cinereus</i>	Terek Sandpiper	N/A	Migratory

### Conservation management plans

In addition to species being identified as threatened or migratory and MNES, depending on the threat classification, the DCCEEW has established management policies, guidelines, plans and other materials for threatened fauna, threatened flora (other than conservation-dependent species) and threatened ecological communities listed under the EPBC Act.

In particular, the objectives of the published recovery plans and conservation advices, seek to support the long-term recovery of various species outlining research and management measures that must be undertaken to stop the decline of, and support the recovery of a species, including the management of threatening processes.

Species identified during the EPBC Act Protected Matters database search that have a conservation advice or a recovery plan in place, as well as any particular relevant actions to assist their recovery and conservation, including threat abatement plans, are summarised in Appendix A.2.

### Biological important areas

The DCCEEW has, through the marine bioregional planning program, identified, described and mapped BIAs for protected species under the EPBC Act. BIAs spatially and temporally define areas where protected species display biologically important behaviours (including breeding, foraging, resting or migration), based on the best available scientific information. These areas are those parts of a marine region that are particularly important for the conservation of protected species.

Table 4-5 provides an overview of the EPBC-listed species, identified by the EPBC Act Protected Matters database search, that are associated with a BIA in the PEZ. The locations of relevant BIAs for EPBC-listed species are shown in Figure 4-4 to Figure 4-8.

Table 4-5: BIAs intersecting the PEZ

Species	Migration route	Foraging	Interesting	Resting/breeding	Aggregation/calving	Pupping/nursing
Humpback whale	x				x	
Pygmy blue whale	x					
Dugong		x				
Coastal dolphins: Indo-Pacific humpback dolphin, bottlenose dolphin and Australian snubfin dolphin		x		x	x	
Whale shark		x				
Large-tooth/freshwater, dwarf and green sawfish		x				x
Avifauna		x		x		
Flatback turtle		x	x			
Green turtle		x	x			
Hawksbill turtle		x	x			
Loggerhead turtle		x				



## Marine mammals

Noise logging surveys were undertaken by INPEX to determine the critical areas of use and to establish a baseline of abundance for cetaceans within the Kimberley region. Noise loggers were set on the sea floor at two sites: in the Browse Basin 45 km north-west of Browse Island (in 240 m of water) and at an inshore site near the Maret Islands (in 45 m of water) between September 2006 and August 2008. The loggers detected anthropogenic noise signals from vessel activities and seismic surveys, as well as signals from pygmy blue whales, humpback whales, Antarctic and dwarf minke whales, a signal which is believed to be from **Bryde's whales, and several unknown great whale signals, plus a plethora of fish signal types and choruses** (McCauley 2009).

There are no identified BIAs for marine mammals within WA-285-P or WA-343-P. However, a number of marine mammal BIAs overlap the PEZ as outlined in Table 4-5 and shown in Figures 4-4 and 4-5. Marine mammals associated with a BIA in the PEZ are described in more detail within this subsection.

### Humpback whale

In February 2022, the status of the humpback whale was updated, and the species was removed from the threatened species list (DAWE 2022r). Despite removal from the threatened species list, the humpback whale remains a MNES under the EPBC Act as a listed cetacean and as a listed migratory species.

There are two humpback whale (*Megaptera novaeangliae*) BIAs located within the PEZ; a migratory corridor and a breeding and calving area, as shown in Figure 4-4. During their annual northern and southern migrations, transitory humpback whales will pass through the PEZ generally between June and October, with peak ingress during July. The population increases up to mid-August when whales begin to depart on their southern migration. Peak egress occurs around September and the final groups of whales tend to have departed by late October (Jenner et al. 2001; Thums et al. 2018).

The migratory habitat for the humpback whale around mainland Australia is primarily coastal waters less than 200 m in depth and generally within 20 km of the coast (Jenner et al. 2001). Breeding and calving generally occurs between the Lacepede Islands and Camden Sound. Camden Sound is considered the northern most limit and is considered an important calving and breeding area (Jenner et al. 2001). A recent study as part of the Kimberley Marine Research Project (Thums et al. 2018) analysed three decades of satellite, aerial, boat-based sightings and determined that abundance was greatest in nearshore waters in water depths of approximately 35 m. However, whales (including cows and calves) may also occur in lower abundance elsewhere within and further offshore from the BIAs, with whales having been recorded in offshore locations such as Browse Island and Scott Reef (e.g. McCauley 2009). Isolated observations of humpback whales and their calves have been noted within the Ichthys Field. The closest BIA to the permit areas relates to calving and resting and is located approximately 100 km south-east from WA-285-P and 175 km east from WA-343-P at its closest point.

### Blue Whale

There are two recognised subspecies of blue whale in the southern hemisphere, which are both recorded in Australian waters. They are the southern (or 'true') blue whale (*Balaenoptera musculus intermedia*) and the pygmy blue whale (*Balaenoptera musculus brevicauda*) (DoE 2015; DAWE 2021). 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) (DoE 2015). On this basis, any blue whales present within the permit areas/PEZ would be expected to be pygmy blue whales.

The 2015 Conservation Management Plan for the Blue Whale (DoE 2015) outlines the distribution of blue whales in Australian waters, and associated BIAs (i.e. migratory corridor and foraging areas). The closest BIA present within the PEZ, is a migratory corridor, located approximately 75 km west of WA-285-P and 40 km west of WA-343-P at the closest points. There is also a foraging BIA at Scott Reef, approximately 100 km west of WA-285-P and 130 km south-west of WA-343-P (Figure 4-4)

Pygmy blue whale migration is thought to follow deep oceanic routes. More recently, the migration route has been defined as along the shelf edge at depths between 500 m to 1,000 m (DoE 2015). Observations suggest most pygmy blue whales pass along the shelf edge out to water depths of 1,000 m but centred near the 500 m depth contour (McCauley & Jenner 2010). Satellite tagging (2009–2011) confirmed that the general distribution of pygmy blue whales was offshore in water depths >200 m and commonly >1,000 m (Double et al. 2014).

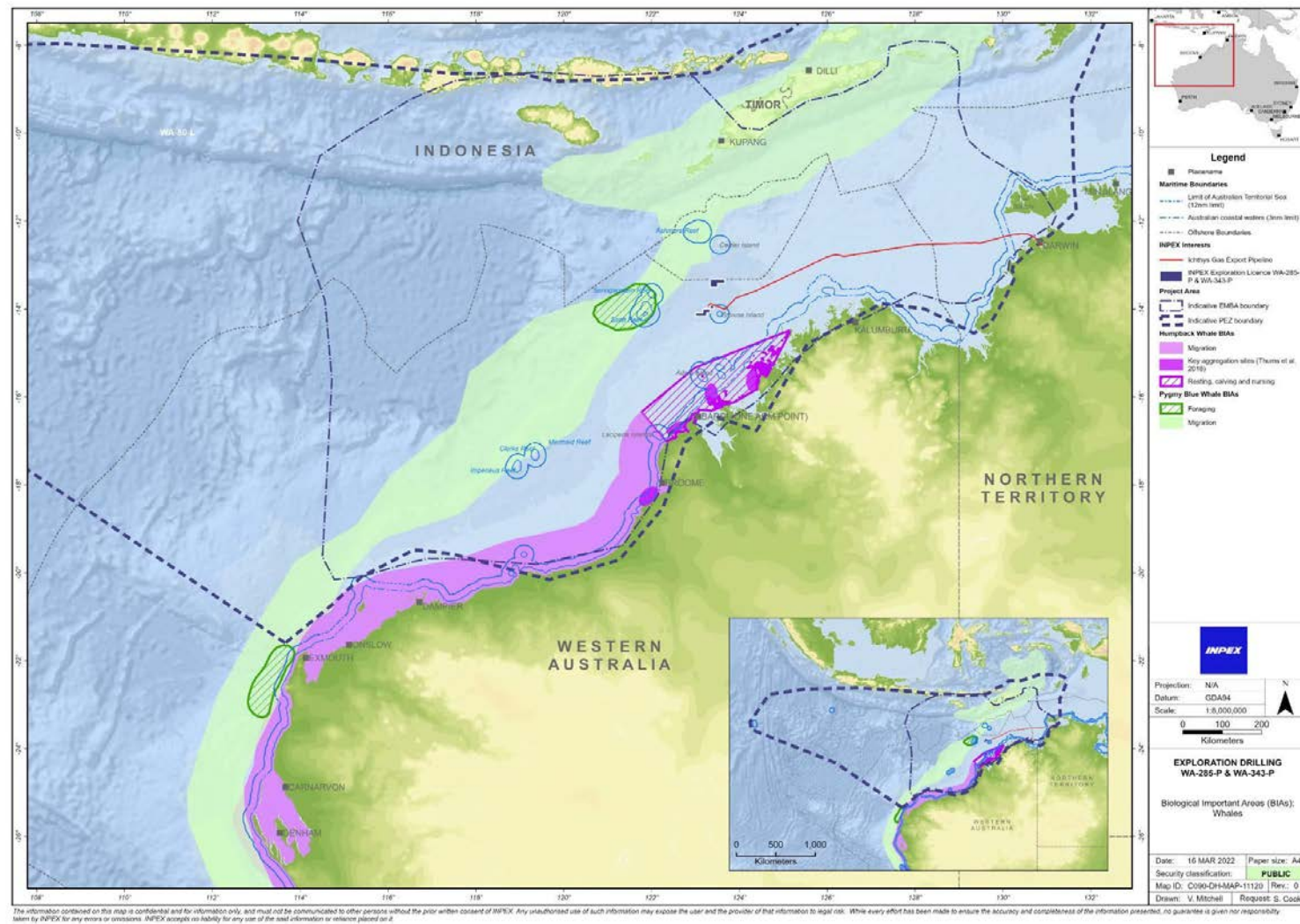


Figure 4-4: Biologically important areas associated with whales that intersect the PEZ and EMBA

## Dugongs

Within the PEZ, there is a dugong foraging BIA at Ashmore Reef and another along the Dampier Peninsula, near Broome (Figure 4-5) which correlates with seagrass habitats (refer Section 4.9.2).

Dugongs are considered Specially Protected under Schedule 4 of the *Biodiversity Conservation Act 2018* (WA) and are listed as migratory species under the EPBC Act. A **significant proportion of the world's dugong population occurs in the coastal waters of the west-Pilbara nearshore, as well as Ningaloo Reef and Exmouth Gulf** (Marsh et al. 2011). Dugongs generally inhabit shallow waters (around 10 m depth) and are commonly found in mangrove channels of inshore islands and shallow areas near the seagrass habitats on which they feed (DAWE 2022s).

The shallow seagrass habitat at the Cocos (Keeling) Islands appears suitable for dugongs and **were once part of the dugong's historical range**. However, in 1970, it was reported that dugongs no longer occur at the Cocos (Keeling) Islands (Hobbs et al. 2007). Since 1970, there have only been three confirmed sightings (in 1989, 1998 and 2007) of dugongs at the Cocos (Keeling) Islands (Hobbs et al. 2007).

## Dolphins

Coastal dolphin BIAs for breeding, resting, calving and foraging are located within the PEZ, as shown in Figure 4-5. There are three species of coastal dolphin to which these BIAs relate as discussed below. A recent study of snubfin and humpback dolphins in the Kimberley region (Waples et al. 2019) confirmed these species of dolphins are present at low densities and occur as relatively small populations across the Kimberley.

### Indo-Pacific bottlenose dolphin

The Indo-Pacific spotted bottle nose dolphin (*Tursiops aduncus*) is generally considered to be a warm water subspecies of the common bottlenose dolphin (*Tursiops truncatus*) and may occur within the permit areas and the PEZ. The Indo-Pacific spotted dolphin appears to occupy inshore waters, often in depths of less than 10 m (Bannister et al. 1996). It is known to occur from Shark Bay, north to the western edge of the Gulf of Carpentaria and is regarded as a migratory species under the EPBC Act (DAWE 2022t).

### Australian snubfin dolphin

The Australian snubfin dolphin (*Orcaella heinsohni*) may occur within the PEZ. All available data on the distribution and habitat preferences of Australian snubfin dolphin (*Orcaella heinsohni*) indicate that they mainly occur in the shallow coastal and estuarine waters of the NT and north WA (Beasley et al. 2002; Brown et al. 2017). There are no data to estimate any past or potential future declines in the area of occupancy for snubfin dolphins in Australia; however, incidental catches in gillnets (albeit at unknown levels), in addition to habitat degradation, may lead to a reduction of area of occupancy over the next three generations for Australian snubfin dolphins (DAWE 2022u).

### Indo-pacific humpback dolphin

The Indo-Pacific humpback dolphin (*Sousa sahalensis/Sousa chinensis*) may occur in the PEZ with its presence reported along the northern coastline of Australia down to Exmouth on the WA coastline. The total population size of the Indo-Pacific humpback dolphin in Australian waters is unknown. Given that the required shallow habitat preferred by this species occurs continuously throughout its recorded range, the distribution of the Indo-Pacific humpback dolphin is considered to represent one continuous location (DAWE 2022v).

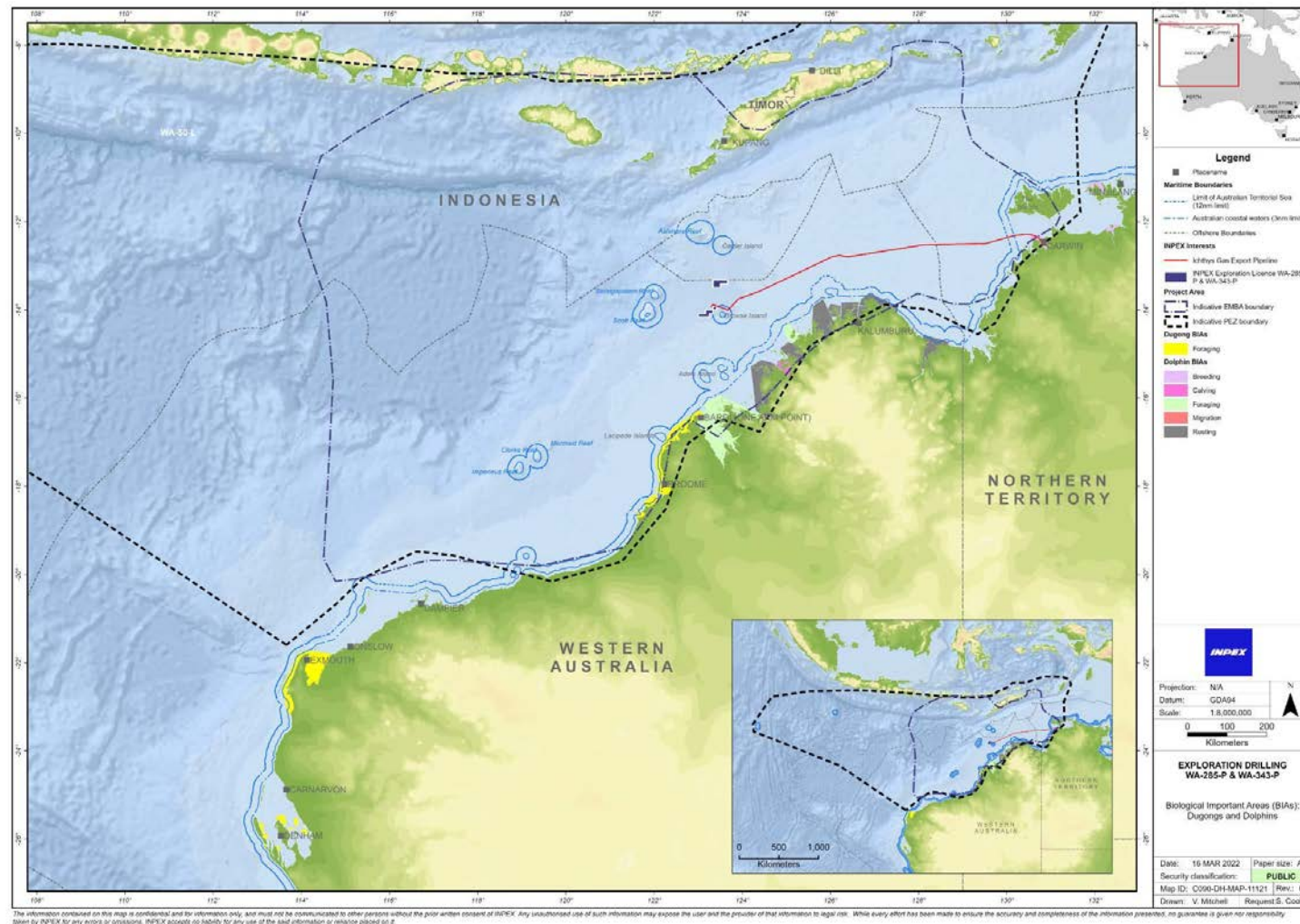


Figure 4-5: Biologically important areas associated with dugongs and dolphins that intersect the PEZ and EMBA

## Marine reptiles

### Turtles

The EPBC Act Protected Matters search identified six species of marine turtle which may occur within the PEZ: the green turtle (*Chelonia mydas*), loggerhead turtle (*Caretta caretta*), leatherback turtle (*Dermochelys coriacea*), flatback turtle (*Natator depressus*), hawksbill turtle (*Eretmochelys imbricate*) and olive ridley turtle (*Lepidochelys olivacea*).

Browse Island is the closest turtle-nesting area (located approximately 19 km south-east of WA-285-P and 68 km south of WA-343-P at the closest points) and is surrounded by a 20 km internesting buffer for green turtles between November and March (DEE 2017a).

Within the PEZ there are a range of BIAs and critical habitats for turtle breeding, foraging and internesting (Figure 4-6). Nesting rookeries within the PEZ include Browse Island, Ashmore Reef, Cartier Island, Cassini Island, Scott Reef, Tiwi Islands and the Lacepede Islands as identified in the Recovery Plan for Marine Turtles in Australia (DEE 2017a). Peak nesting periods for all turtle species within these areas are generally between November and April.

A 20 km internesting buffers associated with green turtles have been identified for Browse Island, Scott Reef (Sandy Islet), Adele Island, Melville Island (Tiwi islands) and Cassini Island between November and March. Similarly, a 60 km internesting buffer for flatback turtles has been identified at Cassini Island between May and July (DEE 2017a). At Scott Reef there is an interesting BIA (20 km buffer) for hawksbill turtles where internesting occurs in October–February each year, and peaks in December and January (DEE 2017a). At the Tiwi islands, an internesting buffer for flatback (60 km) and olive ridley (20 km) turtles has been identified year-round (DEE 2017a) with peak nesting occurring between June–September and April–June respectively.

Foraging BIAs for these species occurs at the Joseph Bonaparte Depression and Joseph Bonaparte Gulf, which overlap the PEZ and EMBA (Figure 4-6). Satellite tagging of nesting female loggerhead turtles from the Ningaloo/Pilbara coast of Western Australia have shown dispersal north-west as far as Indonesia and southern Borneo, north-east as far as the Tiwi Islands and south as far as the Great Australian Bight (Waayers et al. 2015; Whiting et al. 2008). Flatback turtles are known to forage across the Australian continental shelf as far north as Indonesia and Papua New Guinea (DEE 2017a). There is limited tag recovery data for olive ridley turtles, but satellite tracking data indicates that they appear to remain on the Australian continental shelf (Waayers et al. 2015).

Satellite tracking data reviewed in recent studies (Ferreira et al. 2020; Thums et al. 2021) concluded that the spatial extent of marine turtle internesting areas was adequately covered by the defined internesting buffers and therefore afforded an appropriate level of protection. However, the spatial extents of foraging BIAs are considered to potentially underestimate the distribution of foraging turtles. The closest turtle foraging BIAs to WA-285-P and WA-343-P relate to Ashmore Reef, Cartier Island and Scott Reef (Figure 4 6).

Turtles are not expected to be present in high numbers in WA-285-P or WA-343-P. However, individual green turtles may occasionally be present associated with the internesting buffer at Browse Island, and other marine turtle species are likely to be present in the waters of the PEZ as it encompasses several locations that support turtle foraging, nesting and internesting behaviours.

During consultation with relevant persons, Traditional Owners from the Thamarrurr Development Corporation and Daly River/Port Keats Land Trust advised INPEX that turtle nesting occurs along their coastline.

### Sea snakes

The EPBC Act Protected Matters database search identified 26 sea snakes which may occur within the PEZ (13 of which may also be found in WA-285-P and 12 of which may also be found in WA-343-P). There are no reported BIAs for sea snakes. Scott Reef is considered a region of high sea snake endemism and a decline in sea snake abundance has been reported within the Ashmore Reef MP (Udyawer 2020). Most of the knowledge of sea snakes in Australian waters comes from trawler bycatch (Udyawer et al. 2020; Milton et al. 2009; Ward 1996). These studies indicate that sea snakes in northern regions of Australia tend to breed **in shallow embayment's and estuaries which are only represented** in the PEZ. Therefore, these species may be seen in the open waters of the permit areas, but their presence is unlikely to be common.

### Crocodiles

The saltwater or estuarine crocodile (*Crocodylus porosus*) has a tropical distribution that extends across the northern coastline of Australia, where it can be found in coastal waters, estuaries, freshwater lakes, inland swamps and marshes, as well as far out to sea (Webb et al. 1987). There are no reported BIAs for crocodiles. Due to the species preference for estuaries and swamps and coastal waters they are unlikely to occur in the open waters of the permit areas and are more likely to be observed in the PEZ where these preferred habitats occur.

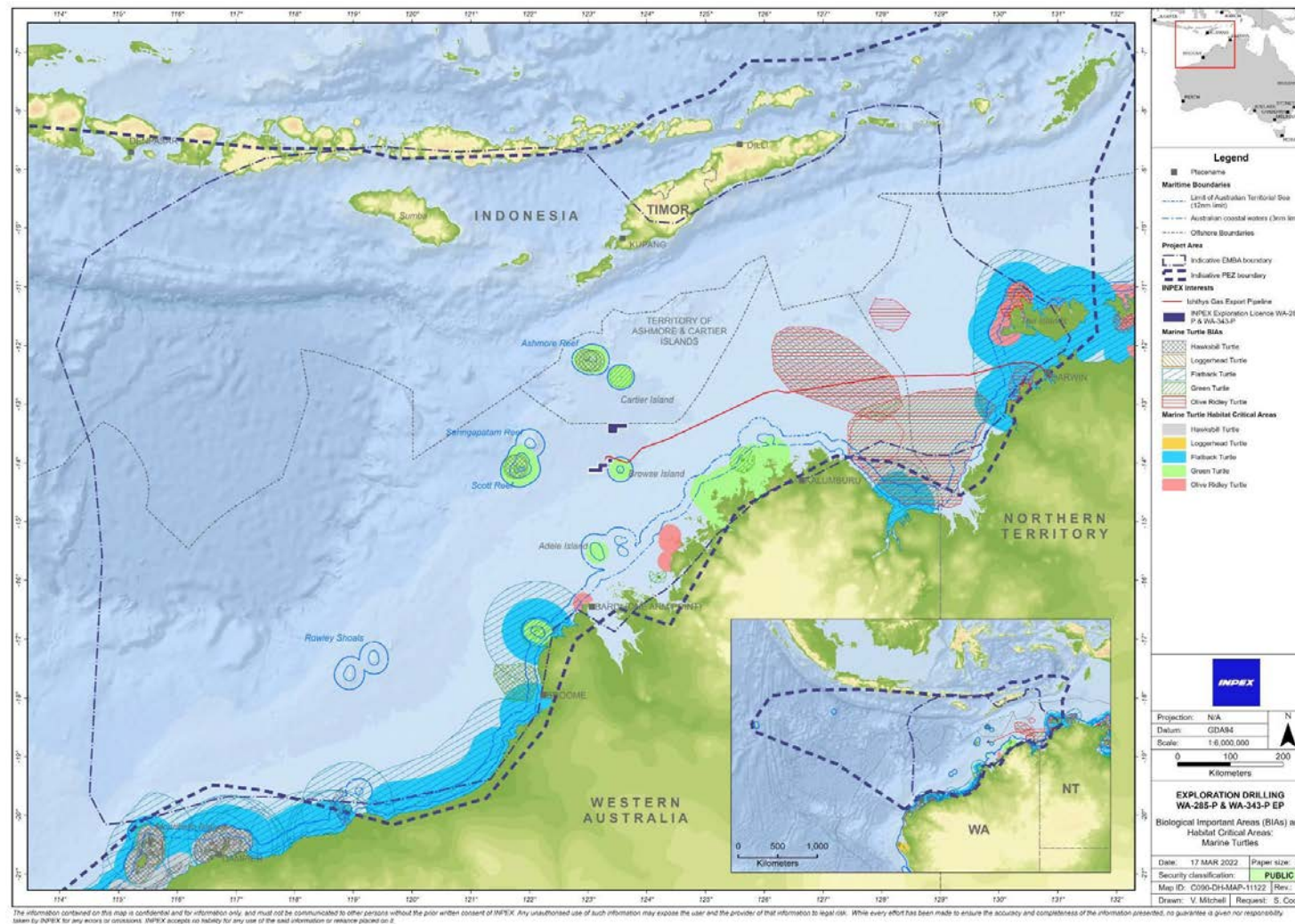


Figure 4-6: Biologically important areas associated with marine turtles that intersect the PEZ and EMBA



## Fishes and sharks

While there are no BIAs for fishes and sharks within WA-285-P or WA-343-P, in the PEZ a BIA exists for whale sharks (foraging area) that largely follows the 125 m ancient coastline (Figure 4-7). There are also BIAs for sawfish (green, dwarf and freshwater) located to the south-west and north-east of Broome.

Although not specifically identified as BIAs, several of the KEFs within the PEZ, as described in Section 4.2, are also known to provide important habitat for diverse fish assemblages.

### Whale shark

The whale shark is a solitary planktivorous species that spends the greater part of its foraging time at water depths above 100 m, often near the surface (Brunnschweiler & Sims 2011; Wilson et al. 2006). However, whale sharks are also known to engage in mesopelagic and even bathypelagic diving when in bathymetrically unconstrained habitats (Brunnschweiler et al. 2009; Wilson et al. 2006).

Whale sharks appear to prefer different locations at different times of year, and despite a reasonable understanding of the various whale shark aggregation locations and timings, little is known about the large-scale transoceanic movements in response to seasonal abundance of planktonic prey species (Eckert & Stewart 2001). The relatively limited number and dispersed origin of dietary studies of whale sharks mean it is difficult to determine general patterns in the trophic ecology of these animals in coastal ecosystems and the degree to which they act as links between oceanic and reef environments (Marcus et al. 2019). Patterns suggest that their foraging behaviour and role in oceanic and coastal ecosystems, is likely to vary both in space and time (Marcus et al. 2019).

Whale sharks can travel over vast distances between aggregation sites. One whale shark tagged in the Seychelles was relocated after 42 days having travelled 3,000 km to south of Sri Lanka and then located again 4 months later, a further 5,000 km away in the waters of Thailand (Hsu et al. 2007). Therefore, it is possible that whale sharks may transit through the PEZ in both Australian and International waters.

Whale sharks are widely distributed in tropical Australian waters. Within WA, whale sharks aggregate seasonally (March–June) to feed in coastal waters off Ningaloo Reef (Wilson et al. 2006). Taylor (1996) and Rowat & Gore (2007) examined whale shark movements at Ningaloo Reef and observed that the sharks swim parallel to the reef but found no clear evidence of a north-south migration.

While Ningaloo is the nearest aggregation to the permit areas, it is located over 1,300 km to the south. Research on the migration patterns of whale sharks in the Indian Ocean, indicates that a small number of the WA (Ningaloo) population migrate through the wider vicinity of the Browse Basin region (McKinnon et al. 2002; Wilson et al. 2006; Jenner et al. 2008; Meekan & Radford 2010). Whale sharks from Ningaloo Reef fitted with satellite trackers were observed to travel either north-east towards Timor Leste, or north-west towards the Indonesia islands of Sumatra and Java, with some individuals passing through the broad vicinity of Scott Reef (McKinnon et al. 2002, Wilson et al. 2006, Meekan & Radford 2010; Sleeman et al. 2010). Aerial (Jenner & Jenner 2009a; RPS Environment and Planning Pty Ltd 2010, 2011) and vessel (Jenner et al. 2008; Jenner & Jenner 2009b) surveys conducted in 2008 and 2009, involving over 1,000 hours of observer effort, recorded one whale shark in 2008 and two whale sharks in 2010 in the Browse Basin (Jenner et al. 2008 and RPS Environment and Planning Pty Ltd 2011 respectively).

Within the PEZ, the whale shark BIA largely follows the ancient coastline at 125 m depth contour KEF and at its closest point is located approximately 5 km from WA-285-P and 10 km from WA-343-P at the closest points. However, based on the levels of whale shark abundance observed in the studies listed above, the likelihood of whale shark presence within this BIA is considered very low, with no specific seasonal pattern of migration.

#### Sawfish

Four species of sawfish (largetooth/freshwater/northern, narrow, dwarf and green sawfish) were identified in the EPBC Act Protected Matters database search of the PEZ (Appendix A.1). Only the narrow sawfish and green sawfish were identified in the EPBC Act Protected Matters database search of the permit areas. While sawfish are identified as potentially occurring within the permit areas and the PEZ, due to their ecology (generally estuarine rather than open-ocean species) it is expected that they will only be present in high numbers on the periphery of the PEZ where the BIAs are located (Figure 4-7).

As described in Section 4.3, environments found in the PEZ provide protection for shallow shelf habitats that are important foraging, nursing and pupping areas for freshwater, green and dwarf sawfish. The range of sawfish species overlaps with popular recreational fishing locations in some parts of the NMR (DSEWPaC 2012b) and adjacent areas. Observations of dead discarded sawfish species from recreational fishing highlights that mortality occurs as a direct result of capture and discarding (DSEWPaC 2012b).

#### Pipefish and seahorses

The EPBC Act Protected Matters database search identified 30 species of the family Syngnathidae which may occur within both permit areas and a further 22 species that may also potentially be present within the PEZ. Syngnathidae are a group of bony fishes that includes seahorses, pipefishes, pipehorses and sea dragons. Seahorses and pipefishes are a diverse group and occupy a wide range of habitats. However, the species identified in the EPBC Act Protected Matters database searches (Appendix A.1) generally display a preference for shallow water habitats such as seagrass and macroalgal beds, coral reefs, mangroves and sponge gardens that can be found in the shallower areas of the PEZ (Foster & Vincent 2004; Lourie et al. 1999; Scales 2010). In the permit areas, water depths are approximately 290 m to 350 m and preclude the presence of seagrass and hard bottom substrates, which can potentially support coral and macroalgae sponge garden communities. Therefore, pipefish and seahorses are only expected to occur in areas where suitable habitats are present, predominantly outside of WA-285-P and WA-343-P, in the broader PEZ.

#### Sharks and rays

Six shark species (including whale shark described above) and one ray species were identified as having the potential to occur in the permit areas (Appendix A.1). Three additional shark species and one additional ray species were identified as having the potential to occur within the PEZ (Table 4-4; Appendix A.1).

It is considered possible that larger pelagic sharks such as the great white, whale and mako sharks may transit through the permit areas. The likelihood of these species occurring in WA-285-P and WA-343-P is expected to be very low as the permit areas are not considered to provide habitat that is of breeding or feeding importance. As such, these species are unlikely to be common or resident within the permit areas.

The majority of recorded great white shark movements in Australian waters are reported to occur between the coast and the 100 m depth contour (DAWE 2022w).

Listed manta rays have been observed within the PEZ, but for the same reasons as the large pelagic sharks, are unlikely to be common or resident within WA-285-P or WA-343-P.

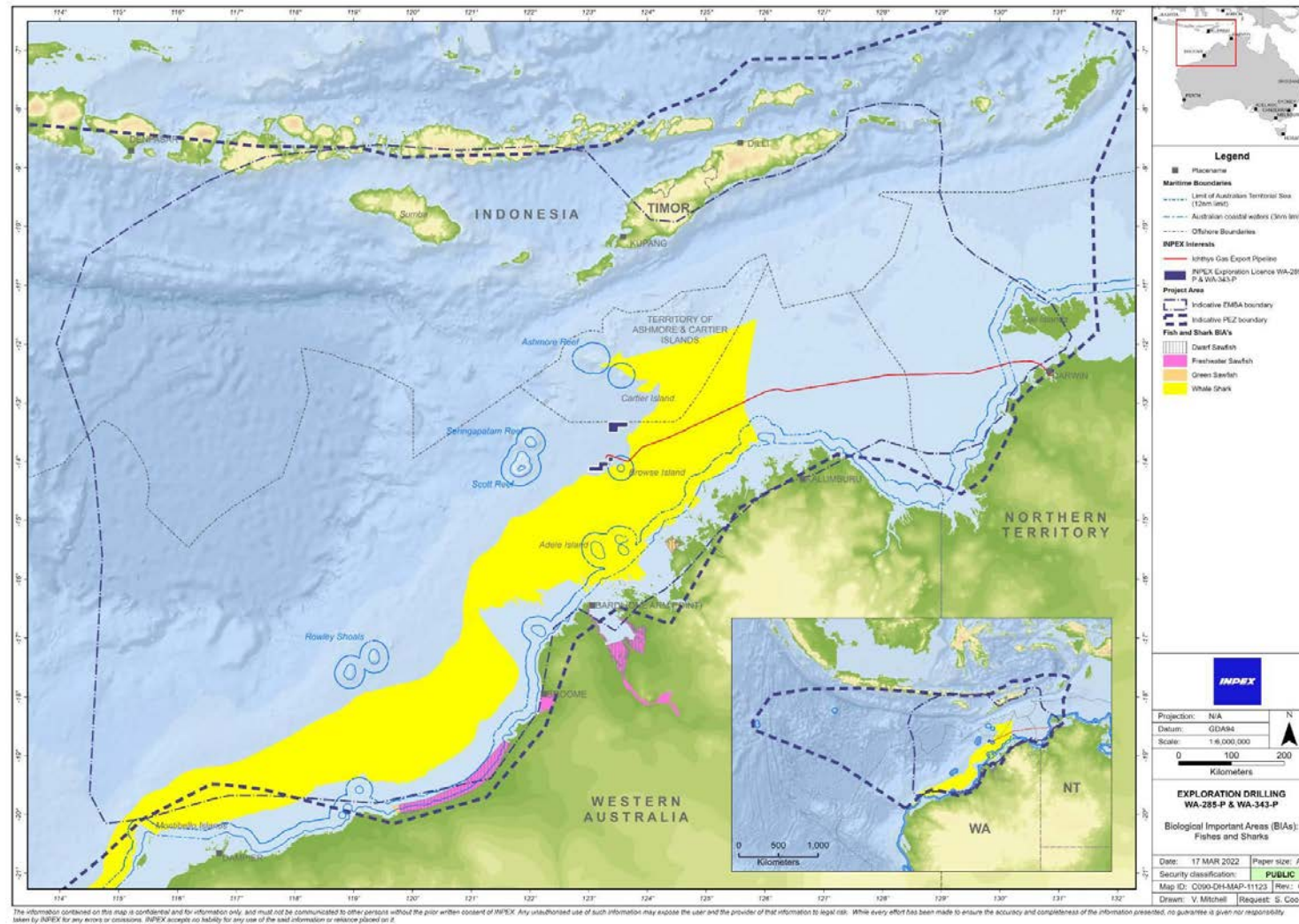


Figure 4-7: Biologically important areas associated with fishes and sharks that intersect the PEZ and EMBA

## Marine avifauna

The permit areas are located within the EAA Flyway an internationally recognised migratory **bird pathway that covers the whole of Australia and its surrounding waters**. 'Flyway' is the term used to describe a geographic region that supports a group of populations of migratory waterbirds throughout their annual cycle. There are 54 species of migratory shorebirds that are known to specifically follow migration paths within the EAA Flyway (Bamford et al. 2008). Migratory shorebird species are mostly present in Australia during the non-breeding period, from as early as August to as late as April/May each year. After arrival in Australia at the end of long migrations, they disperse throughout the country to a wide variety of habitats including coastal wetlands, mudflats, reefs and sandy beaches (DEE 2017b).

There are no BIAs for marine avifauna within WA-285-P or WA-343-P. However, the PEZ overlaps a large number of BIAs for a number of different marine avifauna species (Figure 4-8). The closest BIAs for marine avifauna relate to foraging around Adele Island, Ashmore Reef and Cartier Island, and Scott Reef. Several nationally important wetlands and Ramsar sites are also present within the PEZ (refer to Section 4.6). These sites provide important habitat for marine avifauna.

Vessel-based surveys conducted around the Ichthys gas field, Browse Island and to the west as far as Scott Reef were conducted by the Centre for Whale Research in 2008. (Jenner et al. 2008). Seabirds observed included frigatebirds, boobies, terns, noddies, tropicbirds, petrels, shearwaters and gulls, with the brown booby the most common species recorded. Of the species recorded during the vessel-based surveys, a number are migratory species listed under the EPBC Act, including the streaked shearwater, brown booby, masked booby, lesser frigatebird, bridled tern, lesser crested tern and little tern. These migratory species can be expected to be encountered in low numbers as they are likely to transit through the permit areas and the PEZ.

In addition to seabirds, the search of the EPBC Act Protected Matters database identified 32 species of migratory wetland bird species potentially present within the PEZ (six of which may also occur within both WA-285-P and WA-343-P). These species may migrate through the permit areas/PEZ to wetland habitats on the mainland and/or larger coastal islands (DEE 2017b). It is considered unlikely that WA-285-P or WA-343-P would provide any significant resources to support these species.

Observations of coastal seabirds in Timor-Leste were recorded from surveys undertaken between 2005-2010 (Trainor 2011). The surveys confirmed the presence of several species included in Table 4-4 such as *Calidris tenuirostris* (Great Knot) and *Limosa Lapponica baueri* (Bar-tailed Godwit).

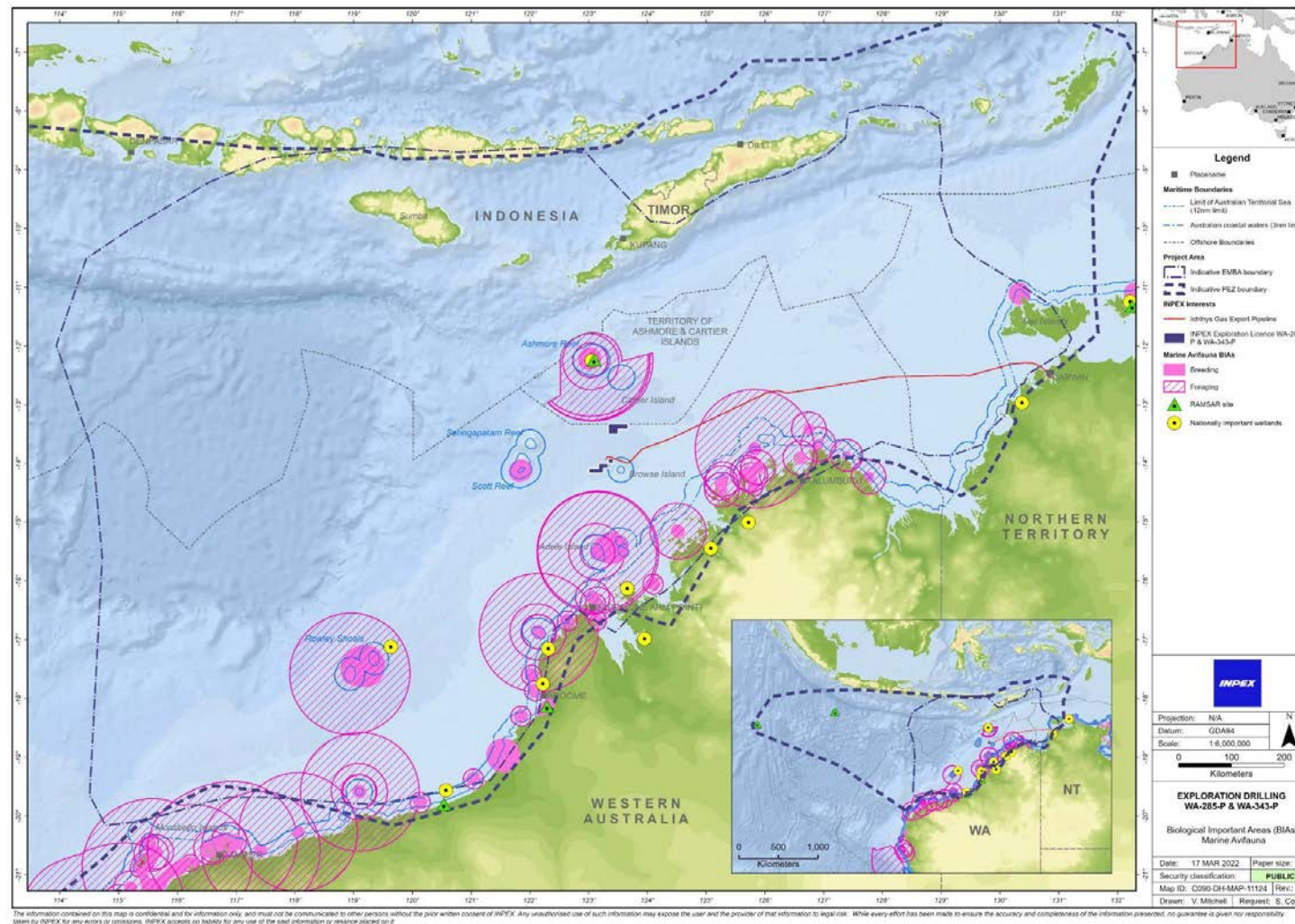


Figure 4-8: Biologically important areas associated with marine avifauna that intersect the PEZ and EMBA

## 4.10 Marine pests

Marine pests, or invasive marine species (IMS), are defined as non-native marine plants **or animals that harm Australia's marine environment, social amenity or industries** that use the marine environment; or have the potential to do so if they were to be introduced, established (that is, forming self-sustaining populations) or spread in Australia's marine environment (DAWR 2018). There are 60 known non-native marine species that have become established in WA waters. Most are temperate species, with only six that are exclusively tropical. The greatest number of introduced species is found in the south-west corner of WA (DoF 2016).

Not all marine species introduced into a new area become pests as not all of them will survive or may not manage to reproduce and establish a viable population. Many introduced marine species that establish self-sustaining populations cause no detectable harm. However, others have the potential to cause significant long-term economic, ecological and health consequences for the marine environment (DoF 2016).

Marine pests pose a major threat to the environment, economy and social amenity by disrupting ecological processes both directly (through predation or competition with native plants and animals) or indirectly (through habitat alteration). Once established, marine pests can rarely be eradicated, and their impacts are often long lasting (DAWR 2018).

Shallow water, coastal marine environments are most susceptible to the establishment of invasive populations, with most IMS associated with artificial substrates in disturbed shallow water environments such as ports and harbours (e.g. Glasby et al. 2007; Dafforn et al. 2009a, 2009b). The main supply bases supporting the exploration drilling activity in WA-285-P and WA-343-P are Broome, Darwin and Dampier described in Section 4.12.3 including a summary of their IMS status.

Within WA and NT waters the marine pest, *Didemnum perlucidum* (white colonial sea squirt) is widely established in many ports, marinas and other locations (Smale & Childs 2012; Dias et al. 2016; DPIRD 2021). *D. perlucidum* has been recorded in natural and artificial marine environments in WA from Busselton to Broome and the NT in Darwin and surrounding coastal waters (Muñoz & McDonald 2014.) First identified in WA in 2010, further monitoring confirmed the presence of separate populations along approximately 2,800 km of WA coastline. This ascidian can survive temperatures between 15 and 30 °C and has been recorded at depths of up to 8 m, however, it is commonly found in the upper 1–3 m of the water column (Muñoz & McDonald 2014).

Eradication of this pest has not been possible and the DPIRD manages *Didemnum perlucidum* only at the Montebello Islands where it is known to not have become established.

## 4.11 Cultural environment

### 4.11.1 World heritage areas

The World Heritage List is a list of places that are important to all the peoples of the world. The places on this list have special universal values above and beyond the values they hold for a particular nation. No world heritage areas were identified as overlapping WA-285-P, WA-343-P, EMBA or PEZ.

#### 4.11.2 National heritage places

The National Heritage List is **Australia's list of** natural, historic and Indigenous places of outstanding significance to the nation. A place may have natural, Indigenous or historic values, or a combination of all three. The West Kimberley national heritage place overlaps the PEZ.

##### The West Kimberley

The West Kimberley was included on the National Heritage List in 2011 and has numerous values which contribute to the significance of the property, including indigenous, historic, aesthetic, cultural and natural heritage values (DAWE 2022q). The West Kimberley is characterised by a diversity of landscapes and biological richness found in its cliffs, headlands, sandy beaches, rivers, waterfalls and islands.

#### 4.11.3 Commonwealth heritage places

The Commonwealth Heritage List contains places with natural, Indigenous and historic value owned by the Australian Government and protected under provisions of the EPBC Act. No Commonwealth heritage places occur within the WA-285-P or WA-343-P. Within the PEZ, 37 places are listed including those with natural heritage values described elsewhere in this EP, such as Ashmore Reef National Nature Reserve (Section 4.6.1), Christmas Island Nature Areas and North Keeling Island (Section 4.3.4 and 4.3.5), Scott Reef (Section 4.4.6) and Yampi Defence area (Section 4.6.9).

There are two Indigenous commonwealth heritage places within the PEZ; the Boulder Hill West Area and the Oombalai Area. Both of the sites are located inland of the coastline and therefore have limited potential for interaction with activities (unplanned) associated with this EP.

The Boulder Hill West Area is a formation of boulders with rock paintings on a hill approximately 30 m above the surrounding plain within the Yampi Defence Area approximately 85 km north east of Derby, WA (DCCEEW 2023a). Approximately 60 km north of Derby, WA, is the Oombalai Area. Situated on a hill, a remnant of a previous land surface 1.5 km by 2 km and rising 100 m above the surrounding plain, the Oombalai Aboriginal site has mythological significance and contains a large amount of archaeological material including paintings and engravings (DCCEEW 2023b).

The remaining historic Commonwealth heritage places identified in the EPBC Act Protected Matters database search relate to the Australian external territories of Christmas Island and Cocos (Keeling) Islands. The listed places are predominantly buildings and cemeteries that are located onshore and have limited potential for interaction with activities (unplanned) associated with this EP (Appendix A.1).

#### 4.11.4 Underwater cultural heritage

Underwater cultural heritage sites are recognised as a part of the marine environment ecosystem. Under the *Underwater Cultural Heritage Act 2018* (Cwlth), any shipwrecks, sunken aircraft or other types of cultural heritage over 75 years old are automatically afforded protection. Under this Act, there is also a provision to provide protection zones, that can range from 200 m to 3,200 m radius, surrounding the wrecks. These zones are in place to limit disturbance of the cultural heritage and also the surrounding environment.

A search of the Australasian underwater cultural heritage database (AUCHD) and the WA Museum shipwrecks database identified no wrecks within WA-343-P. However, in the Browse Island area several shipwrecked vessels were identified and include the:

- *Carleton* – sailing (transport) vessel wrecked in 1878

- *Runnymede* – sailing (transport with guano cargo) vessel wrecked in 1878
- *Matterhorn* – sailing (fishing/whaling) vessel wrecked in 1878
- *Sulina* - sailing (transport with guano cargo) vessel wrecked in 1879
- *Berteaux* – sailing (transport with guano cargo) vessel wrecked in 1885
- *Bittern* – unknown vessel type wrecked in 1885
- *Florida* – sailing (schooner) vessel wrecked in 1887.

It is known that Browse Island was mined internationally for guano between 1878-1894 and due to storms, large tides and uncharted reefs, many vessels were lost in the area including sailing and fishing vessels (WAM 2008). Given the age of these shipwrecks the exact locations are unknown and are difficult to confirm. It is therefore possible that shipwrecks may be present in the vicinity of WA-285-P given its proximity to Browse Island. However, no evidence of shipwrecks have been recorded in previous site surveys undertaken by INPEX in either of the permit areas or the adjacent Ichthys development (WA-50-L).

Within the PEZ there are several hundred wrecks including shipwrecks and aircraft. These tend to be clustered around reefs, islands or along the Australian mainland coastline.

Some of the wrecks in the PEZ, those over 75 years old, have automatic protection under the *Underwater Cultural Heritage Act 2018*. However, more modern wrecks such as those used to create artificial reefs are not afforded the same protection under the legislation.

There are three sites within the PEZ that have declared protection zones under the *Underwater Cultural Heritage Act 2018*, as listed below with approximate distances from the permit areas:

- *SS Florence D* (1942) situated at Bathurst Island (approximately 750 km from WA-285-P and 710 km from WA-343-P (800 m radius protection zone) (DCCEEW 2023c)
- *I-124* (1942) situated at Beagle Gulf (approximately 760 km from WA-285-P and 720 km from WA-343-P (800 m radius protection zone) (DCCEEW 2023d)
- *SMS Emden* (1914) situated at the Cocos Keeling Islands approximately 2,900 km from WA-285-P and WA-343-P (500 m radius protection zone) (DCCEEW 2023e).

#### 4.11.5 Aboriginal and Torres Strait Islander heritage

Australian Aboriginal and Torres Strait Islander heritage is recognised as the oldest continuing culture in the world and is central to **Australia's** national heritage (DCCEEW 2023f).

Aboriginal and Torres Strait Islander peoples continuing connection to country is recognised in Australia under both State/Territory and Commonwealth legislation. At a national level, the *Native Title Act 1993* (Cwlth) establishes Native title, which recognises, under Australian common law, pre-existing Indigenous rights and interests according to traditional laws and customs. Native title is different from land rights as it is not a grant or right created by governments (Commonwealth of Australia 2023).



Aboriginal land in the NT is defined by the *Aboriginal Land Rights (Northern Territory) Act 1976* (Cwlth), which affords Traditional Owners sovereign rights to country. In WA, recognition of Aboriginal rights is afforded by the *Native Title Act 1993* (Cwlth) and *Land Administration Act 1997* (WA), which give rights to access, live upon, forage, harvest and hunt upon and carry out traditional cultural practises on country. Three aboriginal land councils represent Aboriginal communities that overlap or are adjacent to the PEZ: the Kimberly Land Council in WA, and the Northern Land Council and Tiwi Land Council in NT. There are also a number of Prescribed Bodies Corporates that represent Aboriginal peoples both in the NT and WA.

Through consultation with many Aboriginal corporations, INPEX understands that exercising native title rights and interests is contingent good management of sea country, so it remains healthy, to ensure the continued connection to country. For example, INPEX were advised of the **Ngarla People's deep spiritual connection to sea country and the importance of the Ngarla People's totem species** - the octopus, stingray, spiny bream fish and kestrel. The protection and management of marine life plays a significant role in the **Ngarla People's practise of lore, culture and customs**.

A search of the National Native Title Tribunal spatial dataset confirmed that Native Title has been determined for the whole of the Kimberley coastline that the PEZ overlaps or is adjacent to the PEZ. In some instances Native Title exists in parts of the determination areas and may extend over land and sea (generally out to 3 nm).

In the NT, where coastal areas of the NT overlap the PEZ, Native Title determinations are limited to an area around Darwin relating to Larrakia people; however, no Native Title is in effect. A Native Title claim has been identified for registration in an area within Lichfield National Park, which incorporates a stretch of coastline that overlaps the PEZ.

#### Culture and connection to country

Aboriginal and Torres Strait Islander peoples have passed down their culture through generations for the past 65,000 years. This is demonstrated by ongoing cultural connections to their country, as well as by archaeological evidence of human occupation dated to be over 65,000 years old.

Historically, Aboriginal people lived in small family groups and were semi-nomadic, with each family group living in a defined territory, systematically moving across a defined area following seasonal changes. Aboriginal people built semi-permanent dwellings; as a nomadic society emphasis was on relationships to family, group and country.

Membership within each family or language group was based on birthright, shared language, and cultural obligations and responsibilities. Groups had their own distinct history and culture and at certain times, family groups would come together for social, ceremonial and trade purposes (WWIA 2023).

According to Aboriginal beliefs, the physical environment of each local area was created and shaped by the actions of spiritual ancestors who travelled across the landscape (WWIA 2023). Songlines are tied to the Australian landscape and provide important knowledge, cultural values and wisdom. Songlines trace the journeys of ancestral spirits as they created the land, animals and lore, and are integral to Aboriginal spirituality and connectedness to country.

Unlike elsewhere in Australia, Aboriginal groups in northern Australia had several centuries of contact with foreign visitors before the arrival of Europeans (National Oceans Office 2004). Many coastal and island regions in WA and the NT were the scene of complex patterns of interaction, trade and exchange with outsiders including Macassan trepangers from Sulawesi from the late 1600s until early 1900s, European mariners from the mid-1600s, and Japanese pearl divers after European arrival (McCarthy et al 2022).

Evidence of visits and interactions between Macassan and Aboriginal people include the remains of stone fireplaces and smoke houses, tamarind trees planted by Macassan people and fragments of earthenware and porcelain. Although not necessarily marine based, Aboriginal and Macassan archaeological places are important to Aboriginal people as part of their continuing culture and identity.

### Sea country and submerged historic landscapes

Over the 65,000 years of Aboriginal occupation of Australia, sea levels have fluctuated, rising from a peak low of -120 m at around 21,000 years ago relative to present levels, which resulted in the inundation of vast areas the continental shelf (Ward et al 2022). Aboriginal and Torres Strait Islander peoples have been sustainably using and managing their sea country for tens of thousands of years, in some cases since before rising sea levels created these marine environments (DNP 2018b).

Sea country or saltwater country refers to the areas of the sea that Aboriginal and Torres Strait Islander peoples are particularly affiliated with. It is an estate of sea as well as land, containing sacred sites and inhabited by ancestral beings, existing in both the physical and spiritual world. Sea country is valued for Aboriginal and Torres Strait Islander cultural identity, health and wellbeing (DNP 2018a, 2018b).

There is a considerable body of literature describing the complexity of the cultural, spiritual, ceremonial, territorial and economic connection between Aboriginal and Torres Strait Islander peoples and the sea.

Although limited baseline surveys of submerged archaeology have been undertaken in Australia to date, submerged archaeological landscapes have recently been identified in WA through combined evidence of terrestrial ecology, coastal and marine geomorphology and sea-level studies (Benjamin et al 2020; McCarthy et al 2022). As some of the oldest dated terrestrial sites have been found in the NT, there is a potential for the existence of submerged landscapes with associated Aboriginal heritage values due to strong cultural connections between Traditional Owners and the sea (McCarthy et al 2022). Such relationships and the connections with sea country transcends the landscape/seascape divide and the sea is not only a physical and temporal space, but also a mental map of ancestral journeys and rituals to nurture and pass on to future generations (Ward et al 2022).

As described in Section 4.3, many AMPs are of important cultural significance with fishing, hunting and the maintenance of Aboriginal heritage through ritual and stories are considered to be important uses of nearshore and adjacent areas (DNP 2018a).

### Aboriginal sacred sites and other recognised heritage places

A search of the WA Department of Planning, Lands and Heritage, Aboriginal Heritage Inquiry System identified 553 registered Aboriginal sites and 383 other heritage places within the PEZ (Appendix A.3). None of these sites or places fall within WA-285-P or WA-343-P as they are predominantly located along the Kimberley coastline or islands adjacent to the WA coastline. Culturally important sites and places identified include a range of ceremonial and mythological sites, camps, quarries, artefacts and manmade structures. Some sites are located inland and therefore have limited potential for interaction with activities (unplanned) associated with this EP. However, some sites located directly on the coast or on offshore islands that have values associated with plant resources, water sources, hunting places/camps and spiritual and cultural history, may be affected in the event of an emergency condition.

A search of the Aboriginal Areas Protection Authority interactive map of 'Regions of Sacred Sites in the NT', identified a number of registered sacred sites within the PEZ (AAPA 2023). These sites are protected under the *Northern Territory Aboriginal Sacred Sites Act 1989* (NT). Four registered sacred sites were identified on the Tiwi Islands, 58 sites in the Daly River region, 206 sites in the Darwin Hinterland and 414 in the Victoria River Basin. Although these regions have coastlines that are either within or adjacent to the PEZ, they also cover large inland areas with limited potential for interaction with activities (unplanned) associated with this EP. However, some sites located directly on the coast or on offshore islands that have values associated with plant resources, water sources, hunting places/camps and spiritual and cultural history may be affected in the event of an emergency condition.

During consultation with the Kenbi Rangers (Appendix B.6) information on land use and access on the Cox Peninsula and Bynoe Harbour was shared with INPEX which included the location of sacred sites within the PEZ.

#### Aboriginal seasonal calendars

Aboriginal and Torres Strait Islander peoples have developed an understanding of the Australian environment over many thousands of years (BOM 2023; CSIRO 2022). Aboriginal knowledge of the seasons is highly localised and unique to each Aboriginal group. As such, the number of seasons recognised in an annual cycle, the length of each season, and how they are locally defined and understood, differs a lot depending on where the seasonal knowledge of Country has developed (CSIRO 2022).

Within specific seasons certain activities occur; these include customary activities such as ceremonies and burn offs. Resource availability is also influenced by season such as the flowering of certain plants identifying when eggs are available for collection or specific bird calls which indicate that yams are ready to eat (BOM 2023).

Some examples of specific traditional activities that may occur in the PEZ that are influenced by season include:

- On the Tiwi Islands, turtles are collected whenever possible, although Jamutakari (wet season; December to February) seems to be the most fruitful time (TLC 2023). Crested terns also lay eggs towards the end of Jamutakari which are collected for food (TLC 2023).
- The Yawuru (Broome) calendar shows that during Barrgana (cold season; June to August) fish traps are used to catch salmon and mullet and dugong are also hunted (BOM 2023). Whereas in Laja (hot season; September to November) turtle eggs are collected, and stingrays hunted to provide food (BOM 2023)
- The Wunambal Gaambera (Unguu coast, Kimberley) calendar shows that Yurrma (cold season; May to August) is the burning season which influences resource availability for the forthcoming seasons (Wunambal Gaambera Aboriginal Corporation 2010; Wunambal Gaambera Aboriginal Corporation 2017)
- The Mayala (Buccaneer archipelago/West Kimberley) seasonal calendar shows fishing occurs in Barrgana (May to July) and turtle nesting in Jalalay (July to October) (Mayala Inninalang Aboriginal Corporation RNTBC 2019)
- The Bardi seasonal calendar shows that turtle eggs are collected during the wet season (Mankal; January to February) and dugong hunting occurs during Barrgan (May to August). Jalalay (September to October) marks the end of dugong hunts and the best time to catch stingray.

## Traditional use of resources

Traditional fishing occurs along the majority of the Kimberley and NT coastline. The practice of traditional fishing includes taking turtles, dugong, fish and other marine life (DCCEEW 2023g), with traditional fishing methods consisting of the use of lines, hand collection, nets and spears (National Oceans Office 2004). Several IPAs are found within the PEZ where it can be expected that traditional fishing activities will occur. Within the Northern Land Council region, **approximately 55% of the NT's coastline** is owned by Traditional Aboriginal Owner groups. These areas support a range of economies and livelihoods and contain many iconic fishing areas (NLC 2021).

A National Recreational and Indigenous Fishing Survey undertaken in 2000, reported that the greatest fishing effort focused on saltwater environments, including estuarine, coastal, inshore (less than 5 km from the coast) and offshore (greater than 5 km from the coast) with line fishing and hand gathering being the two most common fishing methods (National Oceans Office 2004). Data collected during the survey in 2000, showed that offshore fishing activities represented only 2% of total indigenous fishing effort with inshore (49%), coastal (23%), rivers (16%) and lakes/dams (10%) being more common (National Oceans Office 2004).

The traditional harvesting of marine resources (e.g. turtles, whale sharks and dugong) adjacent to the NWMR is a pressure of potential concern for the carbonate bank and terrace system of the Sahul Shelf, the pinnacles of the Bonaparte Basin, and the Commonwealth waters surrounding Ashmore Reef and Cartier Island (DSEWPac 2012a).

As stated in Section 4.3 and 4.4, several Aboriginal groups have responsibility for managing sea country in areas covered by the PEZ where they have deep spiritual connections to offshore landscapes and harvest marine resources for food and cultural purposes. Fish are a staple food source, and fishing a form of cultural expression, connecting people to their country modelled on tradition and based in traditional law (DNP 2018a).

## 4.12 Socio-economic environment

### 4.12.1 Fishing

Commercially significant fish stocks, considered to be key indicator species, that may be present in WA-285-P and WA-343-P are shown in Table 4-6, including spawning and aggregation times. These species may be present in the permit areas; however, given the water depth and absence of suitable habitats they are considered not likely to spawn or aggregate in the deep waters of WA-285-P or WA-343-P. Preferred spawning and aggregation areas for these species include shallow coastal habitats, reefs and headlands and around estuaries.

Table 4-6: Commercially significant fish species

Key commercial fish species	Spawning/aggregation times
Goldband snapper ( <i>Pristipomoides multidens</i> )	Goldband snapper typically occur in 50–200 m water depths, and often concentrated in depths from 80–150 m. They spawn throughout their range (rather than aggregating at specific locations) during November to May (extended peak spawning period).
Narrow-barred spanish mackerel ( <i>Scomberomorini commerson</i> )	Spanish mackerel occur in continental shelf waters and congregate in coastal waters around reefs, shoals and headlands to feed and spawn, occurring typically in water depths from 1-50 m. They form spawning schools around inshore reefs with peak spawning period of September to January.
Rankin cod ( <i>Epinephelus multinotatus</i> )	Rankin cod typically occur in water depths of 10–150 m. They spawn throughout their range (rather than aggregating at specific locations) during June to December and March (peak spawning period August to October).
Red emperor ( <i>Lutjanus sebae</i> )	Red emperor typically occur in 10–180 m water depths, and are often concentrated in depths from 60–120 m. They spawn throughout their range (rather than aggregating at specific locations) during September to June (with bimodal peaks from September to November and January to March).
Bluespotted emperor ( <i>Lethrinus erythracanthus</i> )	Blue spotted emperor typically occur in water depths of 5–110 m. They spawn throughout their range (rather than aggregating at specific locations) during July to March (extended peak spawning period).
Southern bluefin tuna ( <i>Thunnus maccoyii</i> )	<p>Southern bluefin tuna constitutes a single, highly migratory stock that spawns between September to April in the north-east Indian Ocean (off north-western Australia, around Christmas and Cocos islands, south of Indonesia) with juveniles then migrating southwards down the west coast of Australia (Patterson et al. 2022) generally associated with coastal and continental shelf waters (AFMA 2022d).</p> <p>Southern bluefin tuna are pelagic species that can be found to depths of 500 m. Spawning is reported to occur in surface waters with surface water temperatures usually exceeding 24 °C (Patterson et al 2008). It is thought that these surface waters may be necessary for the survival of eggs and larvae (Davis &amp; Farley 2001).</p>

#### Commercial fisheries– Australian waters and external Australian territories

Within the PEZ, five Commonwealth-managed fisheries have the potential to operate, with three of these overlapping both WA-285-P and WA-343-P, as summarised in Table 4-7.

In addition to the Commonwealth-managed fisheries, 38 State/Territory-managed commercial fisheries have the potential to operate within the PEZ. Of these, five fishery boundaries overlap with the permit areas (Table 4-8). Fisheries highlighted in bold in the below tables have potential fishing grounds that overlap with WA-285-P and WA-343-P. This does not mean that they are currently active within the exploration permit area; however, there is a potential that they may be active in the future.

Table 4-7: Commonwealth-managed commercial fisheries (AFMA-managed)

Commercial fishery (BOLD denotes overlap with permit areas)	Fishery summary
North West Slope Trawl Fishery	<p>The North West Slope Trawl Fishery targets scampi (<i>Metanephrops australiensis</i>) and deepwater prawn. The fishery is located in deep water from the coast of the Prince Regent National Park to Exmouth between the 200 m depth contour to the outer limit of the Australian Fishing Zone (AFMA 2022a; Patterson et al. 2021).</p> <p>Six vessels operated in the 2019–20 season with a total catch of 111.5 tonnes, up from 67.4 tonnes in 2018–19. Scampi made up approximately 65% of the total catch in 2019–20, with the rest made up of various finfish and other crustaceans (Patterson et al. 2021). It is the only active fishery in the vicinity of WA-285-P and WA-343-P, with reportedly low negligible trawl-fishing in the Ichthys field. The highest levels of fishing intensity (hours per km<sup>2</sup>) are undertaken approximately 350 km to the south-west of the permit areas.</p>
Western Tuna and Billfish Fishery	<p>The Western Tuna and Billfish Fishery (WTBF) targets bigeye tuna (<i>Thunnus obesus</i>), yellowfin tuna (<i>Thunnus albacares</i>), broadbill swordfish (<i>Xiphias gladius</i>) and striped marlin (<i>Tetrapturus audax</i>). The fishery targets areas of reef which are present within the PEZ and mainly use longline fishing gear to catch the targeted species.</p> <p>The Billfish Fishery covers the sea area west from the tip of Cape York in Queensland, around WA, to the border between Victoria and South Australia. Fishing occurs in both the Australian Fishing Zone and adjacent high seas. In recent years, fishing effort has concentrated off south-west WA (Patterson et al. 2021) with no fishing occurring near the permit areas.</p> <p>The fishery also includes the waters surrounding Christmas Island and the Cocos (Keeling) Islands. Fishing for tuna and tuna-like species in waters outside 12 nm of the Christmas Island and Cocos (Keeling) <b>Islands' fisheries is managed by DPIRD under the</b> Western Tuna and Billfish Fishery Management arrangements (AFMA 2021).</p> <p>In the fishery there are currently 93 vessels with statutory fishing rights (confirmed by Tuna Australia). The WTBF is a productive fishery with a long history of sustained fishing effort <b>until the early 2000's. At</b> its peak, there were up to 6 million hooks set per year by up to 50 active boats. However, since 2005 fewer than 5 vessels have been active in the fishery each year (Patterson et al. 2021).</p> <p>Tuna Australia informed INPEX that a consortium of WTBF concession owners aim to fish key NW grounds from late 2023 onwards using specialized ultra-low temperature fishing vessels, including in areas in and adjacent to the proposed exploration drilling area.</p>
Western Skipjack Tuna Fishery	<p>The Western Skipjack Tuna Fishery covers the waters surrounding WA out to 200 nm from the coast. The fishery targets the skipjack tuna (<i>Katsuwonus pelamis</i>) and employs the purse seine, pole and line, and longline methods as its techniques. Although 14 permits are in place, and some license holders are members of the industry association, Tuna Australia, the fishery is not currently active with no fishing in the Western Skipjack Tuna Fishery since 2008/2009 (AFMA 2022c; Patterson et al. 2021).</p>

Commercial fishery (BOLD denotes overlap with permit areas)	Fishery summary
Southern Bluefin Tuna Fishery	<p>The Southern Bluefin Tuna Fishery covers Australian waters out to 200 nm from the coast and includes the whole Australian EEZ, therefore the fishery overlaps both of the permit areas and the PEZ. There are 84 statutory fishing right owners in the fishery. This fishery is managed under a quota system to ensure the species is not subject to overfishing. The SBT is a mixed method fishery, with purse seine, longline and minor line methods all used. The purse seine sector targets school fish to grow out in ocean cages, while adult fish are targeted by the longline sector. Commercial fishers mainly use the purse seine fishing method to catch southern bluefin tuna (<i>Thunnus maccoyii</i>) between December and February each year, with the fish being towed closer inshore and transferred to permanent floating pontoons. Since 2011, most fishing has occurred in the east of the Great Australian Bight, closer to Port Lincoln, resulting in shorter towing distances to bring the fish to aquaculture farms for growing before harvest (Patterson et al. 2021). The major landing port is Port Lincoln in South Australia (AFMA 2022d) and therefore does not overlap the PEZ or either permit area. No catch is taken from the NWS. All current SBT longline effort occurs on the east coast of Australia and around Tasmania. Longline fishing for SBT generally starts from May – October. Over 1020 tonnes of SBT were caught on longline in 2022. However, this activity does not overlap the permit areas or the PEZ.</p> <p>Southern bluefin tuna constitutes a single, highly migratory stock that spawns between September to April in the north-east Indian Ocean (off north-western Australia, around Christmas and Cocos islands, south of Indonesia) with juveniles then migrating southwards down the west coast of Australia (Patterson et al. 2022).</p> <p>Tuna Australia informed INPEX that there is concentrated foreign effort immediately outside the Australian EEZ both in the south west of WA and on the high seas below Christmas Island and the Cocos (Keeling) Islands. These boats target the SBT spawning aggregation, and the area where some SBT branch off in their migration to South Africa at the intersection of the Leeuwin and Flinders currents.</p>
Northern Prawn Fishery	<p>The Northern Prawn Fishery targets banana prawns (<i>Fenneropenaeus merguensis</i>, <i>F. indicus</i>) tiger prawns (<i>Penaeus esculentus</i>, <i>P. semisulcatus</i>) and endeavour prawns (<i>Metapenaeus endeavouri</i>, <i>M. ensis</i>) in northern Australian waters (Patterson et al. 2021). The fishery occasionally operates from Cape York in Queensland to Cape Londonderry in WA and is predominantly active in the shallower waters of the PEZ with the highest catches taken offshore from mangrove forests, which act as juvenile nursery areas (Patterson et al. 2021). The fishery does not overlap WA-285-P or WA-343-P.</p> <p>To manage the fishery, there are 2 fishing seasons (April–June and August–November). There are currently 52 vessels with fishing rights in the fishery (maximum number vessels at one time) and bottom trawl fishing gear is used in this fishery (AFMA 2022e). Total catch in 2020 was 4,767 tonnes, comprising 4,653 tonnes of prawns and 114 tonnes of byproduct species (predominantly squid, bugs and scampi) (Patterson et al. 2021).</p>

Table 4-8: State/Territory-managed commercial fisheries (WA DPIRD/NT DITT)

Commercial fishery (BOLD denotes overlap with permit areas)	Fishery summary
Northern Demersal Scalefish Managed Fishery (WA) Area 2 (Area 2 overlaps PEZ and permit areas, Area 1 overlaps PEZ only)	The Northern Demersal Scalefish Managed Fishery is primarily a trap-based fishery which targets red emperor ( <i>Lutjanus sebae</i> ) and gold band snapper ( <i>Pristipomoides multidens</i> ). The fishery operates off the north-west coast of WA in the waters east of longitude 120°E and overlaps the PEZ. There are currently 11 licences in Area 2 and the value of the fishery is estimated at \$5-10 million (Gaughan & Santoro 2021). Between 2016 and 2020, no fishing activity occurred in the fishery directly over the permit areas; however, Fish Cube data confirmed that activity did occur in blocks adjacent to WA-285-P.
Mackerel Managed Fishery (WA) Area 1 (Area 2 overlaps PEZ but not permit areas)	The Mackerel Managed Fishery uses near-surface trolling gear from vessels in coastal areas around reefs, shoals and headlands (WAFIC 2022a). The fishery targets narrow-barred Spanish mackerel ( <i>Scomberomorus commerson</i> ) and lands over 80% of the annual large pelagic catch in WA. There are currently 48 licences in the fishery with 14 active in the Kimberley area (Area 1) (Gaughan & Santoro 2021).
North Coast Shark Fishery (Cwlth/WA) Northern Zone (Southern Zone overlaps PEZ but not permit areas)	<p>This fishery is managed by the Western Australia Fisheries Joint Authority. For reporting and assessment purposes, the Joint Authority Northern Shark Fishery (JANSF) is combined with the adjacent (state-managed) Western Australia North Coast Shark Fishery (WANCSF) and reported as part of the northern shark fishery (Patterson et al. 2021).</p> <p>In 2005, management measures were put in place in the WANCSF and the JANSF due to unsustainable fishing mortality levels of sandbar shark (<i>Carcharhinus plumbeus</i>) (McAuley et al. 2015 cited in Patterson et al. 2021). These included closure of about 60% of the WANCSF to protect breeding stock and limits on the permitted number of fishing days. Management arrangements to limit effort were established in the JANSF. These measures resulted in a substantial decline in total fishing effort and an associated decrease in total reported catch. Fishing activity has not been reported in the JANSF since 2008–09 (Patterson et al. 2021).</p>
Pearl Oyster Managed Fishery (WA) Zone 3 (Zones 1,2 and 4 overlap PEZ but not permit areas)	The WA Pearl Oyster Managed Fishery is the only remaining significant wild-stock fishery for pearl oysters in the world. It is a quota-based, dive fishery operating in the shallow coastal waters along the NWS (WAFIC 2022b). The main fishing grounds (Zone 2) are off Eighty Mile Beach (Gaughan & Santoro 2021). In 2019, the catch was taken in Zone 2 only with no fishing in Zones 1 or 3. The number of wild-caught pearl oysters was 611,816 harvested over 14,022 dive hours (Gaughan & Santoro 2021).



Commercial fishery (BOLD denotes overlap with permit areas)	Fishery summary
<b>West Coast Deep Sea Crustacean Fishery (WA)</b>	The West Coast Deep Sea Crustacean Fishery operates using baited pots in a long-line formation in the shelf edge waters > 150 m depth (Gaughan & Santoro 2021). The catch in 2019 was 153.2 tonnes dominated by crystal (snow) crabs ( <i>Chionoecetes opilio</i> ) with the majority sold live to Asian markets (Gaughan & Santoro 2021).
Trochus Fishery (WA)	The Trochus Fishery is a small fishery based on a single target species ( <i>Trochus niloticus</i> ) harvested by hand from King Sound and the Buccaneer Archipelago. The fishery is operated by the Bardi Jawi and Mayala Aboriginal communities (Gaughan & Santoro 2021). Trochus are found on reef tops and are harvested at low tide. The annual harvest in the past decade has ranged between 2 and 15 tonnes with the product sold locally and overseas (WAFIC 2022c).
Kimberley Prawn Managed Fishery (WA)	The Kimberley Prawn Managed Fishery predominantly target banana prawns ( <i>Penaeus merguensis</i> ) and catch also includes tiger prawns ( <i>Penaeus esculentus</i> ), endeavour prawns ( <i>Metapenaeus endeavouri</i> ) and western king prawns ( <i>Penaeus latisulcatus</i> ). The fishery operates from the north eastern boundary of the Exmouth Gulf Prawn Fishery to Cape Londonderry, in the PEZ (WAFIC 2022d). In 2019 the total prawn landings were 100 tonnes the lowest catch on record (Gaughan & Santoro 2021).
Specimen Shell Managed Fishery (WA)	The Specimen Shell Managed Fishery is based on the collection of individual shells for the purposes of display, collection, cataloguing, classification and sale. Approximately 200 different species of Specimen Shell are collected generally by hand in shallow coastal waters (Gaughan & Santoro 2021). The fishery currently has 31 licences with a maximum of 4 divers allowed in the water per licence at any one time. Total catch in 2019 was 7,232 shells. While the fishery covers the entire WA coastline, there is some concentration of effort in areas adjacent to population centres in the PEZ such as Broome.
South West Coast Salmon Managed Fishery (WA)	South West Coast Salmon Managed Fishery targets WA salmon ( <i>Arripis truttaceus</i> ) and in 2019 the total catch was 147.8 tonnes using beach seine nets (Gaughan & Santoro 2021).  In 2015 and 2016 very large schools of salmon were observed in south-western waters and as far north as Exmouth, which is further north than ever previously reported.
North Coast Crab Fishery (Including Kimberley Crab and Pilbara Crab) (WA)	The North Coast Crab Fishery is a trap-based fishery which targets blue swimmer crabs ( <i>Portunus pelagicus</i> ) in the Pilbara (the Pilbara Crab Managed Fishery) and mud crabs ( <i>Scylla serrata</i> ) in the Kimberley (the Kimberley Crab Managed Fishery). Catch rates in 2019 were 19.3 tonnes for blue swimmer crabs and 7.4 tonnes for mud crabs (Gaughan & Santoro 2021).

Commercial fishery (BOLD denotes overlap with permit areas)	Fishery summary
Marine Aquarium Fish Fishery (WA)	This Marine Aquarium Fish Fishery is typically more active in coastal waters south of Broome with higher levels of effort around the Capes region, Perth, Geraldton, Exmouth, Dampier and Broome (Gaughan & Santoro 2021). The fishery resource includes more than 1,500 species of marine aquarium fishes under the <i>Marine Aquarium Fish Managed Fishery Management Plan 2018</i> . Operators are also permitted to take coral, live rock, algae, seagrass and invertebrates. Ten out of twelve licences were active in 2019 with a total catch of 69,446 fishes, predominantly the Scribbled Angelfish ( <i>Chaetodontoplus duboulayi</i> ) (Gaughan & Santoro 2021).
Hermit Crab Fishery (WA)	The Hermit Crab Fishery specifically targets the Australian land hermit crab ( <i>Coenobita variabilis</i> ) for the domestic and international live pet trade. The fishery operates throughout the year and is one of two land-based commercial fisheries in WA. The fishery is currently permitted to fish in waters north of Exmouth Gulf. There was only one active licence in 2019 with a total catch of < 60,000 crabs (Gaughan & Santoro 2021).
Broome Prawn Managed Fishery (WA)	In 2019, extremely low fishing effort occurred in the Broome Prawn Managed Fishery as only one boat undertook trial fishing to investigate whether catch rates were sufficient for commercial fishing. This resulted in negligible landings of western king prawns ( <i>Penaeus latisulcatus</i> ) (Gaughan & Santoro 2021).
Abalone Managed Fishery (WA) Northern Zone/Area 8 overlaps PEZ	<b>The Abalone Managed Fishery includes the West Coast Roe's Abalone (<i>Haliotis roei</i>) resource and the South Coast Greenlip (<i>H. laevigata</i>) / Brownlip (<i>H. conicopora</i>) Abalone resource. Roe's abalone is found in commercial quantities from the South Australian/ WA border to Shark Bay. The commercial fishery harvest method is a single diver working off a 'hookah' (surface-supplied breathing apparatus) using an abalone 'iron' to prise the shellfish off rocks (WAFIC 2022e). The fishery operates in shallow coastal waters coinciding with abalone distributions (Gaughan &amp; Santoro 2021). Although the area of the fishery overlaps the permit areas, no fishing effort occurs there given the water depth, water temperature and lack of suitable habitat.</b>
Nickol Bay Prawn Managed Fishery (WA)	The Nickol Bay Prawn Managed Fishery operates along the western part of the NWS and predominantly target banana prawns ( <i>Penaeus merguensis</i> ) (WAFIC 2022d). Total catch in 2019 was 254 tonnes of which 216 tonnes were banana prawns (Gaughan & Santoro 2021).

Commercial fishery (BOLD denotes overlap with permit areas)	Fishery summary
Pilbara Trap Managed Fishery and Pilbara Fish Trawl Interim Managed Fishery (WA)	The main species landed by the Pilbara Trap Managed Fishery and Pilbara Fish Trawl Interim Managed Fishery are blue spotted emperor ( <i>Lethrinus punctulatus</i> ), red emperor ( <i>Lutjanus sebae</i> ) and rankin cod ( <i>Epinephelus multinodeatus</i> ). Of the total commercial catches of demersal scalefish in the Pilbara in 2019 (2,980 tonnes), 72% (2,152 tonnes) were landed by the trawl sector and 23% (680 tonnes) taken by the trap sector with the remaining 5% (148 tonnes) taken by the line sector – see below Pilbara Line Fishery (Gaughan & Santoro 2021).
Pilbara Line Fishery (WA)	The Pilbara Line Fishery uses a drop line fishing method. The fishery is made up of 9 fishing boat licences allowing them to fish for any nominated 5-month block period during the year (WAFIC 2022f). The indicator species blue spotted emperor ( <i>Lethrinus punctulatus</i> ), red emperor ( <i>Lutjanus sebae</i> ) and rankin cod ( <i>Epinephelus multinodeatus</i> ) and ruby snapper ( <i>Etelis carbunculus</i> ) are used to assess stock status. In 2019, 148 tonnes were landed. (Gaughan & Santoro 2021).
Kimberley Gillnet and Barramundi Fishery (WA)	The Kimberley Gillnet and Barramundi Fishery extends from the WA/NT border to the northern end of Eighty Mile Beach, covering the river systems and tidal creek systems of the Cambridge Gulf, the Ria coast of the northern Kimberley, King Sound (Gaughan & Santoro 2021). The fishery targets barramundi ( <i>Lates calcarifer</i> ) and is limited to four licences. Fishing is now prohibited between the southern boundary to north of Willie Creek and in King Sound. Barramundi catch in 2019 was 47 tonnes comprising 64% of the fishery total catch with the remainder comprising of Threadfin, Tripletail, Black Jewfish and sharks (Gaughan & Santoro 2021).
Onslow Prawn Managed Fishery (WA)	The Onslow Prawn Fishery predominantly targets banana prawns ( <i>Penaeus merguianus</i> ) but also catches tiger prawns ( <i>Penaeus esculentus</i> ), endeavour prawns ( <i>Metapenaeus endeavouri</i> ) and western king prawns ( <i>Penaeus latisulcatus</i> ) (WAFIC 2022d). Area 3 of the fishery slightly overlaps the PEZ; however, areas trawled in 2019 do not overlap the PEZ with total landings in 2019 less than 50 tonnes undertaken by one boat over 28 days of fishing effort (Gaughan & Santoro 2021).
Sea Cucumber Fishery (WA)	Two key species targeted by the Sea Cucumber Fishery are sandfish ( <i>Holothuria scabra</i> ) and redfish ( <i>Actinopyga echinites</i> ). They are collected by hand predominantly through diving, and to a lesser extent by wading, in shallow waters from Exmouth Gulf to the Northern Territory border (DPIRD 2018). The sea cucumber resource is commonly referred to as beche-de-mer or trepang. The fishery is permitted to operate throughout WA waters, with the exception of several permanently closed areas. The total annual catch of sea cucumbers in the Sea Cucumber Fishery has ranged between 0 (due to the rotational harvesting approach) and 252 tonnes live weight in the last 10 years (DPIRD 2018).

Commercial fishery (BOLD denotes overlap with permit areas)	Fishery summary
Timor Reef Fishery (NT)	The Timor Reef Fishery primarily targets the higher-valued gold-band snapper ( <i>Pristipomoides multidens</i> ) and other <i>Pristipomoides</i> species. Significant quantities of red snappers ( <i>Lutjanus malabaricus</i> , <i>L. erythropterus</i> ), red emperors ( <i>L. sefcae</i> ) and cods (Family Serranidae) are also harvested. In 2018, 382 tonnes of gold-band snapper and 391 tonnes of red snapper were landed (AFMA 2022f). The fishery operates from north-east of Darwin to the WA/NT border and to the outer limit of the Australian Fishing Zone (NTSC 2022a).
Demersal (multigear) Fishery (NT)	The Demersal (multigear) Fishery targets mainly red snappers ( <i>Lutjanus malabaricus</i> , <i>L. erythropterus</i> ) and gold-band snappers ( <i>Pristipomoides spp.</i> ). Drop lines, traps and trawl are the main gear types used in the fishery and catch data recorded 2526 tonnes of red snapper landed in 2018 (AFMA 2022f). The fishery extends 15 nm from the LWM to the outer boundary of the Australian Fishing Zone (NTSC 2022b).
Barramundi Fishery (NT)	The Barramundi Fishery extends from the high water mark out to 3 nm and targets barramundi ( <i>Lates calcarifer</i> ) and king threadfin ( <i>Polydactylus macrochir</i> ) using gillnets, with the season running from 1 February to 30 September. The area covered by the fishery covers some parts of the PEZ; namely, around the Tiwi Islands. According to the Northern Territory Seafood Council (NTSC), many areas are excluded from the fishery defined by fishery closure lines, protection zones and various National Parks and MPs (NTSC 2022c).
Bait Net Fishery (NT)	Commercial fishers within the Bait Net Fishery are allowed to take all fish for use as bait except barramundi, threadfin salmon, Spanish mackerel or mud crab. Commercial fishing for bait is allowed from the high-water mark to the 3 nm seaward of the LWM but excluding Darwin Harbour and Shoal Bay. The fishery is currently restricted to two licences which are both allocated (NTG 2022a).
Coastal Net Fishery (NT)	The Coastal Net Fishery targets a range of species, particularly mullet ( <i>Mugil spp.</i> ), blue threadfin ( <i>Eleutheronema tetradactylum</i> ), shark and queenfish ( <i>Scomberoides commersonianus</i> ). As with the Coastal Line Fishery, the Coastal Net Fishery operates inshore, extending from the high-water mark out to 3 nm. There are five current licences with mullet being the primary species taken in the fishery (NTG 2022b).

Commercial fishery (BOLD denotes overlap with permit areas)	Fishery summary
Coastal Line Fishery (NT)	The NT Coastal Line Fishery mainly targets black jewfish ( <i>Protonibea diacanthus</i> ) and golden snapper ( <i>Lutjanus johnii</i> ). The fishery extends along the NT coast between the high-water mark and 15 nm out from the LWM (NTG 2022c). The western zone extends from the WA border to the Cobourg Peninsula. It is restricted to 52 licences. The main species taken are black jewfish and golden snapper with the total catch limited to 145 tonnes and 4.5 tonnes respectively (NTG 2022c)
Trepang Fishery (NT)	The NT Trepang Fishery area extends from the NT high-water mark out to 3 nm. There are 6 licences in the Trepang Fishery, with only one or two boats active over the past few years. Trepang are typically harvested by hand from the intertidal and subtidal zones within the PEZ. The main species targeted is the sandfish ( <i>Holothuria scabra</i> ), commonly found in coastal areas with soft sediments and seagrass beds (NTSC 2022d).
Aquarium Fishery (NT)	The Aquarium Fishery extends from the NT inland estuarine and marine waters out to the outer boundary of the Australian Fishing Zone, excluding Aboriginal sacred sites and other closed areas. The fishery targets freshwater and marine species including fish, plants and invertebrates using hand collections or small scoop nets. In 2016, there were 11 licences with only 3 boats active. (NTSC 2022f).
Jigging Fishery (NT)	The Jigging Fishery is currently closed.
Mollusc Fishery (NT)	The Mollusc Fishery operates in intertidal waters from the high-water mark out to the low water mark. Molluscs are collected by hand and only shellfish can be taken with no collection of pearl oysters or cephalopods allowed. There is only one commercial licence allocated by the NT Government (NTG) (NTG 2022d).
Mud Crab Fishery (NT)	The Mud Crab Fishery targets mud crabs ( <i>Scylla serrata</i> ). The fishery operates in NT tidal waters year-round but most activity stops during the wet season (NTSC 2022g). As of 2016, 49 licences were active across 35 operators, with most working from a single dinghy (NTSC 2022g).
Offshore Net and Line Fishery (NT)	The Offshore Net and Line Fishery targets blacktip sharks ( <i>Carcharhinus tilstoni</i> , <i>C. limbatus</i> and <i>C. sorrah</i> ) and grey mackerel ( <i>Scomberomorus semifasciatus</i> ) (AFMA 2022f). The fishery extends from the NT high water mark out to the Australian Fishing Zone. However, most fishing occurs in the coastal zone within 12 nm of the coast, and immediately offshore in the Gulf of Carpentaria (NTG 2022e). The 2018 landings comprised of 42 and 499 tonnes of blacktip sharks and grey mackerel respectively (AFMA 2022f).

Commercial fishery (BOLD denotes overlap with permit areas)	Fishery summary
Pearl Oyster Fishery (NT)	The Pearl Oyster Fishery extends from the NT high water mark to the outer boundary of the Australian Fishing Zone. A total of 138,000 oysters can be collected by hand only each year (NTG 2022f). There are currently 5 licences in the fishery.
Spanish Mackerel Fishery (NT)	The Spanish Mackerel Fishery targets narrow-barred Spanish mackerel ( <i>Scomberomorus commerson</i> ) within Territory waters from the high-water mark out to the outer boundary of the Australian Fishing Zone; however, most effort is generally focused around reefs, headlands and shoals. The fishery is restricted to 15 licences and most Spanish mackerel are caught off the western and eastern mainland coasts and near islands including Bathurst Island in the PEZ (NTG 2022g).
Small Pelagic Developmental Fishery (NT)	The Small Pelagic Developmental Fishery targets Blacktip sharks ( <i>Carcharhinus tilstoni</i> , <i>C. limbatus</i> and <i>C. sorrah</i> ). There are currently three active licences with a commercial catch of 0.1 tonnes reported in 2017 (NTG 2019).
Fishing Tour Operator Fishery (NT)	Commercial fishing tour operators are managed by the NTG and operate under specific licence conditions including reporting of catch and effort statistics. The fishery operates in non-tidal and tidal NT waters to the outer limit of the Australian Fishing Zone generally in areas that are accessible to the general public. They predominately operate near to population centres. The most common species include barramundi, golden snapper, stripey snapper, saddletail snapper and grass emperor caught primarily using hook and line (NTG 2019).
Cocos (Keeling) Islands Marine Aquarium Fish Fishery	The Cocos (Keeling) Islands Marine Aquarium Fishery covers waters of the Australian Fishing Zone within the 12 nm territorial waters of Cocos (Keeling) Islands, excluding the waters of North Keeling National Park and the AMP. The fishery is managed by WA DPIRD and is the only regulated fishery operating within the 12 nm boundary around the Cocos (Keeling) Islands (Hourton 2010). The target species is the Yellowheaded Angelfish ( <i>Centropyge jocularis</i> ) which is endemic to the Cocos (Keeling) Islands and Christmas Island (Gaughan & Santoro 2021). The angelfish are collected using hand or scoop net or seine net of specific dimensions. There is only one licence issued for the fishery and catch data is not reportable due to confidentiality provisions (Gaughan & Santoro 2021).
Christmas Island Line Fishery	The Christmas Island Line Fishery operates within the 12 nm territorial waters of Christmas Island and is managed by WA DPIRD on behalf of the Commonwealth government. The fishery primarily targets pelagic species, mainly wahoo ( <i>Acanthocybium solandri</i> ) and yellowfin tuna ( <i>Thunnus albacares</i> ) however demersal fishing activities are also undertaken for mainly deepwater snappers (Gaughan & Santoro 2021).

Commercial fishery (BOLD denotes overlap with permit areas)	Fishery summary
	The commercial catch for the fishery usually consists of catch data from only two vessels and the exact catch data in many years is not reportable due to confidentiality provisions. The total reported catch for this fishery has been less than 10 tonnes per annum over the last ten years (Gaughan & Santoro 2021).

### Commercial fisheries – International waters

Within the international waters of the PEZ, Indonesian capture fisheries contribute **significantly to the national economy's income, foreign exchange, and employment**. In 2010, the industry produced 5.4 million tons of fish. To manage the fishery areas, the **Indonesian government established 11 fishery management areas covering Indonesia's territorial sea and EEZ** (ADB 2014).

Although there are 11 fisheries management areas, lack of enforcement and lack of awareness of the need for sustainable fisheries management have resulted in the degradation of fish stocks in several areas. The use of unsuitable fishing gear has further declined fish stocks in certain areas, especially the coastal zone, which is exploited by 85% of Indonesian fishers. Additionally, foreign fleets threaten fisheries, although it is difficult to obtain accurate data on the number of vessels and their mode of operations (ABD 2014).

As described in Section 4.5.1 approximately 65% of the East Nusa Tenggara regional fisheries production comes from the Savu Sea (Perdanahardja & Lionata 2017) where unsustainable fisheries practices are known to pose a threat to marine fauna in the region.

### Recreational fishing

There is no evidence that recreational fishing occurs within WA-285-P or WA-343-P due to the distance from land and a lack of features of interest. A wide range of recreational activities do occur within the NWMR and NMR. Recreational fishing activities peak in winter and are concentrated in coastal waters along the Kimberley and NT coastlines, generally around the population centres of Broome, Wyndham and Darwin. Fishing charters operate along parts of the mainland coast, including some locations within the PEZ, such as the Tiwi Islands and Flat Top Bank, all of which are readily accessible from Darwin. Some of the recreationally important species of the coastal areas include barramundi (*Lates calcerifer*), mangrove jack (*Lutjanus argentimaculatus*), jewfish (*Argyrosomus hololepidotus*) and bream.

Fishing methods typically involve rod and line gear and approximately three quarters of fish caught by fishing tour operators are released (NTG 2019). While the survivorship of released barramundi is high, the same is not true for reef-associated species, such as golden snapper and black jewfish. Both species are susceptible to pressure-induced injuries (barotrauma), with the rate of injury and post-release mortality proportional to capture depth. Concerns regarding the impacts of barotrauma on reef fishes (and other factors) have led to the development of new management controls on the harvest of these species (NTG 2019).

Offshore islands, coral reef systems and continental shelf waters are increasingly targeted by fishing-based charter vessels (Gaughan & Santoro 2021). Extended fishing charters are known to operate during certain times of the year to fishing spots off the WA and NT coast, including Scott Reef, Tiwi Islands and Flat Top Bank.

Christmas Island and the Cocos (Keeling) Islands are popular tourist destinations for recreational fishing, snorkelling, and diving. Recreational and artisanal fishing are undertaken around the Cocos (Keeling) and Christmas Islands targeting both finfish and invertebrate species (Gaughan & Santoro 2021). Christmas Island recreational boat fishers troll for pelagic species including wahoo (*Acanthocybium solandri*), dog tooth tuna (*Gymnosarda unicolor*), yellowfin tuna (*Thunnus albacares*) and mahi mahi (dolphin fish) (*Coryphaena hippurus*) (DoF 2007). Recreational boat fishers target the near-shore waters around the Island by trolling using surface lures for giant trevally. Shore-based fishing is also popular with fishers mostly targeting rainbow runner (*Elagatis bipinnulata*) and giant trevally (*Caranx ignobilis*) off the rocky shoreline. Free diving for rock lobster is also a popular fishing activity on the limited fringing reefs around Christmas Island (DoF 2007).

#### Indonesian traditional fishing

The Australian and Indonesian governments signed a memorandum of understanding (MoU) in 1974 (DSEWPaC 2012a) which permits fishing by Indonesian and Timorese fishers, using traditional fishing methods only, in an area of Australian waters in the Timor Sea. The MoU area, which **has become known as the "MoU Box", covers Scott Reef and its surrounds, Seringapatam Reef, Browse Island, Ashmore Reef, Cartier Island and various banks and shoals** (Figure 4-2).

The MoU requires fishers to use traditional sail-powered fishing vessels and non-motorised equipment, and prohibits them from taking protected species, such as turtles, dugongs and clams. Fishers target a range of animals, including trepang, trochus, reef fish and sharks. Indonesian fishing effort is high at Scott Reef and also takes place at Browse Island.

Although both permit areas fall within the MoU Box, due to the nature of traditional fishing activities, the actual fishing effort generally only occurs in the shallow subtidal / intertidal habitats of the reefs and islands within the MoU Box.

Indonesian fishers from Rote and Kupang in the Indonesia province of East Nusa Tenggara have traditionally fished for sedentary reef species using sail boats in this area of Australian waters (AFMA 2023) and traditional Indonesian fishing effort is intense at Seringapatam Reef and Commonwealth waters in the Scott Reef complex. Depending on the intensity of effort and composition of catch, the extraction of living resources from these KEFs may affect trophic structures and ecological functioning (DSEWPaC 2012a).

Traditional fishers operating within the MoU Box are not part of a formal commercial fishery, as such they do not require a permit or licence to be issued by the Indonesian or Australian governments to operate within the MoU Box. During consultation with relevant persons in 2023, INPEX confirmed that AFMA do not directly license or regulate the traditional fishers that may be operating in the MoU Box. Neither do they maintain any records to identify traditional fishers who may operate within the MoU Box.

#### 4.12.2 Aquaculture

There are no aquaculture operations in WA-285-P or WA-343-P. Aquaculture development in the region is dominated by the production of pearls from the species *Pinctada maxima*. A large number of pearl oysters for seeding is obtained from wild stocks and supplemented by hatchery-produced oysters with major hatcheries operating at Broome and the Dampier Peninsular (Gaughan & Santoro 2021). The wild shell collection occurs in shallow coastal waters (WAFIC 2022b). All the leases are within 35 m diving depth. Pearl farm sites within the PEZ are located mainly along the Kimberley coast, particularly in the Buccaneer Archipelago, in Roebuck Bay and at the Montebello Islands.



Marine aquaculture initiatives in the Kimberley region include farming barramundi (*Lates calcarifer*) in the Cone Bay Kimberley Aquaculture Development Zone, situated approximately 200 km north-east of Broome comprising of 20 km<sup>2</sup> that was declared in 2014 (Gaughan & Santoro 2021).

A commercial pearl oyster hatchery and the Kimberley Training Institute aquaculture facility are located within the Broome Tropical Aquaculture Park (Gaughan & Santoro 2021). The Ardyaloon Hatchery is located on the Dampier Peninsula at One Arm Point and hatches the *Trochus niloticus* shell to create a commercially sustainable industry harvesting the shell.

During consultation, INPEX was informed that black-lip oyster farming was being trialled on the fringes of Docherty Island (NT); an initiative supported by the Thamarrurr Development Corporation (Appendix B.6). A small-scale trial was set up in 2023, with the first lines and grow-out cages deployed to test the sites for infrastructure suitability.

An analysis by WorldFish has indicated that aquaculture will overtake capture fisheries as the major source of fish in Indonesia before 2030 (Phillips et al. 2015). By volume, Indonesian aquatic production is dominated by seaweeds due to the simple farming techniques required, low capital and material inputs, and short production cycles. However, by value, domestically consumed species such as tilapia (*Oreochromis* spp.) and milkfish (*Chanos chanos*), together with export-orientated commodities such as shrimp and tuna, are of greater importance (Phillips et al. 2015).

#### 4.12.3 Shipping and ports

Vessel tracking data from Australian Maritime Safety Authority (**AMSA's**) Craft Tracking System (CTS) for January 2022 is presented in Figure 4-9. The CTS collects vessel traffic data from a variety of sources, including terrestrial and satellite shipborne Automatic Identification System (AIS) data sources. Figure 4-9 highlights the presence of commonly used transit routes in the vicinity of the permit areas used by supply vessels routinely supporting offshore developments in the Browse Basin including the INPEX Ichthys and Shell Prelude floating liquified natural gas (FLNG) facility. The major shipping lanes linking WA to Indonesia are situated over 180 km to the west of both permit areas (Figure 4-9).

The closest ports to WA-285-P and WA-343-P are Derby, Broome and Wyndham. These are small ports, exporting nickel, lead, zinc and cattle, and importing products to support their local communities. The Port of Broome provides supply facilities for the petroleum industry operating in the Browse Basin.

By comparison, the ports along the north-west and north coast, such as Onslow, Dampier, Cape Lambert, Port Hedland, and Darwin handle much larger tonnages of iron ore, and petroleum exports, with shipping routes throughout the region.

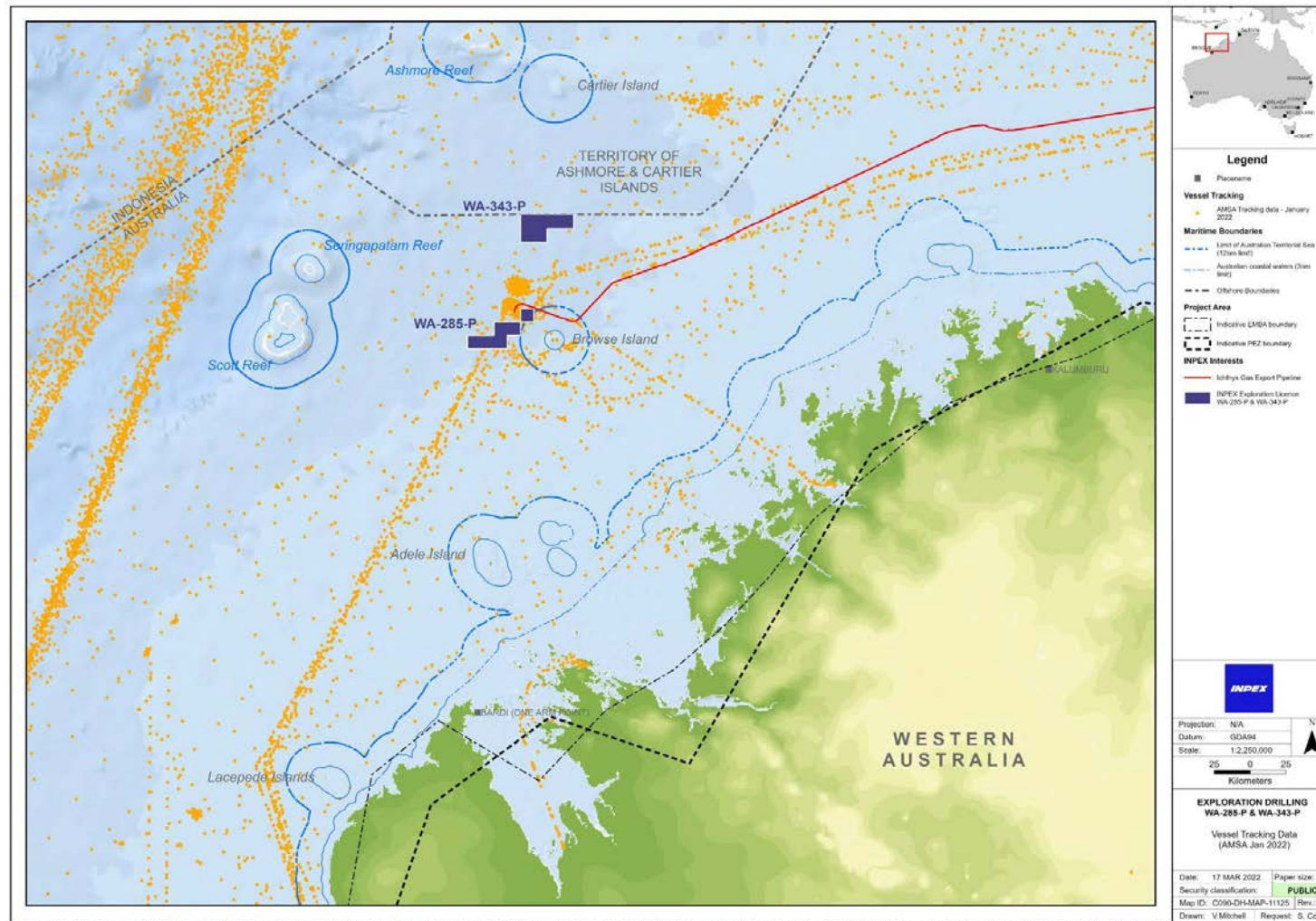


Figure 4-9: Vessel tracking data in the Browse Basin (January 2022)

The main supply bases for vessels supporting the petroleum activity are Darwin, Broome and Dampier. As all vessels have the potential to act as vectors for marine pests to these ports, a brief description of the current and historical IMS status of these ports is provided below.

#### Darwin Port

Darwin Port, located in Darwin Harbour in the NT, is a major service centre for the mining and energy sectors. Darwin Port operations consist of marine traffic of non-commercial vessels (e.g. recreational anglers) and trading vessels, including commercial ships carrying cargo and passengers, PSVs and AHSVs, tankers and bulk-cargo vessels.

A number of targeted marine pest monitoring programs have been executed in Darwin Port since 2010 (Cardno 2015, Golder Associates 2010), and through the course of these programs the following IMS have been detected; however, none of these are listed as noxious species by the NTG: *Magallana gigas* (presence of one shell valve) and *Caulerpa racemosa* var. *lamourouxii* (Golder Associates 2010) *Amphibalanus amphitrite* (barnacle), *Bugula neritina* (bryozoan) and the ascidians *Botryllus schlosseri*, *Botrylloides leachi* and *D. perlucidum* (Cardno 2015). While *M. gigas* was detected during a survey, as this was based on the presence of one shell valve, Golder Associates (2010) determined it was likely to be a discarded shell from oysters imported and purchased for human consumption and therefore its presence did not confirm this species had established in Darwin Port. *C. racemosa* var. *lamourouxii* is common in tropical and warm temperate seas and has previously been recorded in warmer waters in Australia including Darwin Harbour (Golder Associates 2010).

A marine pest monitoring program managed by NT Aquatic Biosecurity officers is currently ongoing. Artificial settlement units are located throughout Darwin Port, including on the INPEX Ichthys liquified natural gas (LNG) and liquified petroleum gas (LPG) jetties. These settlement units are photographed monthly and collected, replaced and analysed every four months.

In addition to monitoring program outcomes, in 1999 an outbreak of black striped mussels was recorded in three Darwin Port marinas. Following, a national response to the outbreak this species was successfully eradicated from invaded locations (Ferguson 2000).

In summary, numerous IMS monitoring studies have been undertaken at Darwin Port with IMS identified. Therefore, Darwin Port is considered to be an operationally active environment rather than a pristine environment.

#### Broome Port

Broome Port is the largest deepwater port in the Kimberly region of WA and is managed by the Kimberley Ports Authority. Broome Port facilities comprise a single 650 m jetty from the shore to deep-water, with almost 600 m of berth space, which is designated into 12 berths. Aside from the main jetty, there are approximately 160 moorings in the port (Bridgwood and McDonald 2014). The port is the main fuel and container hub port for the Kimberley region, and in recent years its principal exports have been livestock and offshore drilling rig equipment and materials (Kimberley Ports Authority 2021).

Broome Port waters are dominated by the tidal regime of the region, with spring tidal range in excess of 9.5 m. Substrates within Broome Port are predominantly soft mud tidal flats but some rocky substrates do occur with large expanses of substrate exposed at low tide. Submerged artificial substrates include the steel jetty piles as well as the boat moorings, although most of these are intertidal. Areas of mangroves exist within and nearby to Broome Port, particularly in Dampier Creek to the north-east, and in Willie Creek directly to the north (Bridgwood and McDonald 2014).

At Broome Port, the presence of IMS is monitored through the WA DPIRD's State-wide Array Surveillance Program (SWASP) (Kimberley Ports Authority 2021). The SWASP program involves the deployment of passive settlement arrays to monitor for growth and shoreline searches to identify potential IMS with surveillance occurring in ports every six months.

Previous incursions of IMS reported at Broome Port include black-striped mussel (*Mytilopsis salleri*) on illegal Indonesian fishing boats (McDonald 2008) and the colonial sea squirt (*D. perlucidum*) first reported in WA waters in 2010 (DPIRD 2021).

In comparison to Darwin Port, less information is available with respect to IMS that may be present in Broome Port. However, from the information presented it can be concluded that IMS have been identified in Broome Port and therefore it is not considered as a pristine environment.

#### Dampier Port

Dampier Port is managed by the Pilbara Ports Authority with the main exports including iron ore, salt, LNG, anhydrous ammonia as well as project cargo, break bulk and general cargo. The port consists of ten port terminals with four separate navigational channels and includes inshore, relatively calm and turbid environments that are sheltered by the 42 islands of the Dampier Archipelago and Murujuga. Offshore areas of Dampier Port are influenced by clearer oceanic waters and rougher seas. With its variety of conditions, Dampier Port supports a wide range of marine habitat types including mangroves, rocky shores, sand and mud shores, macroalgal communities and coral reefs (Pilbara Ports Authority 2021).

Since 2016, Dampier Port has been part of the SWASP and undertakes surveillance every six months as part of the program. In comparison to Darwin Port and Broome Port, less information is available with respect to marine pests that may be present in Dampier Port. However, it is reasonable to conclude that given it is an operationally active port, it is not considered as a pristine environment.

#### 4.12.4 Other industries

##### Oil and gas

The existing INPEX Ichthys facility (subsea and on the surface) is present within WA-50-L (adjacent to WA-285-P and approximately 60 km south of WA-343-P) consisting of a subsea production system, CPF Explorer and FPSO Venturer.

The next closest operational production facility to the permit areas, is the Shell Prelude FLNG facility located approximately 25 km to the north-east of WA-285-P and approximately 50 km south of WA-343-P.

##### Telecommunications

The North West Cable System (NWCS) is a purpose-built, submarine fibre cable system **designed to serve Australia's onshore and offshore resources industry**. The NWCS has been providing connectivity (high-speed data and voice communication services) to INPEX's Ichthys facility since 2017 when the NWCS became operational.

##### International agreements

Potentially relevant to offshore petroleum exploration are the treaties between the Australia and Indonesia, and Australia and Timor-Leste.

The Perth Treaty (1997) is a treaty between the Australian and Indonesian governments that establishes an EEZ boundary and seabed boundaries in relation to an area in the Timor Sea. Under the Perth Treaty there are agreed areas of overlapping jurisdiction where Australia exercises seabed jurisdiction including exploration for petroleum and Indonesia exercises water column jurisdiction including fishing rights. Although overlapping both the EMBA and PEZ, the permit areas are not located within areas covered by the Perth Treaty. Obligations under the Perth Treaty include that both governments must take effective measures to prevent, reduce and control pollution of the marine environment. Within Australia, consultation with the Indonesian government is managed by the Department of Foreign Affairs and Trade (DFAT).

The Treaty Between Australia and the Democratic Republic of Timor-Leste Establishing Their Maritime Boundaries in the Timor Sea (known as the Maritime Boundary Treaty) was signed by Australia and Timor-Leste in 2018 and was brought into force in 2019. The Maritime Boundary Treaty establishes permanent maritime boundaries between Australia and Timor-Leste in the Timor Sea **and recognises both states' sovereign rights**. The Treaty creates the Greater Sunrise Special Regime for the joint development, exploitation and management of the Greater Sunrise gas fields and also includes transitional arrangements to provide regulatory certainty and continuity for affected investors in the oil and gas sector in the Timor Sea. Although overlapping both the EMBA and PEZ, the permit areas are not located within areas covered by the Maritime Boundary Treaty.

#### 4.13 Summary of values and sensitivities

##### 4.13.1 WA-285-P

Table 4-9: Particular values and sensitivities potentially within WA-285-P

Value and sensitivity	Description
Receptors that are considered socially important including socio-economic and cultural heritage values.	Fisheries (traditional and commercial). Historical shipwrecks associated with guano cargo in proximity to Browse Island, specific locations are unknown but may be in proximity WA-285-P.
Benthic primary producer habitat, defined by the Western Australian Environmental Protection Authority (WA EPA) Environmental Assessment Guideline No. 3 <i>Environmental Assessment Guidelines for Protection of Benthic Primary Producer Habitat in Western Australia's Marine Environment</i> as functional ecological communities that inhabit the seabed within which algae (e.g. macroalgae, turf and benthic microalgae), seagrass, mangroves, corals, or mixtures of these groups, are prominent components.	None identified within WA-285-P.
Regionally important areas of high diversity (such as shoals and banks).	WA-285-P overlaps the continental slope demersal fish communities KEF.
World heritage values of a declared World Heritage property within the meaning of the EPBC Act.	None identified within WA-285-P.
National heritage values of a National Heritage place within the meaning of the EPBC Act.	None identified within WA-285-P.
Ecological character of a declared Ramsar wetland within the meaning of the EPBC Act.	None identified within WA-285-P.

Value and sensitivity		Description
Presence of a listed threatened species or listed threatened ecological community within the meaning of the EPBC Act.		A number of threatened species or migratory species have been identified as having the potential to transit through WA-285-P.
Presence of a listed migratory species within the meaning of the EPBC Act.		These have been categorised as marine fauna: <ul style="list-style-type: none"> <li>• marine mammals</li> <li>• marine reptiles</li> <li>• fishes and sharks</li> <li>• marine avifauna.</li> </ul> Also refer to Appendix A.1 (EPBC Act Protected Matters database search report – WA-285-P).
Any values and sensitivities that exist in, or in relation to, part or all of:	a Commonwealth marine area within the meaning of the EPBC Act.	Productivity and diversity associated with planktonic communities and benthic communities.
	Commonwealth land within the meaning of the EPBC Act.	None identified within WA-285-P.
BIAs associated with EPBC-listed species.		The north eastern corner of WA-285-P overlaps the boundary of a 20 km interesting buffer at Browse Island which provides critical habitat for green turtles.

#### 4.13.2 WA-343-P

Table 4-10: Particular values and sensitivities potentially within WA-343-P

Value and sensitivity	Description
Receptors that are considered socially important including socio-economic and cultural heritage values.	Fisheries (traditional and commercial).
Benthic primary producer habitat, defined by the Western Australian Environmental Protection Authority (WA EPA) Environmental Assessment Guideline No. 3 <i>Environmental Assessment Guidelines for Protection of Benthic Primary Producer Habitat in Western Australia's Marine Environment</i> as functional ecological communities that inhabit the seabed within which algae (e.g. macroalgae, turf and benthic microalgae), seagrass, mangroves, corals, or mixtures of these groups, are prominent components.	None identified within WA-343-P.
Regionally important areas of high diversity (such as shoals and banks).	WA-343-P overlaps the continental slope demersal fish communities KEF
World heritage values of a declared World Heritage property within the meaning of the EPBC Act.	None identified within WA-343-P.
National heritage values of a National Heritage place within the meaning of the EPBC Act.	None identified within WA-343-P.

Value and sensitivity		Description
Ecological character of a declared Ramsar wetland within the meaning of the EPBC Act.		None identified within WA-343-P.
Presence of a listed threatened species or listed threatened ecological community within the meaning of the EPBC Act.		A number of threatened species or migratory species have been identified as having the potential to transit through WA-343-P.
Presence of a listed migratory species within the meaning of the EPBC Act.		These have been categorised as marine fauna: <ul style="list-style-type: none"> <li>• marine mammals</li> <li>• marine reptiles</li> <li>• fishes and sharks</li> <li>• marine avifauna.</li> </ul> Also refer to Appendix A.1 (EPBC Act Protected Matters database search report – WA-343-P).
Any values and sensitivities that exist in, or in relation to, part or all of:	a Commonwealth marine area within the meaning of the EPBC Act.	Productivity and diversity associated with planktonic communities and benthic communities.
	Commonwealth land within the meaning of the EPBC Act.	None identified within WA-343-P.
BIAs associated with EPBC-listed species.		There are no known BIAs or critical habitats associated with listed threatened species or migratory species that overlap WA-343-P.

## 4.13.3 PEZ

Table 4-11: Particular values and sensitivities potentially within the PEZ

Value and sensitivity	Description
Receptors that are considered socially important including socio-economic and cultural heritage values.	Fisheries (commercial, traditional and recreational). Underwater cultural heritage including wrecks over 75 years old. Aboriginal heritage sites and places including registered Aboriginal sites and sacred sites.
Benthic primary producer habitat, defined by the Western Australian Environmental Protection Authority (WA EPA) Environmental Assessment Guideline No. 3 <i>Environmental Assessment Guidelines for Protection of Benthic Primary Producer Habitat in Western Australia's Marine Environment</i> as functional ecological communities that inhabit the seabed within which algae (e.g. macroalgae, turf and benthic microalgae), seagrass, mangroves, corals, or mixtures of these groups, are prominent components.	Benthic primary producer habitats are described in Section 4.9.2 and include the Commonwealth and state marine reserves and KEFs listed below.
Regionally important areas of high diversity (such as shoals and banks).	KEFs: <ul style="list-style-type: none"> <li>• Continental slope demersal fish communities</li> <li>• Ancient coastline at 125 m depth contour</li> </ul>

Value and sensitivity	Description
	<ul style="list-style-type: none"> <li>• Ashmore Reef and Cartier Island and surrounding Commonwealth waters</li> <li>• Canyons linking the Argo Abyssal Plain with Scott Plateau</li> <li>• Canyons linking the Cuvier Abyssal Plain and the Cape Range Peninsula</li> <li>• Carbonate bank and terrace system of the Sahul Shelf</li> <li>• Mermaid Reef and Commonwealth waters surrounding the Rowley Shoals</li> <li>• Pinnacles of the Bonaparte Basin</li> <li>• Seringapatam Reef and Commonwealth waters in the Scott Reef complex</li> <li>• Carbonate bank and terrace system of the Van Diemen Rise</li> <li>• Shelf break and slope of the Arafura Shelf</li> <li>• Exmouth Plateau</li> <li>• Glomar Shoals.</li> </ul> <p>Benthic habitats:</p> <ul style="list-style-type: none"> <li>• Various banks and shoals, and coral reefs (Section 4.9.2)</li> <li>• Seagrasses (Ashmore Reef), Buccaneer Archipelago, dugong foraging BIA north of Broome and along the Indonesian coastline.</li> </ul> <p>Shoreline habitats:</p> <ul style="list-style-type: none"> <li>• Islands, mangroves and sandy beaches (Section 4.9.3).</li> </ul>
World heritage values of a declared World Heritage property within the meaning of the EPBC Act.	None identified within this area.
National heritage values of a National Heritage place within the meaning of the EPBC Act.	The West Kimberley is identified as natural National Heritage Places (Section 4.11.2).
Ecological character of a declared Ramsar wetland within the meaning of the EPBC Act.	<p>Six Ramsar sites (Section 4.6):</p> <ul style="list-style-type: none"> <li>• Ashmore Reef National Nature Reserve</li> <li>• Eighty Mile Beach</li> <li>• Hosnies Spring</li> <li>• Pulu Keeling National Park</li> <li>• Roebuck Bay</li> <li>• The Dales.</li> </ul>
Presence of a listed threatened species or listed threatened ecological community within the meaning of the EPBC Act.	A number of threatened species or migratory species have been identified as having the potential to transit through the PEZ.
Presence of a listed migratory species within the meaning of the EPBC Act.	<p>These have been categorised as marine fauna (Section 4.9.4):</p> <ul style="list-style-type: none"> <li>• marine mammals</li> <li>• marine reptiles</li> <li>• fishes and sharks</li> <li>• marine avifauna.</li> </ul>



Value and sensitivity		Description
		Also refer to Appendix A.1 (EPBC Act Protected Matters database search report - PEZ).
Any values and sensitivities that exist in, or in relation to, part or all of:	a Commonwealth marine area within the meaning of the EPBC Act.	Productivity and diversity associated with planktonic communities and benthic communities.
	Commonwealth land within the meaning of the EPBC Act.	Commonwealth land identified includes Christmas Island National Park and Pulu Keeling National Park (Section 4.1.2) and Yampi Sound Training Area (Section 4.6.9).  Quail Island Bombing Range, Mt Goodwin Radar Site and Norforce Depot – Derby were also identified (Appendix A.1); however, these are not marine sensitivities and therefore are not discussed further.
BIAs associated with EPBC-listed species.		<p>A large number of BIAs are present within the PEZ including:</p> <p><u>Marine mammals</u></p> <ul style="list-style-type: none"> <li>• humpback whale migration route and aggregation/calving areas</li> <li>• pygmy blue whale foraging and migration route</li> <li>• dugong foraging at Ashmore Reef and near Broome</li> <li>• coastal dolphins breeding, calving and foraging areas.</li> </ul> <p><u>Marine reptiles</u></p> <p>Turtle nesting, internesting and adjacent foraging areas including Browse Island, Ashmore Reef, Cartier Island, Lacepede Islands, Sandy Islet (Scott Reef), Joseph Bonaparte Gulf and Tiwi Islands.</p> <p><u>Fish and sharks</u></p> <ul style="list-style-type: none"> <li>• whale shark foraging area</li> <li>• green sawfish BIA</li> <li>• KEFs associated with increased species diversity and abundance (i.e. continental slope demersal fish communities and the ancient coastline at 125 m depth contour).</li> </ul> <p><u>Marine avifauna</u></p> <ul style="list-style-type: none"> <li>• a number of resting and breeding areas associated with shoreline habitats (e.g. Adele Island, Ashmore Reef, Browse Island, Cartier Island, Sandy Islet (Scott Reef), Lacepede Islands and nearshore waters and islands of the WA and NT coastline) including nationally important wetlands (Section 4.6)</li> </ul>

Value and sensitivity	Description
	<ul style="list-style-type: none"><li>• a large number of offshore foraging areas that are adjacent to these shoreline habitats.</li></ul>

## 5 CONSULTATION

This section of the EP, in conjunction with Appendix B, describes consultation undertaken by INPEX between January 2022 and September 2023 for the proposed activity, including the public comment period, also undertaken between May and June 2022.

### 5.1 Relevant person consultation

The outcome of the Federal Court of Australia appeal decision in December 2022 (*Santos NA Barossa Pty Ltd v Tipakalippa* [2022]), represents the law regarding requirements for consultation in accordance with the OPGGS (E) Regulations.

At the time of the court decision this EP was under assessment by NOPSEMA and had been through previous consultation between 27 January 2022 and 27 April 2022, using the methodology described in Appendix B.1. Following the court appeal INPEX revised its methodology (refer to Appendix B.2) to better reflect the intent of the court decision and commenced a second round of consultation on 22 December 2022. The following sections reflect the outcomes of both rounds of consultation conducted up to and including information received by mid-day 27 September 2023.

During the consultation process described in this section of the EP and Appendices B.1 - B.6, the following guidance was considered at various stages to reflect industry best practice:

- Consultation in the course of preparing an environment plan (NOPSEMA 2022a)
- Consultation with Commonwealth agencies with responsibilities in the marine area (NOPSEMA 2022b)
- Interim Engaging with First Nations People and Communities on Assessments and Approvals Under the *Environment Protection and Biodiversity Conservation Act 1999* (DCCEE 2023h)
- Consultation approach for unplanned events (WAFIC 2023)
- **INPEX's Aboriginal & Torres Strait Islander Engagement Policy (0000-A0-POL-60003)** and **Aboriginal & Torres Strait Islander Engagement Standard (0000-A0-STD-60006)**
- AA1000 Stakeholder Engagement Standard (Accountability 2015).

#### 5.1.1 Identified relevant persons

As described above, two consultation campaigns were undertaken for the proposed activity (2022 and 2023). Through the implementation of the revised methodology (Appendix B.2), INPEX identified new relevant persons which were in addition to those already identified during the 2022 consultation. A complete list of relevant persons applicable to the proposed activity is presented in Appendix B.3, which includes new relevant persons identified through discussions with other relevant persons or through extended enquiry activities.

As described in Appendix B.2, there may be persons who have functions, interests or activities within the PEZ, as calculated by the oil spill modelling included in the EP at the initial time of submission, but those functions, interests or activities may not be affected by INPEX's activities. Where no environmental or ecological impacts are predicted within a geographical area, there can be no corresponding impacts on a person's functions, interests or activities. There may also be instances where potential environmental or ecological impacts are predicted to occur within an area; however, despite a geographical overlap this will not necessarily equate to an impact on a person's functions, interests or activities. Where a person's functions, interests or activities within the PEZ are not affected, or are only affected in an immaterial or negligible way, they have not been identified as a relevant person (as defined under OPGGS (E) Regulations 11A). However, if less conservative and, arguably, more appropriate oil spill modelling was used, the PEZ would be significantly reduced and even fewer potentially relevant persons would need to be consulted.

As there were no material changes (such as timing, location or methodologies) to the proposed activity, consultation with relevant persons, identified in 2022, was not automatically repeated in 2023 for every relevant person. Instead, to confirm if the level of consultation was appropriate, and if there was any requirement to contact the same relevant persons again, an assessment of previous consultation with those relevant persons identified in 2022 was completed. The aim being to avoid any fatigue or duplication of effort. Those relevant persons, originally identified in 2022, that were considered to have received sufficient information and were therefore not consulted again in 2023 are presented in Table 5-1.

Table 5-1: Relevant persons consulted in 2022 and not contacted again in 2023

Relevant person	Justification
Australian Maritime Safety Authority (AMSA) Cwlth – nautical advice	AMSA was provided sufficient information in 2022 and their requirements in relation to their function have been reflected in the EP (refer to Appendix B.5). As there have been no changes to the proposed activity, location or schedule INPEX did not contact them again in 2023.
Australian Hydrographic Office (AHO) Cwlth	AHO was provided sufficient information in 2022 and their requirements in relation to their function have been reflected in the EP (refer to Appendix B.5). As there have been no changes to the proposed activity, location or schedule INPEX did not contact them again in 2023.
Australian Fisheries Management Authority (AFMA) Cwlth	AFMA responded to INPEX in 2022 and suggested consultation be done through the relevant fishing industry associations or directly with fishers who hold entitlements in the area. Note, further consultation was undertaken in 2023 with relevant Commonwealth fishery licence holders and associations. In 2023 INPEX did engage with AFMA on a separate matter relating to traditional Indonesian fishing in the MoU Box (refer to Appendix B.6).
Department of Agriculture, Fisheries and Forestry (DAFF) Cwlth – biosecurity branch	DAFF (formerly DAWE) biosecurity branch was provided sufficient information in 2022 and their requirements in relation to their function have been reflected in the EP (refer to Appendix B.5). As there have been no changes to the proposed activity, location or schedule INPEX did not contact them again in 2023.
Office of the Director of National Parks (DNP) Cwlth	DNP was provided sufficient information in 2022 and their requirements in relation to their function have been reflected in the EP (refer to Appendix B.5). As there have been no changes to the proposed activity, location or schedule INPEX did not contact them again in 2023.

Relevant person	Justification
Australian Communications and Media Authority (ACMA) Cwllth	ACMA was provided sufficient information in 2022 and their requirements in relation to their function have been reflected in the EP (refer to Appendix B.5). As there have been no changes to the proposed activity, location or schedule INPEX did not contact them again in 2023.
Department of Biodiversity Conservation and Attractions (DBCA) WA	DBCA was provided sufficient information in 2022 and their requirements in relation to their function have been reflected in the EP (refer to Appendix B.5). As there have been no changes to the proposed activity, location or schedule INPEX did not contact them again in 2023.
Department of Mines, Industry Regulation and Safety (DMIRS) WA	DMIRS was provided sufficient information in 2022 and their requirements in relation to their function have been reflected in the EP (refer to Appendix B.5). As there have been no changes to the proposed activity, location or schedule INPEX did not contact them again in 2023.
Department of Primary Industries and Regional Development (DPIRD) WA – fisheries division	While no response was received in 2022 from DPIRD- fisheries, INPEX consulted extensively with the department in 2021 <b>with respect to INPEX's</b> biosecurity process and controls through the development of another INPEX EP (Offshore Facility Operations EP accepted by NOPSEMA in April 2022). Therefore, INPEX is aware of their current requirements in relation to this departments function, and this has been reflected in the EP (refer to Section 9.6.2). As there have been no changes to the proposed activity, location, schedule or WA receiving environment with respect to biosecurity, INPEX did not contact them again in 2023.
Kimberley Ports Authority	Kimberley Ports Authority advised they supported INPEX in the proposed activity.
Vocus Communications	Vocus Communications were contacted in 2022 at the suggestion of ACMA. Information on the location of subsea cables in the vicinity of the planned activity has been included in the EP.
Willie Creek	The following pearl farm operators were contacted in 2022 and not contacted again in 2023 as operators of pearl farm. Note some were contacted as pearl fishery licence holders (wild shell collection).
Paspaley	
Cygnet Bay	
Maxima	

### International persons

During NOPSEMA's assessment of this EP in August 2023, the potential that relevant persons may exist in international waters was brought to INPEX's attention. Although never contacted directly by an international person who identified themselves as a relevant person. The following subsections provide further detail on **INPEX's approach for the** further consideration of potentially relevant persons from international jurisdictions.

#### *Indonesian and Timor-Leste coastlines*

As detailed in Appendix B.2, for the purposes of determining relevant persons who may be affected in the event of an oil spill, a range of thresholds have been used to define the area **or spatial extent within which functions, interests or activities may be affected by INPEX's** activities.

Exposure to Indonesian and Timor-Leste coastlines as shown in the figure in Appendix B.3 (*Workshop inputs*), are based on a PEZ that comprises a 10 ppb instantaneous oil concentration for entrained hydrocarbons. It should be noted that 10 ppb was reported in scientific literature to be a threshold at which effects were observed from laboratory testing of the most toxic dissolved oil mixture on the most sensitive marine species. These types of exposure tests are typically conducted over a duration of 48-96 hours. In addition, they are tests using dissolved oil, the soluble, most toxic components of entrained hydrocarbons.

It can be reasonably foreseeable that coastal communities in Indonesia and Timor-Leste would have an interest in fishing and aquaculture in the waters offshore from their coastlines. When exposed to entrained hydrocarbons, the exposure pathway for fish would be via ingestion of entrained oil droplets from within the water column which are then metabolised and excreted as opposed to absorption of dissolved oil into their flesh resulting in tainting (refer to Section 8.25, Table 8-6 for the detailed impact assessment). As shown in Appendix B.7b, the EMBA, associated with ecological impact (based on thresholds as described in Table 8-2) does not extend to Indonesian or Timor-Leste nearshore waters where other aquaculture and seaweed farming activities may occur. At the low concentration of 10 ppb, there is not considered to be any exposure pathways resulting in ecological/toxicity impacts to fish or other receptors and therefore no effect on the functions, interest or activities of Indonesian coastal communities who may be undertaking fishing or aquaculture activities in coastal waters.

As described in more detail in Appendix B.7a, the use of an instantaneous, entrained oil threshold to inform the outer extent of the PEZ is considered highly conservative. The outer extent of the entrained oil component of the PEZ boundary may be reduced by up to 80% if the model was based on time-weighted exposures such as a 48-96 hour period. Noting that time-weighted modelling was not used to inform the potential relevant persons list for this EP, if it were, the outcome of applying the relevant persons methodology can reasonably be assumed to result in a significantly lower number of potentially relevant persons given the geographical reduction in size of the PEZ and EMBA that is likely to occur and potentially not extend to international coastlines.

In regard to shoreline contact, the threshold of 10 g/m<sup>2</sup> has been applied for the PEZ boundary. Many shoreline contacts >10 g/m<sup>2</sup> are driven by entrained oil re-floating near a shoreline and then becoming stranded ashore. The model algorithms use many conservative assumptions including dispersion rates, entrainment rates and biological degradation rates, which collectively result in an over-prediction of entrained oil concentrations over large distances. The consequence of these conservative assumptions result in the over-estimation of the volumes of oil being calculated by the model, to be arriving at a shoreline. In addition, the model algorithms include multiple conservative assumptions related to the processes of oil stranding on a shoreline, including over-calculation of oil-patches arriving on a shoreline, simplification of shoreline contours, absence of wetting/drying effects and realistic intertidal zone widths, which may be large in areas with higher tidal ranges and/or gradual slopes (Appendix B.7a). The outcome of this combination of factors is very likely to be resulting in the model over-reporting locations of shoreline contact above the 10 g/m<sup>2</sup> threshold. Additionally, a location may have only been exposed at >10 g/m<sup>2</sup>, for a period as short as a single 15-minute modelled time-step, before the oil may have further evaporated or decayed to below the threshold value. A further discussion of the limitations of the oil spill modelling are described in Appendix B.7 including a map indicating potential exposure of coastlines to a range of thresholds (refer to Appendix B.7b).

The 10 ppb entrained and 10 g/m<sup>2</sup> shoreline contact thresholds are defined in the NOPSEMA Oil Spill Modelling Environment Bulletin (2019), as highly conservative thresholds to be applied for oil spill response planning and environmental monitoring programs. However, **they are not considered as a reasonable basis to determine if a person's functions, interest or activities will be materially affected by INPEX's activities.**

On this basis, INPEX has made an assessment as to whether the functions, interests and activities of persons located in various provinces (local government areas) on Indonesian or Timor-Leste coastlines within the PEZ have the potential to be affected.

A summary of predictive oil spill modelling for international (Indonesian and Timor-Leste) coastlines is presented in Table 5-2.

Table 5-2: Oil spill modelling summary – Indonesia and Timor-Leste

Country	Province	Summary of oil spill modelling outputs
Indonesia	Province of Maluku	The location of the functions, interests or activities do not overlap the area of ecological impact (EMBA as defined in Table 8-2) refer to Appendix B.7b. There is some overlap with the PEZ (10 ppb monitoring area). Predicted shoreline contact of 10 g/m <sup>2</sup> west and south- west of Kapulauan Tanimbar, west of Wetar and isolated locations within small islands in the province. One instance of 100 g/m <sup>2</sup> shoreline contact on an island west-south-west of Babar Island. In this instance any impacts to functions, interests or activities are expected to be immaterial *.
Indonesia	Province of East Nusa Tenggara	The location of the functions, interests or activities do not overlap the EMBA. There is some overlap with the PEZ (10 ppb monitoring area). Predicted shoreline contact of 10 g/m <sup>2</sup> north of Timor, Roti and Sumba and island west of Roti. One instance of predicted shoreline contact 100 g/m <sup>2</sup> to the south on an island west of Roti. In this instance any impacts to functions, interests or activities are expected to be immaterial *.
Indonesia	Province of West Nusa Tenggara	The location of the functions, interests or activities do not overlap with either the EMBA or PEZ. Predicted shoreline contact of 10 g/m <sup>2</sup> south of Lombok and Sumbawa. As no ecological impacts are predicted, any impacts to relevant persons functions, interest or activities would be negligible.
Indonesia	Province of East Java	The location of the functions, interests or activities do not overlap with either the EMBA or PEZ. Predicted shoreline contact of 10 g/m <sup>2</sup> in south-south-east and south-south-west of province. As no ecological impacts are predicted, any impacts to relevant persons functions, interest or activities would be negligible.
Indonesia	Province of Yogyakarta	The location of the functions, interests or activities do not overlap with either the PEZ or EMBA. One instance of predicted shoreline contact of 10 g/m <sup>2</sup> in the south of the province. As no ecological impacts are predicted, any impacts to relevant persons functions, interest or activities would be negligible.

Country	Province	Summary of oil spill modelling outputs
Timor-Leste	Municipality of Cova Lima and associated sub-district administrative posts (SDAP)	The location of the functions, interests or activities do not overlap with either the EMBA or PEZ. Predicted shoreline contact of 10 g/m <sup>2</sup> in parts of the south of the municipality – Suai and Zumalai sub-district. As no ecological impacts are predicted, any impacts to relevant persons functions, interest or activities would be negligible.
Timor-Leste	Municipality of Ainaro and associated SDAP	The location of the functions, interests or activities do not overlap with either the PEZ or EMBA. Predicted shoreline contact of 10 g/m <sup>2</sup> in parts of the south of the municipality - Hato-Udo sub-district. As no ecological impacts are predicted, any impacts to relevant persons functions, interest or activities would be negligible.
Timor-Leste	Municipality of Manufahi and associated SDAP	The location of the functions, interest or activities do not overlap with either PEZ, EMBA and no predicted shoreline contact. As no ecological impacts are predicted, any impacts to relevant persons functions, interest or activities would be negligible.
Timor-Leste	Municipality of Viqueque and associated SDAP	The location of the functions, interests or activities do not overlap with either the PEZ or EMBA. One instance of predicted shoreline contact of 10 g/m <sup>2</sup> in south of the municipality - Uato-Lari sub district. As no ecological impacts are predicted, any impacts to relevant persons functions, interest or activities would be negligible.
Timor-Leste	Municipality of Lautem and associated SDAP	The location of the functions, interests or activities do not overlap with either the PEZ or EMBA. Predicted shoreline contact of 10 g/m <sup>2</sup> in parts of the east, east-south-east and south of the municipality - Tutala, Lospalos and Iliomar sub-districts. As no ecological impacts are predicted, any impacts to relevant persons functions, interest or activities would be negligible.
Timor-Leste	Municipality of Liquica and associated SDAP	The location of the functions, interests or activities do not overlap with either the PEZ or EMBA. One instance of predicted shoreline contact of 10 g/m <sup>2</sup> in North of the municipality - Maubara sub district. As no ecological impacts are predicted, any impacts to relevant persons functions, interest or activities would be negligible.

\* Where one instance of shoreline contact was predicted as >100 g/m<sup>2</sup> threshold, this represents 1 modelled simulation out of a possible 300 reflecting a 0.3% probability of occurrence. The above discussed conservative assumptions associated with the model are also likely factoring in to calculations of shorelines which may be contacted at >100 g/m<sup>2</sup>.

Within the oil spill model there are numerous, compounding conservatisms (as described above and in Section 8.2). These conservatisms in conjunction with both the preventative controls in place to reduce the likelihood (Highly Unlikely) of the event occurring; and in the event it did occur the implementation of **INPEX's** source control measures would limit the volume and duration (i.e. size of spill) of any oil spill. As a result, this would reduce the overall potential for any environmental impacts both nationally and internationally. Therefore, the residual risk remains as Low and no ecological impacts are predicted (refer to Table 8-6 and Appendix B. 7b).



As shown in Appendix B.7c, the extent of the area exposed in the event of a single spill scenario has been presented in relation to the durations associated with implementation of various source control measures that are ALARP and acceptable, and available to INPEX. The activation of the BOP would be instant, and the well would be contained within 4 hours of a blowout. As detailed in Appendix C, timeframes associated with other source control techniques are BOP intervention - 3 days, deployment of a capping stack - 21 days, and a relief well would be completed within 80 days. As illustrated in Appendix B.7c, the area exposed to all phases of hydrocarbon (surface, entrained, dissolved and shoreline) is greatly reduced upon implementation of source control measures. Additionally, implementation of oil spill response strategies would further prevent or reduce the potential for any environmental impacts to the receiving environment both nationally and internationally.

Based on the outcome of the assessment, INPEX considers that there is no potential for functions, interests or activities to be materially affected and therefore concludes that there are no internationally relevant persons on Indonesian or Timor-Leste coastlines applicable to this activity.

#### *MoU Box*

As described in Section 4.12.1 *Indonesian traditional fishing* and Figure 4-2, the permit areas and the EMBA overlap the MoU Box. However, traditional Indonesian fishing effort is focussed on shallow waters such as those at Seringapatam Reef and the Scott Reef complex where target sedentary reef-species are generally encountered, rather than the deep waters of the permit areas.

The MoU Box overlaps Australian waters, and the majority of traditional fishing activities occur at locations such as reefs and islands within AMPs whose values are described in Section 4.3. The AMPs are managed by the Director of National Parks with whom INPEX has consulted with on this activity in 2022 and 2023.

During consultation with AFMA in September 2023, INPEX confirmed that AFMA do not directly license or regulate the traditional fishers that may be operating in the MoU Box. Nor do they maintain a register of contact details for these traditional Indonesian fishers. As there is no requirement for traditional fishers to be licensed by either the Australian or Indonesian governments there is no publicly available information to identify these individuals.

The obligation to identify relevant persons for the purpose of consultation must be reasonably capable of discharge within a reasonable time and there is an evident need for all relevant persons to be ascertainable<sup>1</sup>. Based on the opacity as to the identity of any traditional fishers operating within the MoU Box, INPEX has not been able to identify or make contact with them in a manner which is considered to be both reasonable and workable<sup>2</sup>.

This is an example of where INPEX have identified a group of relevant persons that may be potentially affected. However, INPEX is unable to confirm individual contact details as these are not ascertainable<sup>3</sup> through normal mechanisms (e.g. associated Australian or Indonesian government agencies, organisations or representative bodies who hold these details or who can advise who these individuals are). As such consulting with such relevant persons is not capable of being discharged within a reasonable time due to the “opacity as to the identity of those with whom consultations are to take place”<sup>3</sup>.

Nevertheless, it can be inferred that the interests of traditional fishers (healthy fish communities) would be the same as those licenced commercial fishers operating in Australia that INPEX has been able to contact via Commonwealth and State/Territory agencies such as AFMA, WA DPIRD, NT DITT, WAFIC and NTSC. It is considered that feedback received by INPEX, in relation to potential impacts to fish communities (toxicity) and damage to fish stocks, would be similar to traditional fishers in the MoU Box who share the same interests.

Consultation outcomes from Commonwealth and State/Territory agencies in relation to commercial fisheries included some aspects of INPEX’s preparedness in response to an unplanned oil spill event and impacts to fisheries. INPEX confirmed that its operational and scientific monitoring plan (OSMP) included in the Browse Regional OPEP includes a monitoring program (SM12) to determine the impact of oil spill on commercial, traditional and recreational fisheries, which includes various assessments depending on type, nature and scale of the spill. In the event of an unplanned oil spill, consultation with the Indonesian government will be managed by DFAT.

### 5.1.2 Consultation approaches and activities

INPEX utilised a range of tools to consult with relevant persons in the most appropriate and effective manner and as described in Appendix B.2, noting that specific consultation approaches may be required for certain groups of relevant persons. A variety of consultation approaches and materials were used for the development of this EP and examples are presented in Appendix B.4.

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<sup>1</sup> Appeal Decision paragraphs [136], [141] and [153].

<sup>2</sup> Appeal Decision paragraphs [89], [109], [136], [138] and [141].

<sup>3</sup> Appeal Decision paragraph [136].

## Categorisation of relevant persons and consultation requirements

Once assessed as relevant, specific requirements for consultation were established with each relevant person categorised to ensure they received appropriate consultation materials as summarised in Table 5-3. The categorisation process, completed during the relevant person identification workshop, described in Appendix B.2, was undertaken prior to consultation activities occurring in 2023. The outcome of the categorisation for each relevant person is presented in Appendix B.3 and was used as an initial guide for establishing expected levels and proposed methods of engagement. However, over the course of undertaking consultation for the EP, based on feedback received by INPEX, some relevant persons may have requested or may have required a different level of engagement or methods of engagement than was initially expected based on their categorisation. This may include instances where some relevant persons required more information to make a decision about whether there were any consequences or impacts to their specific functions, interests or activities with regards to the proposed activity. Similarly, other relevant persons may have requested a lower level of engagement such as indicating a preference for email rather than in-person meetings.

Table 5-3: Summary of the categories of relevant persons and consultation strategy

Category	Description of category
Category 1	Relevant persons who may be affected by planned activities. Relevant persons who have published / known requirements on how they wish to be consulted with.
Category 2	May be affected directly or indirectly by unplanned activities (within the PEZ). Those that require information regarding unplanned activities (i.e. spills).
Category 3	Anyone else who may be indirectly impacted or have interests. Includes extended enquiry for persons who are not known to INPEX.
Consultation strategy level	
Level A	Work with relevant person to ensure targeted and tailored information is provided to enable an effective consultation process – may include meetings or presentations, scheduled phone calls and specific information. As appropriate, direct engagement with Aboriginal and Torres Strait Islander relevant persons may be undertaken to co-design consultation approaches.
Level B	Specific information based on known information needs – may require ongoing, iterative consultation over an extended period of time. As appropriate, direct engagement with Aboriginal and Torres Strait Islander relevant persons may be undertaken to co-design consultation approaches.
Level C	Broader, higher-level consultation – may include emailed factsheets or information, with access to EP specific website or similar.
Level D	Extended enquiry – advertisements in newspapers throughout Australia, social media/media information directing people to an EP summary website.

## Preparation for consultation

### *EP summary website*

In preparation for consultation in 2023, INPEX developed an EP summary website ([https://anz.planengage.com/exploration\\_drilling\\_285\\_343/page/Home](https://anz.planengage.com/exploration_drilling_285_343/page/Home)) as the primary tool to convey information about the proposed activity, potential environmental risks and controls in place (INPEX 2023). A link to the website was included on the INPEX Australia website, in emails and a QR code included in letters sent directly to relevant persons. The QR code or a link to the website was also published in industry body newsletters, newspapers and on social media as part of the extended enquiry process.

The website was published on the 9<sup>th</sup> January 2023 and provided a summary of the following:

- What is an environment plan? – to provide background information on the purpose of an EP.
- EP consultation requirements – to describe changes to EP consultation following the Federal Court of Australia appeal decision in December 2022 and **NOPSEMA's** guideline (N-04750-GL2086).
- Overview of activities – to provide details on the proposed activity covered by this EP and included links to access the EP in full on NOPSEMA's website.
- Location – presented a location map with coordinates of permit areas and a video to introduce the concept of oil spill modelling and how this is used to generate the PEZ and EMBA.
- Schedule and timing – to provide details on the duration and expected timeframe for the activity will occur.
- Methodology – to describe the techniques to be used during the site survey and exploration drilling.
- Environmental values and sensitivities – presented a selection of maps to describe environmental sensitivities in the PEZ.
- Risk assessment process – to describe the process and risk matrix used by INPEX to undertake the assessment including consequence, likelihood and ALARP.
- Planned activities – presented the controls in place to manage impacts and risks from planned activities in the permit areas.
- Unplanned activities – presented the controls in place to manage risks from unplanned activities in the permit areas and PEZ.
- Emergency conditions – identified the worst-case spill scenarios associated with the activity and presented preventative and mitigative controls in place to manage risks from an emergency condition.

In addition to the information about the proposed activity the website included definitions for key terms used and links to other useful websites to assist readers. Through the website, readers were able to provide feedback and comments to INPEX on the proposed activity and make suggestions for improvements. A telephone number as an alternative mechanism of contact was also included.

*In-person meetings*

In addition to the distribution of EP specific information (emails/letters/QR code to EP summary website, etc.), consultation specifically undertaken during the development of this EP included many in-person meetings. Meetings were held across a vast geographical location spanning from Port Hedland to Darwin including but not limited to Broome, Derby, Ardyaloon (One Arm Point), Djarindjin, Lombadina, Perth, Darwin, Katherine, Wadeye, Kununurra, Belyuen, Timber Creek and on the Tiwi Islands throughout 2023.

Meetings were held with the applicable land councils and registered prescribed body corporates. In some cases this facilitated further consultation opportunities with Aboriginal and Torres Strait Islander relevant persons. A record of all in-person meetings is presented **along with the full records of all correspondence in a 'Sensitive Matters Report' that is submitted to NOPSEMA separately to this EP.**

*Industry bodies newsletters*

Another method employed to help identify any additional relevant persons was to publish advertisements in the newsletters of industry bodies (such as Northern Territory Seafood Council, Broome Chamber of Commerce and Industry, Kununurra Visitors Centre and East Kimberley Chamber of Commerce and Industry) with a presence within the PEZ (Appendix B.4). As some known members of these organisations were identified as relevant persons, the objective of this approach was to try and reach further members and identify if they were relevant persons. A link and QR code for the EP summary website was included in the advertisements along with contact details (email address and phone number) for readers to provide INPEX with comments on the proposed activity. To this end, the publication of advertisements in industry body newsletters also acted in the capacity of an extended enquiry.

## Extended enquiry (broader consultation) activities

INPEX recognises that there may be instances where other persons, organisations, departments or agencies may consider themselves relevant and wish to be included in the consultation process. Therefore, as an additional proactive step, INPEX completed in-person open information sessions and undertook advertising campaigns (newspapers, radio and social media) to provide information on the proposed activity. The objective of this approach was to help identify any other relevant persons that may not have already been identified. The extended enquiry activities also provided another means of broadcasting information to existing relevant persons as well as providing an opportunity to identify new relevant persons so INPEX could enable feedback that might not have otherwise been received. As previously described in Appendix B.2, the extended enquiry approach also acted as a means for sharing information to identified relevant persons and providing an ongoing mechanism for feedback.

*Information and feedback session*

An information session was held at Broome Visitors Centre in February 2023, so that tourism operators, businesses, community environmental organisations and members of the public could talk directly with INPEX personnel about the proposed activity and provide feedback. The purpose of the open-to-all information session was to identify any persons/business operating in the PEZ that could be relevant persons. During this session no additional relevant persons were identified, with the majority of attendees representing community environmental organisations who had already been identified as relevant persons and hence had received consultation materials directly.

Broome was identified as an appropriate location for an information drop-in session given **INPEX's operational presence in Broome**. A greater level of consultation effort in this area reflects and aligns with **INPEX's strategy** to establish and maintain long-term relationships with stakeholders in key areas, namely where there is the highest likelihood for affected relevant persons to be present. In some of these cases, consultation has occurred beyond that required to solely meet the obligations of the OPGGS E regulations.

*Newspaper advertising*

Newspaper advertisements were published in Australian national, regional and local newspapers as described in Table 5-4. Copies of the advertisements are presented in Appendix B.4 and included a link/QR code for the EP summary website along with contact details (email address and phone number) for readers to provide INPEX with comments on the proposed activity. This enabled INPEX to provide information to those persons already identified as relevant and also to aid in the identification of further relevant persons previously unknown to INPEX.

Table 5-4: Newspaper advertising of the proposed activity

Newspaper	Coverage	Publication dates
The Australian	National	24 February 2023, 28 June 2023
The West Australian	Regional (WA)	24 February 2023, 28 June 2023
Sunday Times	Regional (WA)	26 February 2023, 2 July 2023
NT News	Regional (NT)	24 February 2023, 28 June 2023
Kimberley Echo	Local (WA)	02 March 2023, 29 June 2023
Northwest Telegraph	Local (WA)	01 March 2023, 28 June 2023
Pilbara News	Local (WA)	01 March 2023, 28 June 2023
Broome Advertiser	Local (WA)	01 March 2023, 29 June 2023

*Social media advertising*

In conjunction with the newspaper advertisements, social media campaigns for the proposed activity were undertaken on 7 March, 5 April and from 3 to 23 July 2023. Advertisements were posted on Facebook, Instagram and LinkedIn platforms and included a link to the EP summary website.

Between 3 and 23 July 2023, INPEX undertook further geo-targeted advertising using social media (Facebook and Instagram) with a particular focus on remote and regional Aboriginal communities. The objectives were to reach a target audience of relevant persons to inform them of the EP and provide them with information about the proposed offshore activities; and to inform them on how they can find out more and/or provide comment via the EP summary website or by phone. The campaign was geo-targeted to the following communities and an 80 km radius from each location:

- Batchelor (NT)
- Nauiyu Nambiyu (NT)
- Palumpa (NT)
- Peppimenarti (NT)
- Wadeye (NT)
- Bidyadanga (WA)
- Lombadina (WA)
- Djarindjin (WA)
- Mowanjum (WA)
- Kalumburu (WA).

#### *INPEX Australia website*

The INPEX Australia website provides an overview of INPEX Australia activities (<https://www.inpex.com.au/sustainability/environment/>). INPEX posted a short summary of the proposed exploration drilling activity on 10 January 2023 (that remains accessible) with a link inviting members of the public to provide comment on the proposal via the EP summary website.

#### *Radio advertising*

As listed in Appendix B.4, a radio advertisement campaign was broadcast between 3 July and 16 July, four times a day on five radio stations broadcasting across WA and NT with a focus on local and regional radio stations with remote **communities'** coverage (Table 5-5). Rather than use mainstream radio, stations were selected for their coverage in remote and regional areas of WA and NT and the ability to provide information/translation in a number of languages (i.e. Kriol, Murrinhpatha, Tiwi). This enabled INPEX to provide information to those persons already identified as relevant and also to aid in the identification of further relevant persons previously unknown to INPEX.

Table 5-5: Radio advertising of the proposed activity

Radio station	Region covered
6DBY – Larrkardi Radio	Derby region
6HCR – Radio Mulba	Karratha/Roebourne region
8KTR – Katherine Community Radio	Katherine region
6WR – Waringarri Radio	Kununurra region
8TEA – Top End Aboriginal Bush Broadcasting Association	Northern Territory – 29 broadcasting units including Tiwi Islands & Wadeye regions

### 5.1.3 Consultation during EP development

In January 2022, INPEX commenced consultation with relevant persons for the proposed planned activities described in this EP. A separate 30-day public comment period was also completed between May and June 2022 when the EP was published and publicly available **for comment on NOPSEMA's website (Section 5.2)**. Following the court appeal in December 2022, INPEX revised its methodology (Appendix B.2) to better reflect the intent of the court decision and commenced a second round of consultation with identified relevant persons on 13 January 2023.

The consultation period described in Appendix B.2, states that consultation with relevant persons during the development of an EP will generally run for 30 business days (six weeks). This is considered as a reasonable period for feedback to be submitted to INPEX.

Where multiple attempts have been made to contact relevant persons during a reasonable period, if no response has been received other targeted mechanisms (i.e. social media, radio and newspaper advertising) have been used to comply with INPEX's requirement to consult with relevant persons on the proposed activity. Further, relevant persons can provide feedback to INPEX via the EP summary webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation prior to the submission of the EP for the purposes of compliance with the OPPGS (E) Regulations has been completed.

*When no response is received*

**In accordance with INPEX's methodology (Appendix B.2), where no response or acknowledgement of receipt of consultation materials was received by INPEX the following actions were undertaken:**

- alternative methods of contact where appropriate and available were employed
- follow up after 20 business days (4 weeks) from issue of initial consultation materials
- final follow up 5 days prior to the closure of the consultation period
- in parallel to the above steps, INPEX also used other broader consultation methods (Section 5.1.2 Extended enquiry (broader consultation) activities) including newspaper and social media advertising as another means of broadcasting information to existing relevant persons.



### *Specific consultation approaches*

As described in INPEX's methodology (Appendix B.2) in the first instance INPEX has utilised land councils and registered prescribed body corporates to facilitate consultation with Aboriginal and Torres Strait Islander relevant persons. Since December 2022/January 2023 INPEX has engaged with the Kimberley Land Council, the Northern Land Council and the Tiwi Land Council. These land councils, although relevant persons in their own right, have provided feedback to INPEX on identifying and consulting with Traditional Owners and in some cases have assisted in co-designing appropriate strategies and plans for engagement and/or assisted INPEX by circulating sufficient information in advance of on country meetings. Although consultation for the purposes of compliance with the OPPGS (E) Regulations has been completed, INPEX is in continued dialogue with these land councils and has enabled the opportunity for feedback to be received for the duration of the activity. INPEX is aware that there may be potentially relevant persons for this EP who may be based in remote areas of WA and NT, with certain areas affected by extreme weather events, and therefore responding to consultation requests from INPEX may not be a priority. Similarly, some potentially relevant persons may have become fatigued due to an increase in industry consultation, therefore an opportunity to obtain feedback from such relevant persons was created.

#### 5.1.4 Consultation outcomes

In accordance with Regulation 16(b), consultation summary reports from the 2022 and 2023 consultation campaigns are presented as Appendix B.5 and B.6 respectively. The full records of all correspondence are provided in a '**Sensitive Matters Report**' that is submitted to NOPSEMA separately to this EP.

#### 5.1.5 Ongoing consultation

Ongoing consultation activities post-acceptance of this EP will ensure that INPEX develops and maintains a current and comprehensive view of stakeholder functions, interests and activities, and provide a forum for enquiries, objections or claims by relevant persons in during the implementation of the planned activities described in this EP.

Ongoing consultation during implementation of this EP is outlined in the implementation strategy (Section 9.8.3). Where any new information is received (Section 9.5), that is assessed as a new relevant matter or objection/claim with merit, the EP will be updated in accordance with the MoC process described in Section 9.7 ensuring that risks remain managed to ALARP and Acceptable levels.

#### 5.2 Public comment

In accordance with Regulations 9(AB) and 11(B) of the OPPGS (E) Regulations, members of the public were invited to comment on the contents of this EP. Once published on the NOPSEMA website, the EP was available for a period of 30 days between 13 May 2022 and 12 June 2022.

INPEX published notices inviting comments on the EP within the designated comment period, including:

- **The INPEX website**
- **A national newspaper** – *The Australian*
- **A state-wide daily newspaper** – *The West Australian*
- **Regional newspaper close to location of the activity** – *The Broome Advertiser*.

During the public comment period for this EP, INPEX did not receive any feedback or comments on the EP.

## 6 ENVIRONMENTAL IMPACT AND RISK ASSESSMENT METHODOLOGY

In accordance with Division 2.3, Regulation 13(5) of the OPGGS (E) Regulations 2009, an environmental risk assessment was undertaken to evaluate impacts and risks arising from the activities described in Section 3. This section describes the process in which impacts and risks were identified. A summary of the outcomes from this process are included in Section 7 and Section 8.

An environmental hazard identification workshop was undertaken for the activity. The workshop involved environmental, compliance, health, safety, emergency response, drilling engineering and well test personnel.

The workshop was undertaken in accordance with INPEX HSE Risk Management processes. The approach generally aligned to the processes outlined in International Organisation for Standardisation (ISO) 31000:2009 *Risk Management – Principles and guidelines* (Standards Australia/ Standards New Zealand, 2009) and Handbook 203:2012 *Managing environment related risk* (Standards Australia/Standards New Zealand 2012).

The environmental impact and risk evaluation process has been undertaken in nine distinct stages:

- the establishment of context
- the identification of aspects, hazards and threats
- the identification of potential consequences (severity)
- the identification of existing design safeguards and control measures
- proposal of additional safeguards (ALARP evaluation)
- an assessment of the likelihood
- an assessment of the residual risk
- an assessment of the acceptability of the residual risk
- the definition of environmental performance outcomes, standards and measurement criteria.

### 6.1 Establishment of context

The first stage in the process involved a review of legislative requirements including government policies and guidelines (Section 2 *Environmental Management Framework*). Following this the scope of the activity was defined and the existing environment reviewed to identify particular values and sensitivities of that environment. The outcomes of these exercises are presented in Section 3 *Activity Description* and Section 4 *Existing Environment*, of this EP.

### 6.2 Identification of aspects, hazards and threats

An assessment was undertaken to identify the aspects associated with the activity. An aspect is defined by ISO 14001: 2015 *Environmental Management Systems (EMS)* as:

**“An element or characteristic of an activity, product, or service that interacts or can interact with the environment”.**

The aspects were grouped to align with the INPEX BMS environment standards. A summary of the aspects identified for the activity were as follows:

- emissions and discharges
- waste management

- noise and vibration
- loss of containment
- biodiversity and conservation protection
- land disturbance (or seabed disturbance)
- social and cultural heritage protection.

Hazards are defined by the *INPEX HSE Hazard and Risk Management Standard* as:

**“A physical situation with the potential to cause harm to people, damage to property, damage to the environment”.**

As the definition suggests, for an environmental risk or impact to be realised, there needs to be a chance of exposing an environmental value or sensitivity to a hazard. If there is no credible exposure of the value or sensitivity, there is no risk of harm or damage. Subsequently, there is no potential for impact (or consequence).

Given the various receptors present in the environment, they have been refined to environmentally sensitive or biologically important receptors (values and sensitivities). They have been selected using regulations, government guidance and stakeholder feedback.

For the purposes of the evaluation, environmental values and sensitivities to be considered include the following:

- receptors that are considered socially important including socio-economic and cultural heritage values
- benthic primary producer habitat, defined by the Western Australian Environmental Protection Authority (WA EPA) Environmental Assessment Guideline No. 3 *Environmental Assessment Guidelines for Protection of Benthic Primary Producer Habitat in Western Australia’s Marine Environment* as functional ecological communities that inhabit the seabed within which algae (e.g. macroalgae, turf and benthic microalgae), seagrass, mangroves, corals, or mixtures of these groups, are prominent components
- regionally important areas of high diversity (such as shoals and banks)
- particular values and sensitivities as defined by Regulation 13(3) of the OPGGS(E) Regulations 2009:
  - the world heritage values of a declared World Heritage property within the meaning of the EPBC Act
  - the national heritage values of a National Heritage place within the meaning of the EPBC Act
  - the ecological character of a declared Ramsar wetland within the meaning of the EPBC Act
  - the presence of a listed threatened species or listed threatened ecological community within the meaning of the EPBC Act
  - the presence of a listed migratory species within the meaning of the EPBC Act
  - any values and sensitivities that exist in, or in relation to, part or all of:
    - a Commonwealth marine area within the meaning of the EPBC Act – Note that this value and sensitivity includes receptors (e.g. planktonic and benthic communities) that, when exposed, have the potential to affect regionally significant ecological diversity and productivity from benthic and planktonic communities

- Commonwealth land within the meaning of the EPBC Act.
- biologically important areas associated with EPBC-listed species.

### 6.3 Identify potential consequence

In sections 7 and 8, for each aspect, the greatest consequence (or potential impact) of an activity, is evaluated with no additional safeguards or control measures in place. This allows the assessment to be made on the maximum foreseeable exposure of identified values and sensitivities to the hazard taking into account the extent and duration of potential exposure. The consequence is defined using the INPEX Risk Matrix (Figure 6-1).

Given that the receptors, identified as particular values and sensitivities are the most regionally significant or sensitive to exposure, these are considered to present a credible worst-case level of consequence to assess against for environmental impact and impacts to cultural and social heritage.

### 6.4 Identify existing design safeguards/controls

Control measures associated with existing design are then identified to prevent or mitigate the threat and/or its consequence(s). These controls may relate to the implementation strategy of this EP and have relevant environmental performance outcomes and standards presented in Section 9.

### 6.5 Propose additional safeguards (ALARP evaluation)

Where existing safeguards or controls have been judged during the evaluation as inadequate to manage the identified hazards (on the basis that the criteria for acceptability is not met as defined in Section 6.8), additional safeguards or controls are proposed.

The INPEX *HSE Hazard and Risk Management Standard* describes the process in which additional engineering and management control measures are identified, taking account of the principle of preferences illustrated in Figure 6-2. The options were then systematically evaluated in terms of risk reduction. Where the level of risk reduction achieved by their **selection was determined to be grossly disproportionate to the "cost" of implementing the** identified control measures, the control measure will not be implemented, and the risk is considered ALARP. Cost includes financial cost, time or duration, effort, occupational health and safety risks, or environmental impacts associated with implementing the control.

### 6.6 Assess the likelihood

The likelihood (or probability) of a consequence occurring was determined, taking into account the control measures in place. The likelihood of a particular consequence occurring was identified using one of the six likelihood categories shown in Figure 6-1.

### 6.7 Assess residual risk

Once any additional controls/safeguards have been considered, the residual risk is then evaluated and ranked.

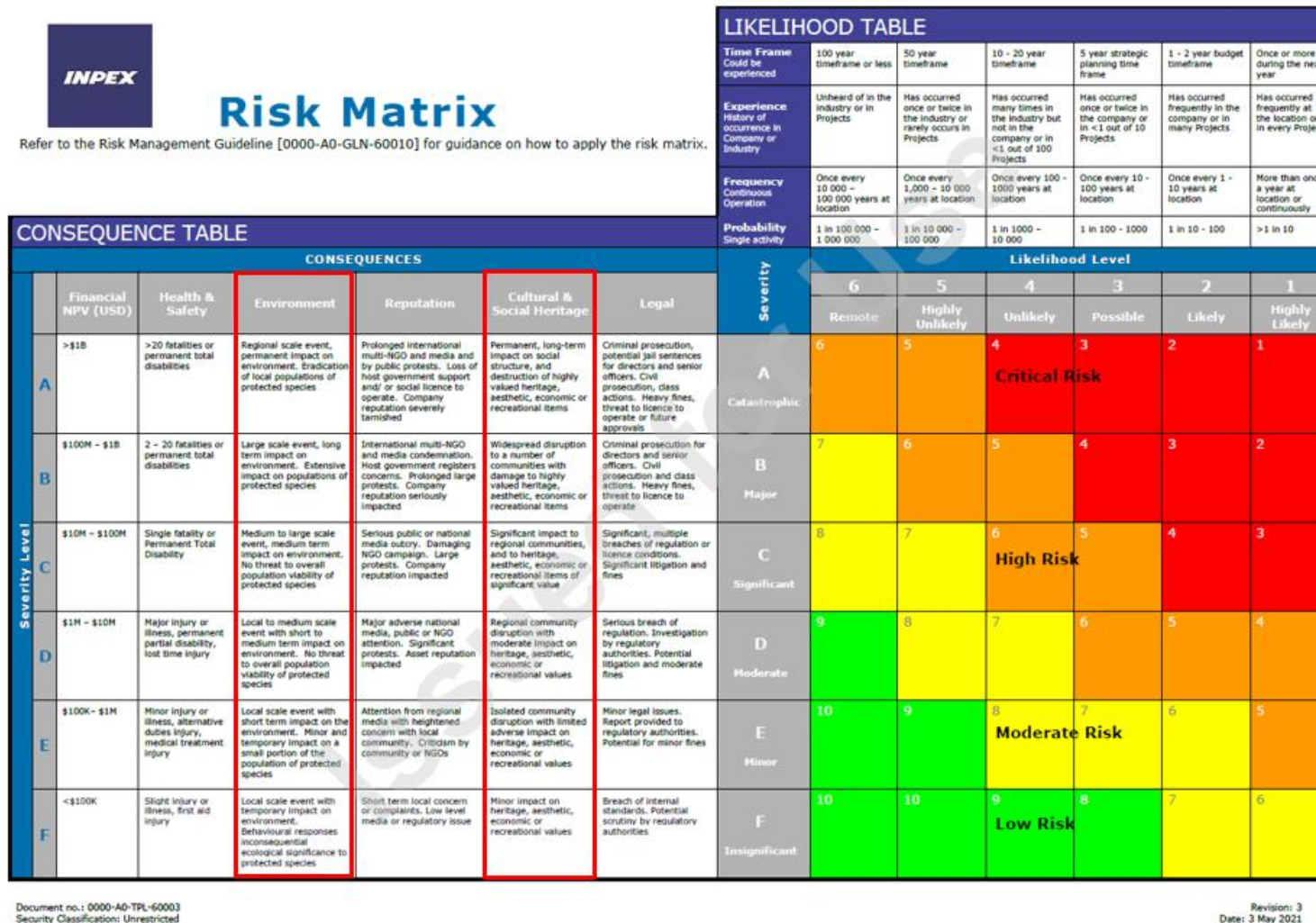


Figure 6-1: INPEX risk matrix

	<b>Elimination</b>		Removal of the hazard or sensitive receptor
	<b>Substitution</b>		Replacement of highly hazardous materials / approaches with less hazardous materials / approaches
	<b>Engineering</b>	<b>Prevention</b>	Design measures that reduce the likelihood of a hazardous event occurring
		<b>Detection</b>	Design measures that facilitate early detection of a hazardous event
		<b>Control</b>	Design measures that limit the extent/escalation potential of a hazardous event
		<b>Mitigation</b>	Design measures that protect the environment should a hazardous event occur
		<b>Response Equipment</b>	Design measures or safeguards that enable clean-up / response following the realisation of a hazardous event
<b>Procedures &amp; Administration</b>		Management systems and work instructions used to prevent or mitigate environmental exposure to hazards	

Figure 6-2: ALARP options preferences

6.8 Assess residual risk acceptability

Potential environmental impacts and risks are only deemed acceptable once all reasonably practicable alternatives and additional measures have been taken to reduce the potential impacts and risks to ALARP.

INPEX has determined that risks rated as “Critical” are considered too significant to proceed and are therefore, in general, unacceptable. In alignment with NOPSEMA’s *Environment Plan Decision Making Guideline* (NOPSEMA 2022e), INPEX considers that when a risk rating of “Low” or “Moderate” applies, where the consequence does not exceed “C” (Significant) and where it can be demonstrated that the risk has been reduced to ALARP, that this defines an acceptable level of impact.

Through implementation of this EP, impacts to the environment will be managed to ALARP and acceptable levels and will meet the requirements of Section 3A of the EPBC Act (principles of ecologically sustainable development) as shown in Table 6-1.

Table 6-1: Principles of ecological sustainable development (ESD)

Principles of ESD	Demonstration
a) decision-making processes should effectively integrate both long-term and short-term economic, environmental, social and equitable considerations;	The INPEX health, safety, security, environment and quality policy (Figure 9-2). INPEX HSE Hazard and Risk Management Standard and the INPEX BMS (Section 9) consider both long-term and short-term economic, environmental, social and equitable considerations.
(b) if there are threats of serious or irreversible environmental damage, lack of full scientific certainty should not be used as a reason for postponing measures to prevent environmental degradation;	No threat of serious or irreversible environmental damage is expected from the activity. Scientific knowledge is available to support this, and processes are in place to ensure that INPEX remains up-to-date with scientific publications (Section 9.13).
(c) the principle of inter-generational-equity - that the present generation should ensure that the health, diversity and productivity of the environment is maintained or enhanced for the benefit of future generations;	The health, diversity and productivity of the environment shall be maintained and not impacted by the activity.
(d) the conservation of biological diversity and ecological integrity should be a fundamental consideration in decision-making;	Biological diversity and ecological integrity will not be compromised by the activity.
(e) improved valuation, pricing and incentive mechanisms should be promoted.	N/A

Consequently, the potential environmental impacts and risks associated with implementing the activity were determined to be acceptable if the activity:

- complies with relevant environmental legislation and corporate policies, standards, and procedures specific to the operational environment
- takes into consideration relevant person feedback
- takes into consideration conservation management documents
- does not compromise the relevant principles of ESD; and
- the predicted level of impact does not exceed the defined acceptable level, in that **the environmental risk has been assessed as "Low" or "Moderate", the consequence does not exceed "C – Significant" and the risk has been reduced to ALARP.**

## 6.9 Definition of performance outcomes, standards and measurement criteria

As defined in Regulation 4 of the OPGGS (E) Regulation, INPEX has used environmental performance outcomes and performance standards to address potential environmental impacts and risks identified during the risk assessment.

Environmental performance outcomes, standards, and measurement criteria that relate to the management of the identified environmental impacts and risks are defined as follows:

- environmental performance outcome (EPO) means a measurable level of performance required for the management of environmental aspects of an activity to ensure that environmental impacts and risks will be of an acceptable level.
- environmental performance standard (EPS) means a statement of the performance required of a control measure.
- measurement criteria are used to determine whether each environmental performance outcome and environmental performance standard has been met.



## 7 IMPACT AND RISK ASSESSMENT

Following the environmental impact and risk assessment methodology described in Section 6, the aspects, hazards and threats have been systematically identified. The aspects (and associated hazards) with the potential for impact or risk in relation to the relevant identified values and sensitivities are discussed in the following section and in Section 8.

7.1 Emissions and discharges

7.1.1 Light emissions

Table 7-1: Impact and risk evaluation – change in ambient light levels from flaring and navigational lighting on MODU and vessels

Identify hazards and threats	
<p>Light emissions have the potential to disturb light-sensitive marine fauna, specifically marine turtles, seabirds and migratory bird species, through localised attraction to light that may result in behavioural changes.</p> <p>Flaring will occur during the DST (Section 3.3.1 <i>Drill stem test</i>) for each well. A multi-rate DST will be conducted at various gas flow rates to establish baseline well deliverability and to obtain reservoir fluid samples and estimate key formation parameters. The estimated timing for DST operations will be approximately 72 – 96 hours per test in total. Continuous flaring will not occur for the entire duration of the test but is expected to last for approximately 36 hours. A DST will be undertaken per primary target in each well (up to two per well). In addition to flaring, light emissions will also be generated from MODU and vessel lighting (necessary for navigational and safe working condition requirements).</p> <p>It should be noted that the INPEX Ichthys interlinked facility (CPF and FPSO) is present within WA-50-L, located adjacent to WA-285-P and located approximately 45 km south of WA-343-P. The facility is equipped with flares that are permanently lit with a limited amount of pilot gas. During normal production operations, continuous operational flaring does not occur. However, there are some circumstances under which flaring is required in order to protect the integrity of the facility and to prevent harm to personnel, the environment and equipment. The levels of flaring (gas flow rates and duration) associated with DSTs to be undertaken on the MODU in WA-285-P and WA-343-P is considerably lower than flaring events associated with process upset/manual or emergency blowdown at the Ichthys facility.</p>	
Potential consequence	Severity
<p>The particular values and sensitivities identified as having the potential to be impacted by light emissions from flaring and navigational lighting are:</p> <ul style="list-style-type: none"> <li>• marine turtles (including the 20 km interesting green turtle BIA at Browse Island)</li> <li>• marine avifauna.</li> </ul>	Insignificant (F)

Behavioural changes reported in marine turtles exposed to increases in artificial lighting can include disorientation and interference during nesting (Pendoley 2005; DCCEEW 2023k). Disorientation of adult marine turtles or hatchlings has been known to result in risks to the survival of some individuals through excess energy expenditure or increased likelihood of predation (Witherington & Martin 2000; Limpus et al. 2003). The effect of light emissions resulting in disruption to turtle orientation and behaviour has been observed from up to 18 km away (DCCEEW 2023k) and the National Light Pollution Guidelines for Wildlife (DCCEEW 2023k) recommends that a 20 km buffer for assessment of impacts be considered around important habitat for turtles. Browse Island (listed as a C-class reserve) is the closest turtle-nesting area (located approximately 19 km south-east of WA-285-P and 68 km south of WA-343-P at the closest points) and is surrounded by a 20 km internesting buffer for green turtles between November and March (DEE 2017a) as described in Section 4.9.4. The location of the well in WA-285-P will be in the south-west of the permit area as indicated by the shaded area in Figure 1-1, approximately 40 km from Browse Island at its closest point. **Therefore, although light may be visible to green turtles within the internesting buffer it isn't expected to result in any behavioural responses given the light source will be approximately 20 km from the boundary of the BIA.** Satellite tracking data reviewed in recent studies (Ferreira et al 2020; Thums et al, 2021) concluded that the spatial extent of internesting areas was adequately covered by the defined internesting buffers and therefore afforded an appropriate level of protection. However, the spatial extents of foraging BIAs are considered to potentially underestimate the distribution of foraging turtles. The closest turtle foraging BIAs relate to Ashmore Reef, Cartier Island and Scott Reef (Figure 4-6).

Shell (2009) estimated that light from production flaring activities can be detected as far as 51 km from the source. Similarly, an assessment by Woodside (2014) for the Browse FLNG development reported that the maximum distance at which production flaring under routine operational conditions was detectable was 47.9 km. However, in the event of emergency flaring, **Woodside's assessment reported that light may be visible up to ten kilometres further than during normal operating conditions.** The potential effect of direct light from a flare tip is mitigated by the reduction in intensity of light, which diminishes with the square of the distance (i.e. light is reduced to one-hundredth of the initial intensity after 10 m, one ten thousandth after 100 m, etc.) and by the spectral range of the emitted light. Gas flares emit measurable light energy over the whole range of visible and near infrared wavelengths, with peak intensities in the spectral range from 750 to 900 nanometers (Hick 1995), while the most disruptive wavelengths to turtles are reported to be in the range of 300 to 600 nanometers (Tuxbury & Salmon 2005; Witherington 1992; DCCEEW 2023k). Therefore, light emissions that may be visible to turtles at Browse Island or in the surrounding 20 km internesting BIA from temporary flaring during DST operations is primarily of the wrong spectral range to cause any disturbance are not expected to affect the behaviour of the marine turtle population in this area.

Turtle hatchlings primarily use light cues to orient to water but may also use other secondary cues such as beach slope (DCCEEW 2023k), once in the water they generally maintain seaward headings by using wave propagation direction as an orientation cue (Lohmann & Fittinghoff-Lohmann 1992). Adult turtles undertaking internesting, migration, mating or foraging activities do not use light cues to guide these behaviours and there is no evidence, published or anecdotal, to suggest that internesting, mating, foraging or migrating turtles are impacted by light emissions (Woodside 2020).

The light emissions associated with flaring during DST operations will be on an infrequent basis (up to two occasions per well) and short duration (< 36 hours). As with light emissions generated from flaring, MODU and vessel navigational and deck lighting is also not expected to cause any discernible effect on adult turtles' or hatchlings' abilities to orientate to water at Browse Island. The potential for light from flaring on the MODU to attract marine turtles once they are at sea is expected to be temporary with an inconsequential ecological significance (Insignificant F).

If concurrent drilling operations were to occur during the activity, including the ongoing Ichthys drilling campaign in nearby WA-50-L, increased light emissions would be associated with MODU/vessel lighting or flaring and is not expected to result in significantly increased light emissions. The Recovery Plan for Marine Turtles in Australia (DEE 2017a) states that based on the long-life span and highly dispersed life history requirements of marine turtles, they may be subject to multiple threats acting simultaneously across their entire life cycle, such as increases in background noise levels and vessel strike. In considering cumulative impacts of threats on small or vulnerable stocks of marine turtles, it is possible that light emissions may act as contributor to a stock level decline.

As described in Section 4.9.4, the permit areas are located within the EAA Flyway, an internationally recognised migratory bird pathway that covers the whole of Australia and its surrounding waters. The migration of marine avifauna through the EAA Flyway generally occurs at two times of year, northward between March and May and southward between August and November (Bamford et al. 2008; DEE 2017b). Artificial light can attract and disorient seabirds, disrupt foraging and potentially cause injury and/or death through collision with infrastructure (DCCEEW 2023k). Adult seabirds are less impacted by artificial lighting than fledglings (Commonwealth of Australia 2020). Nocturnal birds are at much higher risk of impact (Wiese et al. 2001; DCCEEW 2023k); however, there are no threatened nocturnal migratory seabirds that use the EEA Flyway (DEWHA 2010). Marine avifauna are highly, visually orientated and where bird collision incidents have been reported by industry, low visibility weather conditions (cloudy, overcast and foggy nights) are usually implicated as the major contributing factor and there are seldom collision incidents on clear nights (Wiese et al. 2001). Conditions in the permit areas are not conducive to fog formation with most rainfall associated with the monsoon season between December and March which is outside the periods of bird migration (Bamford et al. 2008).

Where there is important habitat for seabirds within 20 km of a project, the National Light Pollution Guidelines for Wildlife (DCCEEW 2023k) recommends that consideration be given as to whether light is likely to have an effect on those birds. There are no BIAs for marine avifauna that overlap WA-285-P or WA-343-P. However, the PEZ overlaps several Ramsar sites, with the closest located at Ashmore Reef and several nationally important wetlands (Section 4.6). While not an identified BIA, the closest habitat for seabirds from the permit areas is Browse Island. Browse Island is not a regionally significant habitat for seabirds, with previous surveys finding a lack of diversity of seabirds breeding there (Clarke 2010). Colonies of nesting crested terns (>1,000 birds) have been observed on Browse Island (Olsen et al. 2018).

<p>Migratory shorebirds travelling the EAA Flyway may fly over the permit areas, before moving on to the mainland (south) in the spring or Indonesia/Australian External Territories (north) in the autumn. It is possible that migratory birds may use ships and other offshore facilities in order to rest. However, the possibility of this occurring on the MODU or vessels associated with the activity in WA-285-P and WA-343-P is considered to be low due to the short duration of flaring and the presence of alternative habitat for resting and foraging at Browse Island and Ashmore Reef/Cartier Island, resulting in minimal deviation from migratory pathways and limited potential for behavioural disruption. Therefore, any impact to seabirds or migratory birds from light emissions associated with the MODU (including flaring) and vessels is considered to be of inconsequential ecological significance (Insignificant F).</p>			
<p>Identify existing design and safeguards/controls measures</p>			
<ul style="list-style-type: none"> <li>Vessel personnel will receive an induction/training to inform them of the requirements to minimise external artificial lighting in accordance with Table 9-3.</li> </ul>			
<p>Propose additional safeguards/control measures (ALARP Evaluation)</p>			
Hierarchy of control	Control measure	Used?	Justification
Elimination	Do not use lighting at night-time.	No	Lighting is required for navigational and safety purposes and cannot be eliminated. This is in accordance with the <i>Navigation Act 2012</i> and associated Marine Orders (which are consistent with COLREGS requirements). Unnecessary outdoor/deck lighting is already eliminated.
	No flaring during DST	No	Given the expected gas flow rates resulting during the DST, there is no other mechanism for the safe disposal of gas on the MODU other than flaring. The gas could be disposed by venting; however, this is considered to have a higher environmental impact than flaring with respect to greenhouse gas emissions.
Substitution	Exclude vessel lighting during sensitive periods for marine avifauna and turtles (internesting November – April)	No	In general, bird migrations occur over several months of the year: between March and May (northward) and between August and November (southward) (Bamford et al., 2008). Internesting at Browse Island (20 km buffer) occurs between November to March for green turtles (DEE 2017a).

			Lighting of MODU/vessels is required year-round to ensure the safety of workers and the environment and cannot be eliminated for certain periods during the year. Therefore, substituting the timing of activities would offer no benefit as it is possible that there will be sensitive periods for marine avifauna and turtles on a year-round basis.
	Exclude flaring during key periods for bird migration.	No	Flaring during the DST is required to safely dispose of the gas. The <b>duration of each well's flaring event is limited (expected to be approximately 36 hours per well on up to two occasions)</b> and is relatively short-term. DST timing will be dictated by the MODU drilling schedule and it is not considered practicable to exclude flaring during bird migrations (March and May (northward) and between August and November (southward)) based on the short duration of flaring and inconsequential ecological significance.
	Exclude flaring during key periods for marine turtles	No	<p>The effect of light emissions resulting in disruption to turtle orientation and behaviour has been observed from up to 18 km away (DCCEEW 2023k). WA-285-P, at its closest point is approximately 19 km from Browse Island and therefore a small portion of the permit overlaps the 20 km internesting buffer. The well location within WA-285-P is to the south-west of the permit area, approximately 40 km from Browse Island (Figure 1-1). Although light from flaring during the DST in WA-285-P may be visible to turtles in the internesting BIA at Browse Island, research has indicated that turtles generally stay within 10 km of their nesting beaches and given the short duration of flaring (approximately 36 hours) any impacts to green turtles in the BIA are expected to be temporary.</p> <p>Therefore, excluding flaring during key periods (November to March) is not considered practicable given the requirement to flare as a mechanism for the safe disposal of gas. DST timing will be dictated by the MODU drilling schedule and flaring is a short duration event (approximately 36 hours).</p>

Engineering	Reduce light intensity and/or frequencies which may attract turtles.	No	<p>Lighting will be designed in accordance with the relevant Australian and international standards to ensure that worker and MODU/vessel safety is not compromised.</p> <p>The deployment of low-pressure sodium vapour lamps or other technologies which reduce/eliminate frequencies which have been shown to attract turtles would not result in any significant benefit regarding turtle hatchling attraction from the nesting beaches given the wave-front orientation cues (rather than light cues) of hatchlings once they are in the ocean.</p>
	Light shielding.	No	<p>The deployment of light shielding on MODUs/vessels to reduce light spill would not result in any significant benefit regarding turtle hatchling attraction from the nesting beaches given the wave front orientation cues (rather than light cues) of hatchlings once they are in the ocean.</p>
Procedures & administration	Limit the duration and frequency of planned night-time-based activities such as flaring associated with DST operations during key sensitive periods for marine turtles and avifauna.	No	<p>DST timing will be dictated by the MODU drilling schedule and it is not considered practicable to exclude night-time flaring during key sensitive periods for marine turtles and avifauna as it is possible that there will be sensitive periods for these receptors on a year-round basis.</p> <p>Flaring during DST operations is already limited to up to two tests per well and for a short duration (approximately 36 hours). The duration of flaring cannot be scheduled to only occur during daylight hours (thereby avoiding light emissions at night) as flaring needs to be continuous in order to evaluate the rate dependent skin, which is key information for gas-condensate development. At least three consecutive flow periods with different flow rates are required for the firm evaluation and this data cannot be collected if flaring is limited to daylight hours only.</p>
	Premobilisation review and planning of MODU/vessel lighting to be undertaken prior to activities (pre-drill survey and exploration drilling) commencing.	Yes	<p>MODUs/vessels will maintain the minimum navigational and deck lighting to provide safe working conditions. The worst-case consequence of light impacts for all identified receptors at all times of the year has been assessed as Insignificant (F).</p>

			Given artificial light sources in proximity to the permit areas (notably WA-285-P), such as the Ichthys facility permanently located in neighbouring WA-50-L, and the lighthouse on Browse Island (Section 4.4.2), flaring or external MODU/vessel lighting will not result in additional light impacts. Nevertheless, a review of deck lighting will be undertaken pre-mobilisation HSE inspection of MODU/vessels to ensure external lighting is minimised where practicable.
	Implementation of a seabird management plan to prevent seabird landings on MODUs/vessels due to attraction from artificial lighting.	No	<p>A seabird management plan to prevent seabird landings on MODUs/vessels and to help manage birds appropriately is a recommendation as a consideration for vessels working in seabird foraging areas during breeding season (DCCEEW 2023k).</p> <p>As shown in Figure 4-8, WA-343-P and WA-285-P do not overlap any avifauna foraging areas and the closest areas are situated around Ashmore Reef/Cartier Island to the north, Adele Island to the south and Scott Reef to the west. There have been no reported issues with seabirds interacting with Ichthys facilities in WA-50-L. Therefore, this control is not considered necessary.</p>
	Implementation of a light management plan to prevent impacts to marine turtles from artificial lighting on MODU/vessels.	No	<p>The effect of light emissions resulting in disruption to turtle orientation and behaviour has been observed from up to 18 km away (DCCEEW 2023k). The location of the activity in WA-285-P (Figure 1-1) may be located approximately 40 km from Browse Island at its closest point. Although light from flaring and MODU/vessels in WA-285-P may be visible to turtles in the interesting BIA at Browse Island, research has indicated that turtles generally stay within 10 km of their nesting beaches. Given the short duration of activities (pre-drill survey approximately 10 days; exploration drilling approximately 95 days; flaring during DST approximately 36 hours) any impacts to green turtles in the BIA are expected to be temporary and this control is not considered necessary.</p>
Identify the likelihood			



Although light may potentially be visible, given the distance from the proposed well locations within WA-343-P and WA-285-P to the closest turtle nesting beaches (approximately 68 km and 40 km to Browse Island respectively at the closest points) and short duration of the activities (pre-drill survey, exploration drilling and flaring during DST), impacts to turtles from light emissions is Highly Unlikely (5). While impacts to seabirds from lighting of offshore platforms and vessels have been reported in the industry (Birdlife International 2012), given the presence of alternative resting/foraging habitat (Browse Island) and that there are several other permanently moored offshore installations in the vicinity such as the Ichthys facility in WA-50-L, with no records published on the attraction of seabirds or negative impacts to migratory seabirds from lighting, the likelihood of impact to these receptors from the lighting of the MODUs/vessels is considered Highly Unlikely (5).

Residual risk summary

Based on a consequence of Minor (E) and a worst-case likelihood of Highly Unlikely (5) the residual risk is Low (9).

Consequence	Likelihood	Residual risk
Minor (E)	Highly Unlikely (5)	Low (9)

Assess residual risk acceptability

Legislative requirements

Navigational lighting is required under the *Navigation Act 2012* (which is consistent with COLREGS requirements) for the safe operation of facilities and vessels. The MODU and vessels have been designed to meet Australian and international standards for safety purposes, including the requirements of the *Navigation Act 2012*. The National Light Pollution Guidelines for Wildlife (DCCEEW 2023k) has been used to ensure that the activities covered by this EP align with the guideline (see below conservation management plans/threat abatement plans).

Relevant person consultation

During EP stakeholder consultation, the WA DBCA recommended that INPEX refer to the Commonwealth Department of Agriculture, Water and the **Environment's National Light Pollution Guidelines for Wildlife** as a best-practice industry standard for managing potential impacts of light pollution on marine fauna. The guidelines have been used to ensure that the activities covered by this EP align with the outcomes and recommendations outlined in the guidelines. In addition, AMSA identified that lighting of vessels should be consistent with the requirements of the COLREGS requirements. As noted above all vessels are required to comply with the *Navigation Act 2012*, and associated Marine Orders, which are consistent with the COLREGS requirements.

There were no other relevant person concerns raised regarding potential impacts and risks from light emissions due to flaring or MODU/vessel lighting.

Conservation management plans / threat abatement plans

Several conservation management plans have been considered in the development of this EP (refer Appendix A.2). DCCEE (2023k) states that **“natural darkness has a conservation value in the same way that clean water, air and soil has intrinsic value”** and that artificial light has the potential to stall the recovery of a threatened species. The activities covered by this EP align with the guideline.

ALARP summary

Although the level of environmental risk is assessed as Low, a detailed ALARP evaluation was undertaken to determine what additional control measures could be implemented to reduce the level of impacts and risks. No additional controls, beyond those identified during the detailed ALARP assessment can reasonably be implemented to further reduce the risk of impact.

Acceptability summary

Based on the above assessment, the risk of impacts is managed to acceptable levels because:

- the activity demonstrates compliance with legislative requirements/industry standards
- the activity takes into account relevant person feedback
- the activity is managed in a manner that is consistent with the intent of conservation management documents
- the activity does not compromise the relevant principles of ESD
- the predicted level of impact does not exceed the defined acceptable level in that the environmental risk has been assessed as “low”, the consequence does not exceed “C – significant” and the risk has been reduced to ALARP.

Environmental performance outcomes	Environmental performance standards	Measurement criteria
Activities are managed in a manner that minimises potential light impacts to marine avifauna and turtles.	Premobilisation and ongoing HSE inspections confirm that MODU and vessel lighting is reviewed to reduce unnecessary lighting.	Premobilisation HSE inspection records Monthly environmental checklist
Refer to Table 9-3		

7.1.2 Atmospheric emissions

Table 7-2: Impact and risk evaluation – atmospheric emissions from flaring, MODU and vessels

Identify hazards and threats	
<p>Atmospheric emissions (GHG such as CO<sub>2</sub> and CH<sub>4</sub>; non-GHG such as sulphur dioxide and nitrogen oxides) will be generated through flaring during DST operations (approximately 36 hours per test, up to two tests per well), the use of combustion engines, compressors, steam generators and ODS containing equipment on board the MODU and vessels. In addition to these sources, emissions associated with venting of gas from the reservoir may occur during drilling operations (Section 3.3.2), venting may also occur to avoid emergency conditions e.g. in the event of a well-kick.</p> <p>Atmospheric emissions from the petroleum activity will contribute to overall GHG concentrations and have the potential to result in localised changes in air quality and subsequent exposure of marine avifauna to air pollutants. Expected direct GHG emissions have been estimated for the activity and are presented in Section 3.5.</p>	
Potential consequence	Severity
<p>The particular values and sensitivities identified as having the potential to be impacted by atmospheric emissions are:</p> <ul style="list-style-type: none"> <li>• climate</li> <li>• marine avifauna.</li> </ul> <p>The various sources of atmospheric emissions generated from the activity will add to overall global GHG concentrations. The contribution arising from vessels and the MODU (such as from fuel use) and from flaring will be relatively short term and temporary in duration and insignificant in volume on a global scale. Therefore, the potential consequence is considered to be Insignificant (F).</p> <p>As described in Section 4.9.4, the permit areas are located within the EAA Flyway an internationally recognised migratory bird pathway that covers the whole of Australia and its surrounding waters. The migration of marine avifauna through the EAA Flyway generally occurs at two times of year, northward between March and May and southward between August and November (Bamford et al. 2008; DEE 2017b). There are no BIAs for marine avifauna that overlap either WA-285-P or WA-343-P. However, the PEZ overlaps several Ramsar sites, with the closest located at Ashmore Reef and several nationally important wetlands (Section 4.6). Additionally, a large number of BIAs for many marine avifauna species are present within the region (Figure 4-8), the closest of which relate to foraging around Adele Island, where the BIA boundary is 35 km south of WA-285-P at its closest point, and Ashmore Reef and Cartier Island where the foraging BIA boundary is 10 km north of WA-343-P at its closest point. While not an identified BIA, the closest habitat for seabirds for both permit areas is Browse Island. Browse Island is not a regionally significant habitat for seabirds, with previous surveys finding a lack of diversity of seabirds breeding there (Clarke 2010). Colonies of nesting crested terns (&gt;1,000 birds) have been observed on Browse Island (Olsen et al. 2018).</p>	<p>Insignificant (F)</p>

In the absence of air quality standards or guidelines specifically for marine avifauna, human health air quality standards and guidelines have previously been used as a proxy for the assessment of atmospheric emissions from offshore production facilities and potential impacts to marine avifauna. The outcome of such assessments concluded that NO<sub>2</sub> concentrations may typically exceed long term (annual average) concentrations within a few km of the emissions source and that short-term (1-hour average) exposure levels may be exceeded within a few hundred metres (i.e. 200-400 m) of the emission source (RPS APASA 2014). This assessment was undertaken for a production facility and therefore any changes in air quality resulting from the MODU/vessel, short-term flaring (< 36 hours per well during DST) and equipment emissions in WA-285-P and WA-343-P are also predicted to be highly localised given the nature of the emissions are less than those from a production facility.

There may be temporary increases in emissions (e.g. hydrocarbon gases and H<sub>2</sub>S) as a result of venting during drilling operations, DST operations or a well-control event. This is not expected to result in a significant increase in exposure to marine avifauna as emissions will rapidly disperse following release in the open marine environment and the potential for exposure remains limited to the immediate vicinity of the vents.

A review of the human health and environmental effects of the various air pollutants, as described in the National Pollutant Inventory, indicates that short-term exposures to significant concentrations of pollutants such as CO, NO<sub>x</sub>, SO<sub>2</sub>, VOCs, and fine particles, could cause symptoms such as irritation to eyes and respiratory tissues, breathing difficulties, and nausea (Manisalidis et al. 2020). Limited literature has been published on the vulnerability of avian species to air pollutants. The avian respiratory system, unlike the mammalian respiratory system, is characterised by unidirectional airflow and cross-current gas exchange, features that improve the efficiency of respiration. Therefore, birds are more likely to be susceptible to high concentrations of reactive gases, aerosols and particles in the air than mammals; and are considered to be useful indicators of air quality (Sanderfoot & Holloway 2017). Exposure to air pollutants may cause respiratory distress in birds, increasing their susceptibility to respiratory infection and may impair the avian immune response (Sanderfoot & Holloway 2017). As a worst case, it is conservatively assumed that a small number of individual marine avifauna may develop some short-term symptoms if they remain in the immediate vicinity of an emissions source where the pollutants are most concentrated. However, rapid recovery is expected after individuals move away from the source and any symptoms are not expected to occur. Chronic exposures are not considered plausible given that marine avifauna would move away (i.e. continue migration or undertake foraging activities elsewhere).

Concurrent drilling operations may occur during the activity either with MODUs operating in both WA-285-P and WA-343-P and also the continued Ichthys drilling operations in the nearby in WA-50-L production licence area. Given the distance (tens of km) between any concurrently operating MODUs, localised atmospheric emissions are not expected to result in cumulative impacts to marine avifauna. If marine avifauna are exposed at all, they are only expected to be exposed to changes in air quality for short periods as they pass close to emissions sources. Chronic exposures are not considered plausible.

Overall, the consequence of temporary, localised changes in air quality may result in short-term, sublethal effects to a small number of transient marine avifauna individuals and is therefore considered Insignificant (F).

Identify existing design and safeguards/controls measures

- MODUs and vessels will comply with the air emission requirements of Marine Order 97 (as applicable to vessel and engine size, type and class) including sulfur content of fuel oil
- MODUs and vessels (as applicable to vessel and engine size, type and class) will comply with ODS requirements of Marine Order 97
- MODUs and vessels (as applicable to vessel, engine/propulsion size, type and class) will comply with energy efficiency requirements of Marine Order 97
- Measurement and monitoring of emissions data to enable legislative reporting requirements under the NGER Act to be met for the petroleum activity.

Propose additional safeguards/control measures (ALARP Evaluation)

Hierarchy of control	Control measure	Used?	Justification
Elimination	Eliminate the use of MODU/vessels	No	The use of MODU/vessels to undertake the activity cannot be eliminated.
	No flaring during DST operations	No	Given the expected gas flow rates resulting during DST operations, there is no other mechanism for the safe disposal of gas on the MODU other than flaring. The gas could be disposed by venting; however, this is considered to have a higher environmental impact than flaring with respect to GHG emissions.
Substitution	Replace any ODS systems	No	In accordance with MARPOL Regulation 12, no CFC or halon containing system or equipment is permitted to be installed on ships constructed on or after 19 May 2005 and no new installation of the same is permitted on or after that date on existing ships. Similarly, no HCFC containing system or equipment is permitted to be installed on ships constructed on or after 1 January 2020 and no new installation of the same is permitted on or after that date on existing ships.  Therefore, only older vessels are considered to potentially have ODS systems installed as confirmed on the IAPP certificate. The costs to retrofit ODS equipment and replace systems are not considered to be warranted given they are being phased out in accordance with MARPOL and it may restrict vessel selection and availability in the short term.
	Select moored MODU based on fuel consumption (emissions generation)	No	MODU selection criteria prioritises technical capability including drilling location water depth, top drive and mud pump capacity and when considering mooring, capability for demobilisation in extreme weather events. Regional market availability may also limit the ability to contract suitable MODUs based on its mooring system.

			<p>Given the delta observed between moored and dynamic positioned (DP) MODU emissions contribution (10-15% of total campaign emissions), technical requirements, availability and cost associated with selection would be prioritized to ensure a capable MODU is contracted for the activity.</p> <p>Moored MODUs increase the risk to seabed disturbance impacts which may negate emissions reduction.</p>
Engineering	None identified	N/A	N/A
Procedures & administration	Preventative maintenance system	Yes	MODU/vessel contractors have a preventative maintenance system in place to ensure diesel powered, power generation equipment is maintained and operated within original equipment manufacturers' (OEM) specification. The implementation of this control will result in greater energy efficiency and therefore contribute to a reduction in emissions associated with the petroleum activity.
	Implement International Finance Corporation (IFC) Environment, Health and Safety (EHS) Guidelines – Offshore Oil and Gas Development (2015) applicable for flaring activities.	Yes	INPEX will verify that the MODU contractor will comply with IFC EHS guidelines with respect to maximising flaring efficiency and thereby reducing potential atmospheric emissions associated with flaring during DST operations. The implementation of this control will contribute to a reduction in emissions associated with the petroleum activity.
	DST procedure (well test package) implemented for flaring operations.	Yes	This procedure includes a continuous 24/7 flare watch to observe and monitor flaring operations and function testing of ignition and pilot systems to ensure burning efficiency thereby reducing potential atmospheric emissions. Function testing of continuous ignition system and pilot system is also covered by the procedure.
	NOPSEMA accepted WOMP and accepted MODU safety case and safety case revision includes aspects relevant to controls in place to minimise gas venting in the event of a well-kick.	Yes	INPEX and MODU contractor will comply with the regulatory requirements of the OPGGS (Resource Management and Administration) Regulations 2011 (Cwlth) and the OPGGS (Safety) Regulations 2009 by ensuring the drilling activity is carried out in accordance with the accepted WOMP and safety case.

	<p>MODU contractor Well Control Manual will cover all aspects of primary and secondary well control for drilling operations that includes aspects relevant to controls in place to minimise gas venting in the event of a well-kick.</p>	<p>Yes</p>	<p>INPEX will ensure the Well Control Bridging Document aligns requirements <b>of the contractor's Well Control Manual with the requirements of the INPEX Well Integrity Standard and INPEX Well Operations Standard.</b> This will ensure that in the event of a requirement to vent gas (e.g. from a well-kick), the influx volume can be minimised and therefore reduce the overall volume of gas vented to atmosphere.</p>
	<p>INPEX will support contractor emissions reduction programs so they can identify and implement areas where they can reduce emissions.</p>	<p>Yes</p>	<p>Where applicable, INPEX Australia supports the implementation of contractor emissions reduction programs. For example, fuel optimization programs can deliver a reduction in fuel consumption volumes over longer periods however may not be practical for short duration drilling campaigns unless the specific equipment is already installed. The cost of specialised equipment and software installation has been shown to far exceed the corresponding savings in fuel costs over the short term (&lt;18 months).</p> <p>In addition, required technical specifications and regional availability may not allow for the selection of MODUs and vessels possessing fuel optimization equipment, especially given the short duration of the drilling campaign.</p>
	<p>Voluntarily offset all GHG emissions associated with the petroleum activity.</p>	<p>No</p>	<p>As described in Section 3.5, the GHG emissions associated with the petroleum activity are indirect (scope 3) emissions for INPEX Australia.</p> <p>INPEX Australia has an offsets program in place to cover scope 1 and 2 emissions for the Ichthys Project as per the safeguard mechanism under the NGER Act. There is no safeguard mechanism baseline applicable to the activities covered by this EP as the activities relate to exploration and do not involve the recovery of hydrocarbons for production.</p>
<p>Identify the likelihood</p>			
<p>The likelihood of marine avifauna approaching and/or resting on exhaust vents on MODU/vessels during the activity and remaining in close enough proximity to be exposed to concentrations of air pollutants that result in symptoms such as irritation of eyes and respiratory tissues and breathing difficulties is considered Unlikely. Marine avifauna that may pass by near the MODU and vessels during the activity are unlikely to be in close enough proximity to be exposed to the emissions sources and are therefore unlikely to have any discernible symptoms. It is considered likely that they would move away from any emissions source if they began to experience discomfort or symptoms. No marine avifauna BIAs or critical habitats overlap WA-285-P or WA-343-P.</p>			

Given the presence of alternative resting/foraging habitat (Browse Island) and with the control measures described above in place, the potential for changes to air quality and associated impacts to marine avifauna are reduced. Therefore, the likelihood of the described consequences to marine avifauna occurring is considered Unlikely (4).

Residual risk summary

Based on a consequence of Insignificant (F) and a likelihood of Unlikely (4) the residual risk is Low (9).

Consequence	Likelihood	Residual risk
Insignificant (F)	Unlikely (4)	Low (9)

Assess residual risk acceptability

Legislative requirements

The activities and proposed management measures are compliant with industry standards, relevant international conventions and Australian legislation, specifically AMSA Marine Order 97: Marine Pollution Prevention – Air Pollution, the POTS Act, the Navigation Act 2012, and MARPOL, Annex VI. The above controls are aligned to the IFC EHS Guidelines – Offshore Oil and Gas Development (2015) with respect to flaring.

Emissions, energy consumption and energy production data will be reported annually to the Clean Energy Regulator by MODU/vessel contractors in **accordance with NGER requirements. The Paris Agreement provides the international framework and context around Australia’s NDC** (43% below 2005 levels by 2030) and the long-term aspirational goal of net zero emissions by 2050.

Relevant person consultation

During consultation undertaken in 2023 for the development of this EP, relevant matters/objections by two separate relevant persons were raised in relation to GHG emissions. Following consultation with CCWA (Appendix B.6) INPEX responded, and this EP includes the consideration and adoption of controls in relation to contractors emissions reduction and offsets. Feedback was also received to be clear and consistent on GHG metrics and the confirmation regarding scope 3 emissions, this has been described above and in Section 3.5). The ECNT confirmed during consultation that they do not support the exploration or development of new gas fields considering possible future emissions. They also confirmed their opinion **that INPEX’s decarbonization targets would be undermined by attempts to further develop gas fields.** INPEX responded to these objections (Appendix B.6) and have assessed that these objections have no specific merit in relation to this EP.

Conservation management plans / threat abatement plans



Several conservation management plans have been considered in the development of this EP (refer Appendix A.2). None of the recovery plans or conservation advice documents have specific threats relating to atmospheric emissions from MODUs and vessels operating offshore. However, many of the recovery plans or conservation advices identify climate change as an emerging threat to protected species with research priorities and actions identified to **obtain a greater understanding of the impacts of climate change. Other actions are predominantly focused on Australia’s international commitments regarding NDC, to reduce GHG emissions.**

ALARP summary

Although the level of environmental risk is assessed as Low, a detailed ALARP evaluation was undertaken to determine what additional control measures could be implemented to reduce the level of impacts and risks. No additional controls, beyond those identified during the detailed ALARP assessment can reasonably be implemented to further reduce the risk of impact.

Acceptability summary

Based on the above assessment, the proposed controls are expected to effectively reduce the risk of impacts to acceptable levels because:

- the activity demonstrates compliance with legislative requirements/industry standards
- the activity takes into account relevant person feedback
- the activity is managed in a manner that is consistent with the intent of conservation management documents
- the activity does not compromise the relevant principles of ESD
- the predicted level of impact does not exceed the defined acceptable level in that the environmental risk has been assessed as **“low”, the consequence does not exceed “C – significant” and the risk has been reduced to ALARP.**

Environmental performance outcomes	Environmental performance standards	Measurement criteria
Planned emissions and discharges from MODU and vessels undertaking the petroleum activity are in accordance with MARPOL requirements and industry good practice.	MODU and vessels pre-mobilisation audits undertaken by a registered organisation confirm that marine diesel engines on board MODUs and vessels >400 GT meet the requirements of Marine Order 97, (as applicable to the vessel, engine/propulsion size, type and class).	EIAPP certificate IAPP certificate Bunker delivery notes IMO type approval for waste incinerators where installed Training records for personnel responsible for operating waste incinerators IEE certificate SEEMP

	Fuel oil and marine diesel with 0.5% m/m sulfur content will be used.	INPEX fuel specification records confirm that fuel provided to the facility and vessels has 0.5% m/m sulfur content
	Where present equipment or systems on board MODUs or vessels >400 GT which contain ODS will be recorded and managed in accordance with MARPOL, Annex VI, Regulation 12 (as appropriate to vessel size, type and class).	ODS Record book
	MODU and vessel contractor has a preventative maintenance system to ensure diesel powered, power generation equipment is maintained and operated within OEM specification.	Preventative maintenance system records.
	INPEX and the MODU contractor will comply with IFC EHS guidelines relating to flaring, specifically: <ul style="list-style-type: none"> <li>• maintenance program to ensure maximum flare efficiency</li> <li>• use of a reliable pilot ignition system</li> <li>• minimum volume of hydrocarbons required for DST to be flared and durations reduced to the extent practical.</li> </ul>	DST testing records and pre-flow checklist.
	DST procedure (well test package) implemented including: <ul style="list-style-type: none"> <li>• Continuous (24/7) flare watch during flaring operations</li> <li>• Function testing of continuous ignition system and pilot system.</li> </ul>	Pre-flow checklist.
	INPEX and the MODU contractor will comply with the requirements of the OPGGS (Resource Management and Administration) Regulations 2011 (Cwlth) and the Offshore Petroleum and Greenhouse Gas Storage (Safety) Regulations 2009, including: <ul style="list-style-type: none"> <li>• NOPSEMA accepted WOMP</li> <li>• preparation and acceptance of the MODU Safety Case and Safety Case Revision.</li> </ul>	WOMP approval received from NOPSEMA.  MODU Safety Case acceptance received from NOPSEMA.

	<p>INPEX will verify that the MODU contractor complies with the requirements of the approved Well Control Bridging Document which aligns requirements (and clarifies if conflicts exist, which standard takes precedence) between the Contractor Well Control Manual, and INPEX policies and standards including INPEX Well Integrity Standard (0000-AD-STD-60003), Well Operations Standard (0000-AD-STD-60004) and Well Operations Manual (0000-AD-MAN-60002), which covers primary and secondary well control for drilling operations, including:</p> <ul style="list-style-type: none"> <li>• planned mud weight overbalance to stop ingress potential (i.e. inflow of formation fluids) into the well.</li> <li>• leak off or limit testing to confirm that the formation has sufficient strength for planned mud weight with adequate kick tolerance.</li> <li>• two independent well barriers in place at all times and tested in situ to ensure the system is capable of holding pressure in the well-bore or annulus.</li> </ul>	<p>Summary of compliance with primary and secondary well control in the Well Integrity Standard (0000-AD-STD-60003); Well Operations Standard (0000-AD-STD-60004) and Well Operations Manual (0000-AD-MAN-60002) reported in the daily drilling report.</p>
<p>Reduce <b>Australia's</b> contractor and supplier emissions across the supply chain.</p>	<p>INPEX and GHG</p> <p>INPEX Australia will work with contractors and suppliers to review opportunities that when implemented will reduce GHG emissions.</p> <p>INPEX will provided emissions data to MODU/vessel contractors to enable legislative reporting requirements under the NGER Act to be met for the petroleum activity.</p>	<p>INPEX contractor emissions reduction program.</p> <p>Data provided to MODU/vessel contractors to enable NGER reporting to the Clean Energy Regulator.</p>

7.1.3 Routine discharges to sea

Sewage, grey water and food waste

Table 7-3: Impact and evaluation – MODU and vessels sewage, grey water and food waste discharges

Identify hazards and threats	
<p>Discharging treated sewage effluent, grey water and food waste has the potential to expose planktonic communities to changes in water quality from the introduction of nutrients. Such a decline in water quality has the potential to result in reduced ecosystem productivity or diversity. These intermittent discharges will occur at the proposed well locations in WA-285-P and WA-343-P, which are both located in the open ocean and more than 12 nm from the nearest land.</p> <p>The average volume of sewage and greywater expected from the MODU and vessels (including domestic wastewater) generated by a person per day is approximately 230 L (based on calculations in Huhta et al 2009), therefore based on the maximum personnel on board (POB) of up to 180 on the MODU would equate to approximately 41 m<sup>3</sup> per day.</p>	
Potential consequence	Severity
<p>The particular values and sensitivities identified as having the potential to be impacted by sewage, grey water and food waste discharges are:</p> <ul style="list-style-type: none"> <li>planktonic communities.</li> </ul> <p>A study undertaken to assess the effects of nutrient enrichment from the discharge of sewage in the ocean found that the influence of nutrients in open marine areas is much less significant than that experienced in enclosed, poorly mixed water bodies. The study also found that zooplankton composition and distribution in areas associated with sewage dumping grounds were not affected (McIntyre &amp; Johnston 1975).</p> <p>When sewage effluent, grey water and food waste is discharged there is the potential for localised and temporary, changes in water quality within the permit areas. The potential consequence on planktonic communities is a localised impact on plankton abundance in the vicinity of the point of discharge. If concurrent drilling operations were to occur, sewage effluent, grey water and food waste discharge plumes associated with the MODU and support vessels would not overlap based on the distance between operating MODUs in the permit areas (tens of km). Therefore, no cumulative impacts to planktonic communities from such discharges are expected. Given the water depths (ranging from approximately 290 m in WA-285-P to approximately 350 m in WA-343-P), oceanic currents will result in the rapid dilution and dispersion of these discharges. Therefore, the consequence is considered to be of inconsequential ecological significance (Insignificant F).</p>	<p>Insignificant (F)</p>
Identify existing design and safeguards/controls measures	
<ul style="list-style-type: none"> <li>MODU and vessels will manage the discharge of sewage effluent and grey water in accordance with Marine Order 96 (as appropriate to class)</li> </ul>	

<ul style="list-style-type: none"> <li>• MODUs will be equipped with an approved sewage treatment plant (STP) compliant with Marine Order 96</li> <li>• MODUs and vessels will manage the discharge of garbage in accordance with Marine Order 95 (as appropriate to class)</li> <li>• MODUs and vessels will macerate food waste to a particle size of &lt;25 mm before disposal.</li> </ul>			
Propose additional safeguards/control measures (ALARP Evaluation)			
Hierarchy of control	Control measure	Used?	Justification
Elimination	Eliminate discharges from MODU and vessels by storage of sewage, grey water and food waste on board and ship to the mainland.	No	The significant financial cost and health risks associated with storing sewage, grey water and food waste on board MODU/vessels and transporting it to the mainland for the duration of operations is grossly disproportionate to the low level of risk associated with this discharge, permitted under legislation. Additional environmental impacts would also be generated in terms of air emissions and onshore disposal.  In the event that food waste is not macerated it will be transferred for onshore disposal. No unmacerated food waste will be disposed at sea.
Substitution	None identified	N/A	N/A
Engineering	STP installed and used on all vessels	No	While the MODUs have a STP, a requirement for all vessels to have STPs installed is not practicable and costs are considered to be grossly disproportionate for what is a permitted discharge under relevant legislation.
Procedures & administration	Preventative maintenance system	Yes	MODU/vessel contractors have a preventative maintenance system in place to ensure STP is maintained and operated within OEM specification.
Identify the likelihood			
Sewage and garbage discharges for the MODU and vessels will be in accordance with legislative requirements (MARPOL Annex IV & V, Marine Orders 95 and 96). Maceration of sewage and food waste to a particle size <25 mm prior to disposal will increase the ability of the discharges to disperse rapidly.			

The effects of sewage discharged to the ocean have been relatively well studied (Gray et al. 1992; Weis et al. 1989) and toxic effects generally only occur where high volumes are discharged into a small and poorly mixed waterbody. The volumes discharged within the permit areas are unlikely to cause toxic effects, especially considering the rapid dilution provided by the deep water and ocean currents.

Based on the expected high dispersion due to the open-ocean environment of the permit areas, localised impacts to plankton at the point of the planned discharge are considered to be Unlikely (4).

Residual risk summary

Based on a consequence of Insignificant (F) and a likelihood of Unlikely (4) the residual risk is Low (9).

Consequence	Likelihood	Residual risk
Insignificant (F)	Unlikely (4)	Low (9)

Assess residual risk acceptability

Legislative requirements

Sewage, grey water and food waste discharges are standard practice in the offshore environment and the disposal at sea is permitted under AMSA (2018) Marine Order – Part 96: Marine Pollution Prevention – Sewage, which gives effect to MARPOL, Annex IV and Marine Order – Part 95: Marine Pollution Prevention – Garbage, which gives effect to MARPOL, Annex V.

Relevant person consultation

No relevant person concerns have been raised regarding potential impacts and risks from planned discharges (sewage, grey water and food waste).

Conservation management plans / threat abatement plans

Several conservation management plans have been considered in the development of this EP (refer Appendix A.2). Emissions and discharges are listed as threatening processes; however, none of the recovery plans or conservation advice documents has specific actions relating to discharges of sewage, grey water and food waste. The macerators will assist in reducing impacts from the discharge stream, consistent with the intent of the conservation management documents.

ALARP summary

Although the level of environmental risk is assessed as Low, a detailed ALARP evaluation was undertaken to determine what additional control measures could be implemented to reduce the level of impacts and risks. No additional controls, beyond those identified during the detailed ALARP assessment can reasonably be implemented to further reduce the risk of impact.

Acceptability summary

Based on the above assessment, the proposed controls are expected to effectively reduce the risk of impacts to acceptable levels because:

- the activity demonstrates compliance with legislative requirements/industry standards
- the activity takes into account relevant person feedback
- the activity is managed in a manner that is consistent with the intent of conservation management documents
- the activity does not compromise the relevant principles of ESD
- the predicted level of impact does not exceed the defined acceptable level in that the environmental risk has been assessed as **“low”**, **the consequence does not exceed “C – significant”** and **the risk has been reduced to ALARP.**

Environmental performance outcomes	Environmental performance standards	Measurement criteria
Planned emissions and discharges from MODUs and vessels undertaking the petroleum activity are in accordance with MARPOL requirements and industry good practice.	Comply with Marine Order 96 including: <ul style="list-style-type: none"> <li>• Current ISPPC.</li> </ul>	ISPPC
	Comply with Marine Order 95 including: <ul style="list-style-type: none"> <li>• Garbage that has been ground or comminuted to particles &lt;25 mm discharged &gt;3 nm from the nearest land.</li> <li>• Garbage disposal record book maintained.</li> </ul>	Garbage disposal record book
	MODU contractor has a preventative maintenance system to ensure STP is maintained.	Preventative maintenance system records

## Deck drainage, bilge, PW and firefighting foam

Table 7-4: Impact and evaluation – MODU and vessels deck drainage, bilge, PW and firefighting foam discharges

Identify hazards and threats	
<p>Contaminated deck drainage and bilge discharges or failure to treat oily water to suitable OIW concentrations before discharge, have the potential to expose marine fauna to changes in water quality and/or result in impacts through direct toxicity. Deck drainage discharge volumes on the MODU and vessels will be intermittent and are dependent on weather conditions and frequency of deck washing. Volumes of bilge water from engines and other mechanical sources found throughout the machinery spaces will also vary between vessels.</p> <p>In general, the capacities of oil-water separators (OWS) on vessels range from 100–1000 litres per hour. Therefore, conservatively based on maximum rates, each vessel present in the permit areas could potentially discharge 1 m<sup>3</sup> per hour.</p> <p>During DST operations, reservoir fluids (hydrocarbons and PW) are sent to the flare resulting in atmospheric emissions. In the event PW cannot be sent to the flare due to poor burn and potential drop out, it is separated and treated prior to overboard discharge.</p> <p>The MODU and vessels are equipped with firefighting foam that is a safety critical requirement. The foam systems supply 3% alcohol resistant aqueous film-forming foam (AR-AFFF) and 3% film forming fluoroprotein foam (FFFP) concentrates which will be used in the event of an incident. Foam released on to the helideck will be routed to the open-drains system for discharge to sea.</p>	
Potential consequence	Severity
<p>The particular values and sensitivities with the potential to be impacted by deck drainage, bilge, PW and fire foam discharges are:</p> <ul style="list-style-type: none"> <li>• EPBC-listed species</li> <li>• planktonic communities</li> <li>• fish (demersal fish community KEF and commercial species).</li> </ul> <p>Discharges of oily water will be treated to &lt;15 ppm (v) in accordance with MARPOL requirements. This could introduce hazardous substances (mixture of water, oily fluids, lubricants, cleaning fluids (rig wash), etc.) into the water column, albeit in low concentrations. Temporary PW discharge during DST operations may be required due to the poor burn quality observed during flaring. PW will be treated using a PW filtration system to an OIW concentration of &lt;30 ppm prior to discharge to the marine environment. These discharges could result in a reduction in water quality, and impacts to EPBC-listed species, plankton and other pelagic organisms such as fish species (demersal fish community KEF or those species targeted by commercial fisheries).</p>	Insignificant (F)



There are no known BIAs or aggregation areas that would result in sedentary behaviour in WA-285-P and WA-343-P. The outer extent of the green turtle internesting buffer at Browse Island overlaps the far north eastern boundary of WA-285-P (Figure 4-6); however, the activity location, and hence location of the discharge, is in the south-west of the permit area (Figure 1-1) approximately 40 km from Browse Island at its closest point. Additionally, a whale shark foraging BIA is located approximately 5 km from WA-285-P and approximately 10 km from WA-343-P at its closest point (Figure 4-7). However, based on the levels of whale shark abundance observed in numerous studies (as described in Section 4.9.4), the likelihood of whale shark presence within this BIA is considered very low, with no specific seasonal pattern of migration. Given the highly mobile and transient nature of marine fauna the potential exposure is likely to be limited to individuals close to the discharge point at the time of the discharge.

Worst case impacts to exposed marine fauna may include direct toxic effects, such as damage to lungs and airways, and eye and skin lesions from exposure to oil at the sea surface (Gubbay & Earll 2000). Considering the low concentrations of oil and the location of the discharges in the dispersive open ocean environment, a surface expression is not anticipated; therefore, impacts are considered to be of inconsequential ecological significance to EPBC-listed species and are therefore considered Insignificant (F).

Planktonic communities in close proximity to the discharge point may be affected if exposed to oily water. Such exposure may result in lethal effects to plankton. The potential consequence on planktonic communities is a localised impact on plankton abundance in the vicinity of the point of discharge with inconsequential ecological significance (Insignificant F).

There is the potential for individual fishes to be exposed to the discharge; however, this would be limited to those fish present at the sea surface rather than those associated with the demersal fish community KEF. Such exposure is not expected to result in any significant impacts to fishes based on the low toxicity, low volume and high dilution levels; in addition, the highly mobile nature and ability of fishes to move away from the intermittent discharge. The potential consequence on the demersal fish community KEF or commercially targeted fish species will be short-term and highly localised with inconsequential ecological significance (Insignificant F).

<p>Firefighting foams generally contain organic and fluorinated surfactants, which can deplete dissolved oxygen in water (Schaefer 2013; IFSEC Global 2014). However, in their diluted form (as applied in the event of a fire), these foams are generally considered to have a relatively low toxicity to aquatic species (Schaefer 2013; IFSEC Global 2014) and further dilution of the foam mixtures in dispersive aquatic environments may then occur before there is any substantial demand for dissolved oxygen (Schaefer 2013; IFSEC Global 2014). To date, limited research regarding the potential impacts of firefighting foam to the marine environment has been undertaken with respect to bioaccumulation and persistence (Suhring et al 2017). Toxicological effects from these types of foams are typically only associated with prolonged or frequent exposures, such as on land and in watercourses near firefighting training areas (McDonald et al. 1996; Moody and Field 2000). As toxicological effects from foams are associated with frequent or prolonged exposures, and any discharges during the activity will be as a result of an incident and therefore infrequent and expected to rapidly disperse. Subsequently, it is not expected that any impacts will occur to EPBC-listed species or fish. It is also expected that effects on planktonic communities, if any, would be localised and of a short-term nature (Insignificant F). Additionally, the potential consequences are also considered to be countered by the net environmental benefit that would be achieved through mitigating the potential for a fire resulting in harm to people and the environment.</p> <p>If concurrent drilling operations were to occur, deck drainage, bilge, PW and firefighting foam discharges associated with the MODU and support vessels are not expected to overlap based on the distance between operating MODUs in the permit areas (tens of km). Therefore, no cumulative impacts to EPBC listed species, planktonic or fish communities from such discharges are expected.</p>			
Identify existing design and safeguards/controls measures			
<ul style="list-style-type: none"> <li>• MODUs and vessels are equipped with OWS which remove traces of oil from the bilge and drainage water prior to discharge to sea.</li> <li>• MODUs and vessels will have equipment to ensure OIW discharges meet &lt;15 ppm in accordance with Marine Order 91. Bilge water and waste that does not meet the discharge requirements will be retained onboard for controlled disposal at a port reception facility.</li> <li>• Spill kits will be available on-board MODUs and vessels.</li> <li>• Vessel crew will receive an induction/training to inform them of deck spill response requirements in accordance with Table 9-3.</li> <li>• INPEX chemical, assessment and approval procedure for selection of rig wash and firefighting foam in accordance with Section 9.6.1 and Table 9-5.</li> <li>• Well test packages used during DST operations will include equipment to separate PW from the reservoir fluid and treat to &lt;30 ppm prior to discharge.</li> </ul>			
Propose additional safeguards/control measures (ALARP Evaluation)			
Hierarchy of control	Control measure	Used?	Justification

Elimination	No discharges of contaminated deck drainage or bilge to sea.	No	Discharge of deck drainage, stormwater runoff, or bilge discharges cannot be eliminated from the MODU or vessels. There is not sufficient space on board for storage, and onshore disposal is not practicable given the distance to the mainland (18-hour transit time to the closest port facility). Further, the associated emissions and discharges associated with such frequent transfers would have a negative impact.
	No discharge of PW to sea	No	Reservoir fluids (hydrocarbons and PW) are sent to the flare; however, for wells with poor quality burn this may result in hydrocarbon drop out. To mitigate this risk, PW will be separated and treated for overboard discharge.
	Storage and backload of PW to avoid discharge to sea	No	MODU safety case requirements and personnel safety considerations do not permit for PW to be returned to the MODU mud pits for temporary storage.
	No discharge of firefighting foams to sea.	No	Firefighting foams are safety critical and are required in the event of a fire to prevent potential loss of human life or the occurrence of a significant environmental incident. It is not possible to retain and dispose of foam during an incident by any other practicable means. Infrequent controlled discharges of small quantities of firefighting foams cannot be completely eliminated as regulatory assurance activities necessary to determine that Safety Critical Systems onboard meet their performance standards for fire protection must be carried out.
Substitution	None identified	N/A	N/A
Engineering	Treatment of PW to <15 ppm OIW	No	Industry standard for PW discharge is currently <30 ppm OIW. Treatment via any MODU OIW separator equipment is not permitted under the MODU safety case. Available deck space for additional filtration equipment is limited.

	Discharge separation and containment system for firefighting foams.	No	Given the limited (insignificant) consequence of potential impacts that may arise from such a discharge and the low potential for occurrence, implementing separate drainage systems on MODUs and vessels for firefighting foams is not considered practicable. Implementation of additional engineering measures and procedures to reroute firefighting foams is not practicable in a situation when firefighting systems must be activated as soon as possible to contain a fire and the decks adequately drained to ensure the safety of personnel and integrity of MODUs and vessels.
Procedures & administration	MODU/vessel contractors will implement specific procedures to reduce the potential for deck spills reaching the sea.	Yes	To reduce potential for deck spills entering the marine environment contractors will ensure deck drainage systems are in place and maintained. This includes implementation of maintenance procedures and the use of plugs/scuppers etc.
Identify the likelihood			
<p>Deck drainage and bilge discharges are treated to a maximum concentration of 15 ppm (v) OIW prior to discharge as specified in MARPOL, Annex 1; Marine Order 91: Marine Pollution Prevention - Oil. PW is treated by a PW filtration system to a concentration of &lt;30 ppm OIW prior to discharge. Impacts to the abundance of plankton in the vicinity of the discharge (oily water and firefighting foam) are not expected and are considered Unlikely (4) and will be ecologically insignificant based on the naturally high spatial and temporal variability of plankton distribution in Australian tropical waters.</p> <p>Given the mobile nature of EPBC-listed species potentially in the permit areas, the likelihood of impacts from the discharge after treatment and subsequent dilution and dispersion is considered Unlikely (4) and is not expected to result in a threat to population viability of protected species.</p>			
Residual risk summary			
Based on a consequence of Insignificant (F) and a worst-case likelihood of Unlikely (4) the residual risk is Low (9).			
Consequence		Likelihood	Residual risk
Insignificant (F)		Unlikely (4)	Low (9)
Assess residual risk acceptability			
Legislative requirements			

MODU and vessel OWS meet relevant international regulatory requirements, including MARPOL; Marine Order 91: Marine Pollution Prevention - Oil. For MODU and vessel bilge the discharge of oil in water of <15 ppm (v) is permitted under MARPOL. Discharge of treated PW (<30 ppm) is standard industry practice. Although the previous regulations regarding OIW concentrations have been withdrawn. This limit aligns with other countries, including the USA and those covered by OSPAR (North-East Atlantic). There are no other relevant Australian environmental legislative requirements that relate specifically to the discharge of PW.

Relevant person consultation

No relevant person concerns have been raised regarding potential impacts and risks from deck drainage, bilge, or PW discharges. During consultation in 2023, the CCWA raised concerns over the use of firefighting foam (Appendix B.6). As described in the ALARP justification above, firefighting foams are safety critical and these discharges cannot be eliminated.

Conservation management plans / threat abatement plans

Several conservation management plans have been considered in the development of this EP (refer Appendix A.2). Emissions and discharges are listed as threatening processes; however, none of the recovery plans or conservation advice documents has specific actions relating to deck drainage/bilge/PW/firefighting foam discharges. Managing OIW discharges in accordance with legislative requirements is consistent with the intent of the conservation management documents.

ALARP summary

Although the level of environmental risk is assessed as Low, a detailed ALARP evaluation was undertaken to determine what additional control measures could be implemented to reduce the level of impacts and risks. No additional controls, beyond those identified during the detailed ALARP assessment can reasonably be implemented to further reduce the risk of impact.

Acceptability summary

Based on the above assessment, the proposed controls are expected to effectively reduce the risk of impacts to acceptable levels because:

- the activity demonstrates compliance with legislative requirements/industry standards
- the activity takes into account relevant person feedback
- the activity is managed in a manner that is consistent with the intent of conservation management documents
- the activity does not compromise the relevant principles of ESD
- the predicted level of impact does not exceed the defined acceptable level in that the environmental risk has been assessed as **“low”**, the consequence does not exceed **“C – significant”** and the risk has been reduced to **ALARP**.

Environmental outcomes	performance	Environmental performance standards	Measurement criteria
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<p>Planned emissions and discharges from MODUs and vessels undertaking the petroleum activity are in accordance with MARPOL requirements and industry good practice.</p>	<p>MODU and vessel contractors will comply with the <i>Navigation Act 2012</i> – Marine Order 91 including:</p> <ul style="list-style-type: none"> <li>• MODUs and vessels (of appropriate class) to have IOPP certificate to show they have passed structural, equipment, systems, fittings, and arrangement and material conditions.</li> <li>• OWS tested and approved as per IMO resolutions MARPOL (Annex I).</li> </ul>	<p>Record of current IOPP certificate.</p> <p>Calibration and maintenance records of the OWS.</p>
	<p>MODU and vessel liquids from drains will only be discharged if the oil in water content does not exceed 15 ppm.</p>	<p>Documented use of oil record book to record all oil disposal.</p>
	<p>MODU/vessel contractors will manage deck drainage systems including:</p> <ul style="list-style-type: none"> <li>• facility for plugging or closing of outboard drains.</li> <li>• inboard drains routed to oil water separator units, as required.</li> <li>• maintain MODU drainage systems to restrict leakages and small spills overboard.</li> </ul>	<p>Deck drainage plans confirm inboard/outboard drainage</p> <p>Documentation of operational status of MODU deck drainage systems</p>
	<p>Spill kits will be located on MODUs and vessels to allow clean-up of any spills to the deck.</p>	<p>Inspection records confirm spill kits are available and stocked.</p>
<p>Zero discharges of untreated PW to the marine environment.</p>	<p>PW discharged to the marine environment will achieve an oil in water concentration of &lt;30 ppm.</p>	<p>Records demonstrate that PW has met discharge specification.</p>

Cooling water

Table 7-5: Impact and evaluation – MODU and vessels cooling water discharges

Identify hazards and threats	
<p>Sea water is used as a heat exchange medium for the cooling of machinery engines on the MODU and vessels. It is pumped aboard and may be treated with biocide (e.g. hypochlorite) before circulation through heat exchangers. It is subsequently discharged from the MODU/vessels to the sea surface. Cooling water (CW) discharges to the marine environment will result in a localised and temporary increase in the ambient water temperature surrounding the discharge point. Elevated discharge temperatures may cause a variety of effects, including marine fauna behavioural changes and reduced ecosystem productivity or diversity through impacts to planktonic communities.</p> <p>CW discharge rates vary largely depending on the vessel type. However, as a worst-case, the rate of CW discharge from the MODU during drilling is estimated to be approximately 10,000 – 20,000 m<sup>3</sup> per day on a continuous basis. The temperature of the CW discharge will be approximately 40 °C, in contrast to ambient surface-water temperatures of 26 °C to 30 °C as recorded in the Ichthys Field (Section 4.8.4).</p>	
Potential consequence	Severity
<p>The particular values and sensitivities with the potential to be impacted by cooling water discharges are:</p> <ul style="list-style-type: none"> <li>• EPBC-listed species</li> <li>• planktonic communities.</li> </ul> <p>Effects of elevation in seawater temperature may include a range of behavioural responses in EPBC-listed species including attraction and avoidance behaviour. There are no known BIAs or aggregation areas that would result in sedentary behaviour in WA-285-P and WA-343-P. The outer extent of the green turtle internesting buffer at Browse Island overlaps the far north eastern boundary of WA-285-P (Figure 4-6); however, the activity location, and hence location of the discharge, is in the south-west of the permit area (Figure 1-1) approximately 40 km from Browse Island at its closest point. Additionally, a whale shark foraging BIA is located approximately 5 km from WA-285-P and approximately 10 km from WA-343-P at its closest point (Figure 4-7). However, based on the levels of whale shark abundance observed in numerous studies (as described in Section 4.9.4), the likelihood of whale shark presence within this BIA is considered very low, with no specific seasonal pattern of migration. Given the highly mobile and transient nature of marine fauna the potential exposure is likely to be limited to individuals close to the discharge point at the time of the discharge. The activity will occur in water depths of approximately 290 to 350 m in a dispersive, open ocean environment. Therefore, potential consequences to EPBC-listed species are potentially localised avoidance of thermally elevated water temperatures, with an inconsequential ecological significance to protected species (Insignificant F).</p>	<p>Insignificant (F)</p>

<p>Elevated seawater temperatures are known to cause alterations to the physiological (especially enzyme-mediated) processes of exposed biota (Wolanski 1994). These alterations may cause a variety of effects and potentially even mortality of plankton in cases of prolonged exposure. In view of the high level of natural mortality and the rapid replacement rate of many plankton species, UNEP (1985) indicates that there is no evidence to suggest that lethal effects to plankton from thermal discharges are ecologically significant. The potential consequence on planktonic communities is a localised impact on plankton abundance in the vicinity of the point of discharge with inconsequential ecological significance (Insignificant F).</p> <p>The use of biocide (hypochlorite) for the control of biofouling is considered an established and efficient technology for use in offshore environments and is used throughout the world (Khalanski 2002). The effects of chlorination on the marine environment have been summarised by Taylor (2006) who, based on a review of applications using hypochlorite as an antifoulant for the seawater cooling circuits, concluded that:</p> <ul style="list-style-type: none"> <li>• the chlorination procedure itself does cause the mortality of a proportion of planktonic organisms and the smaller organisms entrained through a cooling water system; however, only in very rare instances, where dilution and dispersion were constrained, were there any impacts beyond the point of discharge</li> <li>• long term exposure to chlorination residues on fish species did not impose any apparent ecotoxicological stress</li> <li>• studies of the impact of chlorination by-products on marine communities, population, physiological, metabolic and genetic levels, indicate that the practice of low-level chlorination on coastal receiving water is minor in ecotoxicological terms.</li> </ul> <p>These findings indicate that the toxicity of the CW discharge is negligible at the point of discharge, therefore impacts are limited to thermal effects.</p> <p>If concurrent drilling operations were to occur, cooling water discharge plumes associated with the MODUs and support vessels are not expected to overlap based on the distance between operating MODUs in the permit areas (tens of km). Therefore, no cumulative impacts to EPBC listed species or planktonic communities from such discharges are expected.</p>			
Identify existing design and safeguards/controls measures			
None identified			
Propose additional safeguards/control measures (ALARP Evaluation)			
Hierarchy of control	Control measure	Used?	Justification



Elimination	No discharges of CW to sea	No	Engines and machinery require cooling to operate safely and efficiently, therefore CW cannot be eliminated. Storage and containment of CW to allow cooling on board the MODU and vessels prior to discharge is not considered practicable given the size/space requirements (i.e. large surface areas are required to sufficiently cool the water). Onshore disposal was also not considered practicable given the distance to the mainland, frequency of trips required, and the associated emissions and discharges generated by such transfers.
Substitution	Substitute hypochlorite with an alternative biofouling control/mechanism.	No	Hypochlorite is an established and efficient technology for use in offshore environments and is a recommended technique in the application of best available techniques (BAT) to industrial cooling systems (European Commission 2001). The retrofitting of alternative biofouling control mechanisms to all vessels is not considered to be practicable given the low environmental impact from vessel cooling water discharges.
Engineering	None identified	N/A	N/A
Procedures & administration	None identified	N/A	N/A
<b>Identify the likelihood</b>			
<p>CW discharges are expected to rapidly disperse in the open-ocean environment of WA-285-P and WA-343-P. MODU and vessel CW discharges may result in temporary, localised and ecologically insignificant avoidance behaviour in EPBC-listed species in response to elevated water temperatures. However, any avoidance or behavioural changes are not expected to result in a threat to the population viability of protected species and is considered to be Unlikely (4).</p> <p>Localised impacts to the abundance of plankton within the vicinity of the CW discharges are considered to be Unlikely (4) based on the naturally high spatial and temporal variability of plankton distribution in Australian tropical waters.</p>			
<b>Residual risk summary</b>			
Based on a consequence of Insignificant (F) and a likelihood of Unlikely (4) the residual risk is Low (9).			
Consequence	Likelihood	Residual risk	
Insignificant (F)	Unlikely (4)	Low (9)	
<b>Assess residual risk acceptability</b>			

Legislative requirements

The discharge of return seawater from cooling water systems to the marine environment is considered to be standard practice in industry and there are no relevant Australian environmental legislative requirements that relate specifically to the discharge specifications of cooling water. IFC EHS Guidelines – Offshore Oil and Gas Development (2015) state that cooling water discharges should be no more than 3 °C above the ambient seawater temperature at 100 m from the discharge point. CW discharge modelling for the Ichthys offshore facility located in the nearby WA-50-L, predicted a maximum 1.6 °C at 100 m from discharge point (this is based on higher discharge temperatures and greater discharge rates than would apply to a MODU/vessels undertaking this activity).

Relevant person consultation

No relevant person concerns have been raised regarding potential impacts and risks from CW discharges.

Conservation management plans / threat abatement plans

Several conservation management plans have been considered in the development of this EP (refer Appendix A.2), none of the recovery plans or conservation advice documents have specific threats or actions relating to discharges of cooling water in remote offshore waters.

ALARP summary

Although the level of environmental risk is assessed as Low, a detailed ALARP evaluation was undertaken to determine what additional control measures could be implemented to reduce the level of impacts and risks. No additional controls have been identified that can reasonably be implemented to further reduce the risk of impact.

Acceptability summary

Based on the above assessment, the risk of impacts is managed to acceptable levels because:

- the activity demonstrates compliance with legislative requirements/industry standards
- the activity takes into account relevant person feedback
- the activity is managed in a manner that is consistent with the intent of conservation management documents
- the activity does not compromise the relevant principles of ESD
- the predicted level of impact does not exceed the defined acceptable level in that the environmental risk has been assessed **as “low”, the consequence does not exceed “C – significant” and the risk has been reduced to ALARP.**

Environmental performance outcomes	Environmental performance standards	Measurement criteria
N/A no controls identified		

Desalination brine

Table 7-6: Impact and evaluation – MODU and vessels desalination brine discharges

Identify hazards and threats			
<p>Potable water will be generated on the MODU and vessels using a reverse osmosis (RO) plant which is supplied with sea water. Potable water is primarily supplied to the accommodation and domestic services areas. It is also supplied for other purposes such as the eyewash and safety shower systems and utilities water systems. Desalination brine produced from the RO process will be discharged to sea on a continuous basis.</p> <p>Discharging desalination brine has the potential to cause changes in water salinity. The estimated volume of brine discharge for the vessels and MODU is estimated to be in the order of 60 - 140 m<sup>3</sup> per day with salinity in the order of 45 to 50 parts per thousand (ppt) in comparison to ambient seawater with a salinity of 34 to 35 ppt (Section 4.8.4).</p>			
Potential consequence			Severity
<p>The particular values and sensitivities with the potential to be impacted by desalination brine discharges are:</p> <ul style="list-style-type: none"> <li>planktonic communities.</li> </ul> <p>The discharge of desalination brine from the MODUs and vessels has the potential to result in increased salinity within the receiving environment. Exposure to increased levels of salinity has the potential to result in impacts to planktonic communities. Azis et al. (2003) reported that effects on planktonic communities in areas of high mixing and dispersion, such as those found in the permit areas, are generally limited to the point of discharge only.</p> <p>Given the water depths in WA-285-P (approximately 290 m) and WA-343-P (approximately 350 m) and the dynamic open ocean environment (i.e. tides and currents) it is expected that the brine discharge would rapidly disperse relatively close to the point of discharge. Therefore, the effects of a temporary and highly localised increase in salinity are not expected to result in any significant ecological impacts to planktonic communities (Insignificant F).</p> <p>If concurrent drilling operations were to occur, desalination brine discharge plumes associated with the MODUs and support vessels are not expected to overlap based on the distance between operating MODUs in the permit areas (tens of km). Therefore, no cumulative impacts to planktonic communities from such discharges are expected.</p>			Insignificant (F)
Identify existing design and safeguards/controls measures			
None identified			
Propose additional safeguards/control measures (ALARP Evaluation)			
Hierarchy of control	Control measure	Used?	Justification

Elimination	Eliminate brine discharges from MODU and vessels	No	The significant financial cost and health risks associated with providing fresh water to support vessels from the mainland via vessel transfer or transiting directly to port for resupply is grossly disproportionate to the low level of risk associated with this discharge. Steaming time to the closest port facilities for resupply is approximately 18 - 24 hours. This would also generate additional environmental impacts in terms of air emissions and increased demands to the onshore supply.
Substitution	None identified	N/A	N/A
Engineering	Use of a diffuser on vessels/MODU to increase mixing in the receiving environment.	No	Given the water depth and oceanic currents in the permit areas and the small volumes of discharges, retrospective installation of a diffuser on the MODU and all vessels is not considered practicable, given the insignificant consequence from brine discharges.
Procedures & administration	None identified	N/A	N/A
Identify the likelihood			
Direct effects on plankton from desalination brine discharges may occur in the permit areas near the point of discharge but are not expected to result in an ecological impact to planktonic communities in the wider region. Therefore, the likelihood of impact to planktonic communities from these planned discharges is considered Highly Unlikely (5).			
Residual risk summary			
Based on a consequence of Insignificant (F) and a likelihood of Highly Unlikely (5) the residual risk is Low (10).			
Consequence	Likelihood	Residual risk	
Insignificant (F)	Highly Unlikely (5)	Low (10)	
Assess residual risk acceptability			
Legislative requirements			

The discharge of desalination brine to the marine environment is considered to be standard practice in industry and there are no relevant Australian environmental legislative requirements that relate specifically to the discharge of desalination brine.

Relevant person consultation

No relevant person concerns have been raised regarding potential impacts and risks from desalination brine discharges.

Conservation management plans / threat abatement plans

Several conservation management plans have been considered in the development of this EP (refer Appendix A.2), none of the recovery plans or conservation advice documents have specific threats or actions relating to discharges of desalination brine in remote offshore waters.

ALARP summary

Although the level of environmental risk is assessed as Low, a detailed ALARP evaluation was undertaken to determine what additional control measures could be implemented to reduce the level of impacts and risks. No additional controls have been identified that can reasonably be implemented to further reduce the risk of impact.

Acceptability summary

Based on the above assessment, the risk of impacts is managed to acceptable levels because:

- the activity demonstrates compliance with legislative requirements/industry standards
- the activity takes into account relevant person feedback
- the activity is managed in a manner that is consistent with the intent of conservation management documents
- the activity does not compromise the relevant principles of ESD
- the predicted level of impact does not exceed the defined acceptable level **in that the environmental risk has been assessed as "low", the consequence does not exceed "C – significant" and the risk has been reduced to ALARP.**

Environmental performance outcomes	Environmental performance standards	Measurement criteria
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N/A no controls identified

Drill fluids and drill cuttings

Table 7-7: Impact and evaluation – discharges of drill fluids and drill cuttings

Identify hazards and threats	
<p>During drilling operations, drill cuttings consisting of crushed rock fragments are generated. Along with the cuttings, drill fluids (used to lubricate/cool the drill bit, stabilise the borehole and control pressure) are brought to the surface. The main constituents of drill fluids are either WBM or SBM, and a weighting material (typically barite) (Section 3.3.1). Barium sulphate (barite) is considered to be relatively inert in the marine environment, and unlikely to be toxic (Neff 2002). The acute toxicity of WBM is also considered to be low (Neff 1987). Various additives may also be added to improve the technical performance of the drill fluids such as viscosifiers, emulsifiers and pH control agents. The chemicals used as additives in the drill fluids are mostly classified as PLONOR (Pose Little or No Risk to the Environment) by the OSPAR Commission (2012) or have an OCNS rating of D or E or HQ rating of silver or gold.</p> <p>Routine discharges of drill fluids and drill cuttings will occur during the exploration drilling activity. Sources of discharge are listed below, and quantities discharged are shown in Table 3-1:</p> <ul style="list-style-type: none"> <li>• WBM drill cuttings and drill fluids discharge at the seabed during riserless well sections</li> <li>• WBM drill cuttings discharge at the sea surface (overboard from the MODU) including bulk discharges of WBM fluid and cuttings at the end of drilling/pit washing and cleaning</li> <li>• <b>SBM drilling cuttings with ≤7% oil-on-cuttings (OoC) discharged at the sea surface.</b></li> </ul> <p>Discharged drill fluids and drill cuttings may impact benthic communities, water quality and associated pelagic receptors within the discharge plume (Bakke et al. 2013).</p>	
Potential consequence	Severity
<p>The particular values and sensitivities with the potential to be impacted by drilling discharges (drill fluids/cuttings) are:</p> <ul style="list-style-type: none"> <li>• benthic communities (ancient coastline KEF)</li> <li>• fish (demersal fish community KEF and commercial species).</li> </ul> <p>The main impact pathways from the discharge of drill fluids and drill cuttings are associated with smothering of benthic communities and an increase in turbidity within the water column potentially impacting on water quality. Cuttings in suspension may also affect pelagic organisms, sponges, corals and other sessile fauna within the discharge plume (Bakke et al. 2013).</p> <p><i>Smothering</i></p>	<p>Minor (E)</p>

Smothering of benthic fauna may occur in locations where the rate of cuttings deposition exceeds the rate at which in situ fauna are able to move up through the sediments. There is generally no agreed threshold point for tolerance to sedimentation as it depends on the species and the structure of the accumulating material. Smit et al. (2008) conducted an extensive literature review of species sensitivity distributions for sediment burial in the marine environment. They reported that the 50% hazardous level for burial of deep-water epibenthic fauna, such as found in WA-285-P and WA-343-P, was 54 mm.

The discharge of drill fluids and cuttings may result in the smothering of benthic communities in the immediate vicinity of the wells in the permit areas. This may result in burial and low sediment oxygen concentrations caused by increased oxygen consumption and organic enrichment (Neff 2008). Monitoring in the North Sea has not revealed any in situ effects of WBM cuttings on sediment macrofauna community structure, implying that any such effects, if present, will be confined to within 25–250 m from the discharge point (Bakke et al. 2013 and references within). Effects on filter feeding bivalves were reported to be limited to within a distance of 0.5 to 1 km from the discharge (Bakke et al. 2013). Further studies also indicate impacts from drilling (fluids/cuttings) discharges are localised to within 1 km of the wells (Ellis et al. 2012; Purser 2015). If concurrent drilling operations were to occur, drill fluids and cuttings discharge plumes associated with the MODUs are not expected to overlap based on the distance between the MODUs operating in the permit areas or the continued Ichthys drilling operations in the nearby in WA-50-L. Therefore, no cumulative impacts to benthic communities from such discharges are expected.

Parts of the ancient coastline KEF, particularly where it exists as a rocky escarpment, are thought to provide biologically important habitats in areas otherwise dominated by soft sediments (DSEWPaC 2012a). It is considered that the hard substrate of the escarpment is likely to support a range of sponges, corals, crinoids, molluscs, echinoderms and other benthic invertebrates (DSEWPaC 2012a). The ancient coastline KEF is located, approximately 10 km south of WA-285-P and approximately 50 km south of WA-343-P at its closest point. Therefore, benthic communities associated with the KEF are not expected to be impacted by drilling discharges as any silt plumes generated would have dissipated over this distance in the presence of near-seabed currents and it is not expected that sedimentation/smothering impacts would occur to benthic communities.

While complete smothering of corals in sediment or drill cuttings will cause suffocation, conditions typically generated during the discharge of drill cuttings are unlikely to cause coral death, although this will be dependent on coral morphology (branching) and the capacity to shed sediment through the release of mucus (Allers et al. 2013). The nearest submerged coral communities to WA-285-P are located at Echuca and Heywood Shoals, located approximately 80 km and 95 km respectively. For WA-343-P these coral communities are located approximately 75 km and 60 km respectively. As such these are not expected to be impacted by smothering effects due to the drilling discharges.

The closest coral reef to WA-285-P is located at Browse Island (19 km); however, this includes an intertidal reef platform and fringing reef and is therefore not expected to be contacted by drilling fluids/cuttings discharges given the distance from the permit area. This is also the case for WA-343-P which is located approximately 68 km north of Browse Island. As described in Section 4.8.3, seabed conditions in the nearby Ichthys Field are suggestive of strong near-seabed currents and mobile sediments that do not favour the development of diverse epibenthic communities. The presence of sand waves are also expected to limit the development of infaunal communities in this habitat due to substrate instability associated with changes in the currents. Any potential impacts to benthic communities from drilling discharges are expected to be at a local scale and short-term, therefore the consequence is considered to be Minor (E); particularly given the expected re-colonisation through the recruitment of new colonists from planktonic larvae and adjacent sediments.

As part of the Ichthys Project Environmental Impact Statement (2010), INPEX made a commitment to investigate potential impacts of drill cuttings discharges on benthic communities in the offshore project area through environmental monitoring. A baseline 'before' study, conducted in June 2018 indicated the seabed in WA-50-L, situated between WA-285-P and WA-343-P, comprised of flat and unconsolidated sand/mud substrate with sparse biota (BMT 2019a). These results are similar to other studies in the Northwest Shelf and Timor Sea (BMT 2019b). **Follow up 'after'** ROV video surveys were undertaken in October 2018 and in July 2019, following the drilling of a well. The benthic substrate surrounding the well was classified as unconsolidated sand/mud (<2 mm) in both the before and after drilling surveys (BMT 2019b). Distribution of drill cuttings was wider during the after survey, which was to be expected post-drilling, with cuttings observed up to 100 m from the well centre (BMT 2019 b, c). Therefore, within WA-285-P and WA-343-P it is possible that drill cuttings could extend up to 100 m from the well locations. Biota were sparsely distributed during the surveys (before and after) but differences in abundance may have been due to natural factors such as temporal variability or the natural movement pattern of biota in the area (BMT 2019b). Sediment sampling undertaken in 2019 indicated that post drilling the concentration of metals and hydrocarbons had increased and therefore this may also have had an influence on the abundance of biota (BMT 2019c).



*Turbidity and water quality*

Disposal of drill fluids and cuttings discharge overboard at the sea surface may affect other parts of the marine ecosystem such as pelagic organisms and other submerged receptors that may be present within the discharge plume. Discharged drill cuttings and fluids will create a temporary and localised turbid plume, which will gradually dilute as it disperses through the water column as a result of the action of currents. Field observations from drilling campaigns on the NWS have found that plumes associated with drilling discharges at the seabed and sea surface were visible in the upper water column for up to approximately 1 km from the discharge location and for a short time (approximately 24 hours) after discharge (INPEX 2010). Exposure to increased turbidity and potential toxicity is expected to be short term, and intermittent depending on plume behaviour (Bakke et al. 2013).

The seabed in both WA-285-P and WA-343-P is below the photic zone (water depths approximately 290 m and 350 m respectively) and benthic communities are expected to be largely unaffected from the presence of a discharge plume (reducing light exposure levels), due to the high dispersion and mixing of the drilling cuttings and fluids within the water column.

Pelagic species including the demersal fish community KEF which overlaps WA-285-P and WA-343-P, fish species targeted by commercial fisheries, and EPBC-listed species transiting the area, are unlikely to be significantly impacted as they are likely to exhibit avoidance behaviour. There is the potential for individual fishes to be exposed to the discharge; however, this would be limited to those fish present at the sea surface rather than those associated with the demersal fish community KEF. Commercially targeted southern bluefin tuna have spawning grounds that overlap the permit areas, therefore eggs, larvae and juveniles could be exposed to drilling discharges. Reported to spawn in surface waters, southern bluefin tuna, produce very large numbers of eggs, and therefore larvae, to overcome natural losses (such as through predation by other animals or adverse hydrographical and climatic conditions). Given the small size of the permit areas in relation to the extensive spawning grounds that extend off north-western Australia, around Christmas and Cocos islands, south of Indonesia, impacts to spawning are not expected to have detrimental impacts to commercial fish species stock levels. Pelagic receptors may be impacted by increased TSS in the water column as an increase in particle load could adversely affect the respiratory efficiency of fish. However, most visual orientated fish/fauna species would likely relocate to an unaffected area to avoid the plume or simply pass unaffected through turbid waters. There is limited evidence that drilling discharges affect fishes in the natural environment, other than references to laboratory experiments, such as those undertaken by Gagnon and Bakhtyar (2013) that reported that acute toxicity of SBMs was generally low for pink snapper (*Pagrus auratus*). The barite to be used for the wells in WA-285-P and WA-343-P has very low concentrations of mercury and cadmium (less than 1 mg/kg and 3 mg/kg respectively). A study investigating barite solubility and the release of trace metal compounds to the marine environment recorded that <1% of the mercury and 15% of the cadmium dissolved from the barite after one-week exposure in sea water (Crecelius et al. 2007). Considering the low levels of these metals released to sea, and the small initial amounts of these metals present in the barite, it is considered that the discharge of drilling fluids will not have a significant environmental impact on water quality and the receptors present within the water column.

<p>While turbidity and potential associated toxicity in the permit areas is likely to increase, up to approximately 1 km from the point of discharge, the plume is expected to rapidly disperse, and any impacts will be localised and of short-term duration (Minor E).</p> <p>The discharge of drill fluids and cuttings in the permit areas will generate discharge plumes in the water column that may extend up to 1 km from the discharge locations. Due to the distance between operating MODUs in the permit areas (tens of km) no overlap of discharge plumes or cumulative impact to pelagic organisms or other submerged receptors is expected even if drilling operations were concurrent.</p>			
<p>Identify existing design and safeguards/controls measures</p>			
<ul style="list-style-type: none"> <li>INPEX chemical, assessment and approval procedure for selection of drill fluids in accordance with Section 9.6.1 and Table 9-5.</li> </ul>			
<p>Propose additional safeguards/control measures (ALARP Evaluation)</p>			
Hierarchy of control	Control measure	Used?	Justification
Elimination	Do not use drill fluids.	No	Drill fluids are a critical component for maintaining a stabilised well-bore and therefore cannot be eliminated.
	Do not discharge drill cuttings.	No	Containment of cuttings and centrifuge solids and shipping for onshore disposal was discounted due to excessive logistical costs, significant safety implications and transfer of potential environmental impact to an onshore location rather than reducing it.
	Reinject cuttings to avoid discharge to sea.	No	In cuttings reinjection, the cuttings are crushed and blended with water to create slurry. Typically, the slurry is then pumped to a suitable geological structure with an appropriate seal below the seabed through an annulus or tubing. This method of disposal is only an option if a suitable disposal well or disposal annuli are available which is not the case in the permit areas.

Substitution	Only use WBM in preference to SBM	No	Due to the expected temperature and pressure conditions in the wells, it is not technically feasible to only use WBM. In well sections with highly reactive claystones, the use of WBM is known to result in borehole breakout and collapse of the well-bore. The use of SBM results in a less reactive down-hole environment and lowers the potential for destabilisation of the well-bore. The expected reservoir intervals to be drilled are analogous to the Ichthys Development (WA-50-L) reservoirs which have been extensively tested comparing formation damage potential of both SBM & WBM. SBM has provided significantly better results to date and therefore provides the best environment to fully evaluate development potential in WA-285-P and WA-343-P. Ongoing development of high performance WBM systems will continue to be monitored with a view to possible inclusion in future wells if results indicate there will be no technical detriment.
Engineering	Use of SCE that is appropriately maintained for effective operation	Yes	Quantities of drilling fluids and cuttings discharged will be minimised through the use of SCE, which includes recirculation of the mud where possible.
	Treatment of SBM cuttings to <1% OoC	No	Drilling operations use a combination of cuttings dryers and dryer centrifuges to further reduce the amount of oil on cuttings leaving the shale shakers. Additional cuttings dryers and dryer centrifuges could further reduce the average concentration of oil on cuttings to 6–8% wt/wt. However, drying down to <1% would use significant amounts of energy and requires significant MODU deck space. Treating from <6-8% down to <1% to reduce cuttings pile biodegradation time is therefore not considered ALARP due to the energy consumption and resulting air emissions.

			Another option considered is the use of thermal desorption using a rotomill to pulverise and process the cuttings further. While this option reduces the discharge of residual SBM cuttings to the seabed, it is energy-intensive (i.e. consumes significant amounts of diesel fuel) and entails significant costs. Therefore, thermal desorption creates additional environmental impacts and has considerable practicability constraints associated with its use and has been discounted for this activity.
	Treatment of SBM cuttings to $\leq 7\%$ OoC	Yes	The proposed discharge of WBM and treatment for SBM is considered to exceed current industry benchmarks. The additional control measure of installing a cuttings dryer to further reduce the concentration of oil on cuttings provides assurance that a suitable buffer can be maintained to ensure that the average concentration of SBM OoC is no greater than 7% wt/wt (averaged over the SBM sections of the well).
Procedures & administration	Concentrations of mercury and cadmium in stock barite will meet IFC EHS guidelines (2015) effluent levels.	Yes	The barite used for drilling operations in WA-285-P and WA-343-P will have low concentrations of mercury and cadmium (less than 1 mg/kg and 3 mg/kg respectively) in accordance with IFC EHS guidelines.
	Return SBM to vendor at end of each well	Yes	To avoid bulk discharge of SBM to the marine environment reclaimed SBM will be retained on board for disposal onshore or recycled into the mud system. At the end of each well, all recaptured SBM will be returned to the vendor for reuse.
Identify the likelihood			

Smothering of benthic communities may occur adjacent to the well site albeit limited to an extent ranging to within a couple of hundred metres. With the reported limited benthic community diversity in the permit areas (Section 4.8.3) and distances to sensitive benthic communities (Echuca and Heywood Shoals located over 60 km from either permit area at the closest points) any localised loss of benthic communities in the vicinity of the wells from smothering are predicted to be relatively temporary based on the expected recovery of benthic communities through recolonisation aided by seabed currents. Therefore, with the controls in place to minimise toxicity by selecting the least hazardous chemicals coupled with the likely recolonisation within WA-285-P and WA-343-P, impacts to benthic communities from smothering are considered to be Highly Unlikely (5).

Based on the highly dispersive environment in the permit areas, short-term and intermittent nature of the discharges, the low levels of associated toxicity and the localised scale of potential impact (<1 km) it is Highly Unlikely (5) that drill fluids and cuttings will have a significant environmental impact on water quality, submerged receptors and marine fauna present within the water column.

Residual risk summary

Based on a consequence of Minor (E) and a likelihood of Highly Unlikely (5) the residual risk is Low (9).

Consequence	Likelihood	Residual risk
Minor (E)	Highly Unlikely (5)	Low (9)

Assess residual risk acceptability

Legislative requirements

The Minamata Convention covers all aspects of the life cycle of mercury, controlling and reducing mercury across a range of products, processes and industries. Australia ratified the Minamata Convention on 7 December 2021. Countries that have ratified the Convention are bound by international law to put controls in place to manage emissions, releases and disposal of mercury and mercury compounds. At present there are no specific guidelines regarding acceptable levels of mercury waste in drilling fluids. The discharge of drill fluids and cuttings to the marine environment is considered to be standard practice in industry. Barite contamination, with mercury and cadmium, will be managed in accordance with IFC EHS Guidelines – Offshore Oil and Gas Development (2015) that represent good international industry practice.

Relevant person consultation

Licence holders from the southern bluefin tuna fishery and members of industry association, Tuna Australia, identified as relevant persons, raised a relevant matter with regard to potential impacts, on tuna spawning and recruitment from the proposed activity (Appendix B.6) noting that this was not specifically in relation to drilling discharges. Upon receipt of this feedback, the consequence assessment presented in this table of the EP was revised and updated.

Conservation management plans / threat abatement plans

Several conservation management plans have been considered in the development of this EP (refer Appendix A.2). Emissions and discharges are listed as threatening processes; however, none of the recovery plans or conservation advice documents has specific actions relating to discharges of drill fluids or cuttings in remote offshore waters.

ALARP summary

Although the level of environmental risk is assessed as Low, a detailed ALARP evaluation was undertaken to determine what additional control measures could be implemented to reduce the level of impacts and risks. No additional controls, beyond those identified during the detailed ALARP assessment can reasonably be implemented to further reduce the risk of impact.

Acceptability summary

Based on the above assessment, the proposed controls are expected to effectively reduce the risk of impacts to acceptable levels because:

- the activity demonstrates compliance with legislative requirements/industry standards
- the activity takes into account relevant person feedback
- the activity is managed in a manner that is consistent with the intent of conservation management documents
- the activity does not compromise the relevant principles of ESD
- the predicted level of impact does not exceed the defined acceptable level in that the environmental risk has been assessed as “low”, the consequence does not exceed “C – significant” and the risk has been reduced to ALARP.

Environmental performance outcomes	Environmental performance standards	Measurement criteria
All discharges to the marine environment of <b>SBM drill cuttings will be ≤7% wt/wt oil on cuttings</b> (averaged over the SBM sections).	Oil-on-cuttings for SBM cuttings will be <b>≤ 7%.</b>	Daily OoC results recorded in the daily drilling report.
Limit planned discharges from drilling activities so that impacts to receptors will be localised.	Volumes of drill fluids discharged will be minimised through the use of SCE, which includes recirculation of the mud where possible.	Records of all operational discharges (planned and unplanned) of drilling fluids and cuttings are recorded on the MODU and demonstrate compliance with all requirements for operational discharge.

	<p>Maintenance of SCE in accordance with the MODU preventive maintenance system.</p>	<p>Documentation of planned and completed maintenance and testing of SCE in accordance with the MODU preventive maintenance system.</p>
	<p>INPEX will verify that the drilling fluids contractor adheres to the following with respect to limits on mercury and cadmium concentration in drilling fluids including:</p> <ul style="list-style-type: none"> <li>• Mercury (Hg) – 1 mg/kg dry weight in stock barite (WBM and SBM)</li> <li>• Cadmium (Cd) – 3 mg/kg dry weight in stock barite (WBM and SBM).</li> </ul>	<p>Drilling fluids will have concentrations of mercury and cadmium less than 1 mg/kg and 3 mg/kg respectively in stock barite. Documentation of QA/QC acceptance process undertaken for all individual batches of barite used.</p>
	<p>At the end of each well, all recaptured SBM will be returned to the vendor for reconditioning and reuse.</p>	<p>Drilling fluids report Request for transport docket for return to shore base End of well report</p>

Cement, cementing fluids and additives

Table 7-8: Impact and evaluation – discharges of cement, cementing fluids and additives

Identify hazards and threats	
<p>Planned cement discharges at the seabed during the cementing of conductors and casing, and during well abandonment operations, will occur as part of the drilling activity in WA-285-P and WA-343-P. Small volumes (1–2 m<sup>3</sup> of cement per section) may also be discharged as a slurry at the sea surface from circulating cement with the riser installed, or from cleaning of cementing tanks and equipment on the MODU. Contingency discharges of cement may also be required if a cementing job does not meet technical and safety standards. In this instance any remaining cement will be mixed and operationally discharged within the well bore or to the marine environment.</p> <p>As described in Section 3.3.1, it is standard practice to allow some excess cement slurry to overflow when cementing the top-hole section of a well to visually confirm that the annular space between the hole and the casing has been filled. This may typically cover an area of up to 10 m<sup>2</sup> per well.</p> <p>The discharge of cement, cementing fluids and additives has the potential to reduce water quality through increasing turbidity or toxicity which may affect organisms within the water column. Seabed cement discharges may result in smothering of benthic communities in the vicinity of the well.</p>	
Potential consequence	Severity
<p>The particular values and sensitivities with the potential to be impacted by cementing discharges (fluids/additives) are:</p> <ul style="list-style-type: none"> <li>• benthic communities</li> <li>• fish (demersal fish community KEF and commercial species).</li> </ul> <p>Impact pathways associated with the discharge of cement during drilling operations are associated with smothering of benthic communities in close proximity to the wells, and an increase in turbidity or toxicity within the water column potentially impacting on water quality.</p> <p><i>Smothering</i></p> <p>As described in Table 7-7, discharges at the seabed may result in the smothering of benthic communities in the immediate vicinity of the wells in WA-285-P and WA-343-P. Discharges of cement (potentially covering up to approximately 10 m<sup>2</sup> per well) will result in burial and loss of benthic communities immediately adjacent to the well, particularly for sessile epifauna.</p>	<p>Insignificant (F)</p>



As described in Section 4.8.3, seabed conditions within the permit areas are suggestive of strong near-seabed currents and mobile sediments that do not favour the development of diverse epibenthic communities. The presence of sand waves are also expected to limit the development of infaunal communities in this habitat due to substrate instability associated with changes in the currents. Any potential impacts to benthic communities and loss of benthic habitat due to cement discharges are expected to be at a local scale, therefore the consequence is considered to be Insignificant (F); particularly given the context of the potential area impacted < 10 m<sup>2</sup> per well, in comparison to the total area of WA-285-P and WA-343-P. There are no sensitive or unique benthic habitats that would be impacted by seabed cement discharges.

Concurrent drilling operations may occur during the activity either with MODUs operating in both WA-285-P and WA-343-P and also the continued Ichthys drilling operations in the nearby in WA-50-L. Given the distance (tens of km) between any concurrently operating MODUs, the discharge of cement, cementing fluids and additives that may result in smothering of benthic communities up to approximately 10 m<sup>2</sup> at each well will be highly localised. Therefore, no impacts from smothering due to cement discharges are predicted from concurrent drilling operations.

#### *Turbidity*

Disposal of cement discharges overboard at the sea surface may affect other parts of the marine ecosystem such as pelagic organisms and other submerged receptors that may be present within the discharge plume. Intermittent discharges of cement, albeit at small volumes (1–2 m<sup>3</sup>) may create a temporary and localised turbid plume, which will gradually dilute as it disperses through the water column as a result of the action of currents. Data on the longevity of cement discharge plumes is not available; however, plumes associated with drilling muds have been reported to be visible in the upper water column for up to approximately 1 km from the discharge location and for a short time (approximately 24 hours) after discharge (INPEX 2010). Therefore, low volume cement discharges would also be expected to dissipate within this timeframe and exposure to increased turbidity and potential toxicity associated with the discharge is expected to be short term, and intermittent.

The seabed in both WA-285-P and WA-343-P is below the photic zone (water depths approximately 290 m and 350 m respectively) and benthic communities are expected to be largely unaffected from the presence of a discharge plume (reducing light exposure levels), due to the high dispersion and mixing of the cement discharge within the water column.

<p>Pelagic species including the demersal fish community KEF which overlaps WA-285-P and WA-343-P, fish species targeted by commercial fisheries, and EPBC-listed species transiting the area, are unlikely to be significantly impacted as they are likely to exhibit avoidance behaviour. There is the potential for individual fishes to be exposed to the discharge; however, this would be limited to those fish present at the sea surface rather than those associated with the demersal fish community KEF. Pelagic receptors may be impacted by increased suspended solids in the water column as an increase in particle load could adversely affect the respiratory efficiency of fish. However, most visual orientated fish/fauna species would likely relocate to an unaffected area to avoid the plume or simply pass unaffected through turbid waters. The potential for toxicity effects to fish and pelagic organisms is expected to be limited given toxicity is mainly associated with cement additives that are used in minor quantities. Given the dispersive environment in the permit areas and expected high level of dilution, any exposure is expected to be limited to a few individuals within the immediate vicinity of the discharge. Therefore, the discharge of cement/cement slurry will not have a significant environmental impact on water quality and the receptors present within the water column (Insignificant F).</p> <p>The discharge of cement, cementing fluids and additives in the permit areas will generate discharge plumes in the water column that may extend up to 1 km from the discharge locations. Due to the distance between operating MODUs in the permit areas (tens of km) no overlap of discharge plumes or cumulative impact to pelagic organisms or other submerged receptors is expected even if drilling operations were concurrent.</p>			
Identify existing design and safeguards/controls measures			
<ul style="list-style-type: none"> <li>INPEX chemical, assessment and approval procedure for selection of cementing chemicals in accordance with Section 9.6.1 and Table 9-5.</li> <li>Records of all operational cement discharges will be monitored and maintained. Any remaining cement will be mixed and operationally discharged within the well bore or to the marine environment.</li> </ul>			
Propose additional safeguards/control measures (ALARP Evaluation)			
Hierarchy of control	Control measure	Used?	Justification
Elimination	Do not cement well casing	No	Cementing of well casing is required and cannot be eliminated. Only the conductor hole section will result in the discharge of cement to the seabed. Through casing design of the lower well sections, no cement will be discharged to the seabed from the lower casings.
Substitution	None identified	N/A	N/A
Engineering	None identified	N/A	N/A

Procedures & administration	Dye used to provide a pre-indicator of cement overflow to seabed	Yes	A dye is used during cementing operations to indicate cement overflow, therefore minimising the volume discharged at the seabed.
Identify the likelihood			
<p>Localised smothering of benthic communities and habitats may occur immediately adjacent to the well site from seabed cement returns for an area of up to 10 m<sup>2</sup> at each well. With the reported limited benthic community diversity in the permit areas (Section 4.8.3) and the controls in place to minimise toxicity, the loss of sensitive benthic communities from smothering due to cement discharge is considered Highly Unlikely (5).</p> <p>Based on the highly dispersive environment in WA-285-P and WA-343-P, the short-term and intermittent nature of the discharges, the low levels of associated toxicity and the localised scale of potential impact (&lt;1 km), it is Highly Unlikely (5) that cement discharges will have a significant environmental impact on water quality and the marine fauna present within the water column.</p>			
Residual risk summary			
Based on a consequence of Insignificant (F) and a likelihood of Highly Unlikely (5) the residual risk is Low (10).			
Consequence	Likelihood		Residual risk
Insignificant (F)	Highly Unlikely (5)		Low (10)
Assess residual risk acceptability			
<p>Legislative requirements</p> <p>The discharge of cement to the marine environment is considered to be standard practice in industry and there are no relevant Australian environmental legislative requirements that relate specifically to the discharge.</p> <p>Relevant person consultation</p> <p>No relevant person concerns have been raised regarding potential impacts and risks from planned discharges of cement.</p> <p>Conservation management plans / threat abatement plans</p> <p>Several conservation management plans have been considered in the development of this EP (refer Appendix A.2). Emissions and discharges are listed as threatening processes; however, none of the recovery plans or conservation advice documents has specific actions relating to discharges of cement in remote offshore waters.</p> <p>ALARP summary</p>			

Although the level of environmental risk is assessed as Low, a detailed ALARP evaluation was undertaken to determine what additional control measures could be implemented to reduce the level of impacts and risks. No additional controls, beyond those identified during the detailed ALARP assessment can reasonably be implemented to further reduce the risk of impact.

Acceptability summary

Based on the above assessment, the proposed controls are expected to effectively reduce the risk of impacts to acceptable levels because:

- the activity demonstrates compliance with legislative requirements/industry standards
- the activity takes into account relevant person feedback
- the activity is managed in a manner that is consistent with the intent of conservation management documents
- the activity does not compromise the relevant principles of ESD
- the predicted level of impact does not exceed the defined acceptable level in that the environmental risk has been assessed as **“low”**, **the consequence does not exceed “C – significant”** and the risk has been reduced to ALARP.

Environmental performance outcomes	Environmental performance standards	Measurement criteria
Limit planned discharges from drilling activities so that impacts to receptors will be localised.	Volumes of excess cement will be minimised through optimising operational cement discharges.	Records of all operational discharges (planned and unplanned) of cement are recorded on the MODU and demonstrate compliance with all requirements for operational discharge.
	Use dye to provide a pre-indicator of cement overflow to seabed	Daily drilling report End of well cementing report

BOP and hydraulic control fluids

Table 7-9: Impact and evaluation – subsea discharges of BOP and hydraulic control fluids

Identify hazards and threats	
<p>BOP function testing is undertaken approximately weekly or fortnightly during the drilling activity. Generally, an initial pre-deployment function testing is undertaken on deck with no resulting subsea discharge of BOP control fluid. However, function testing will occur subsea, with each test releasing approximately 0.25 m<sup>3</sup> of BOP control fluid. BOP control fluid generally consists of water mixed with a glycol based detergent, or equivalent water based, anti-corrosive additive suitable for open hydraulic systems. BOP control fluid is ranked as a Group E product by the OCNS and, therefore, considered PLONOR.</p> <p>Water-based hydraulic fluids will also be discharged subsea (typically &lt; 1 m<sup>3</sup>) through the use of ROVs during the drilling activity which may result in a temporary and localised reduction in water quality.</p>	
Potential consequence	Severity
<p>The particular values and sensitivities with the potential to be impacted by discharges of BOP and hydraulic control fluids are:</p> <ul style="list-style-type: none"> <li>• EPBC-listed species</li> <li>• fish (demersal fish community KEF and commercial species)</li> <li>• benthic communities.</li> </ul> <p>Discharges of BOP control fluids and other water-based hydraulic fluids could introduce hazardous substances into the water column, albeit in low concentrations, and in the majority of cases the chemicals are classified as PLONOR. However, this could result in a reduction in water quality, and impacts to EPBC-listed species and other pelagic organisms such as fish species (demersal fish community KEF or those species targeted by commercial fisheries) and benthic communities given some discharges may occur at or near the seabed.</p> <p>There are no known BIAs or aggregation areas that would result in sedentary behaviour in WA-285-P and WA-343-P. The outer extent of the green turtle internesting buffer at Browse Island overlaps the far north eastern boundary of WA-285-P (Figure 4-6); however, the well location, and hence location of the discharge, is in the south-west of the permit area (Figure 1-1) approximately 40 km from Browse Island at its closest point. Additionally, a whale shark foraging BIA is located approximately 5 km from WA-285-P and approximately 10 km from WA-343-P at its closest point (Figure 4-7). However, based on the levels of whale shark abundance observed in numerous studies (as described in Section 4.9.4), the likelihood of whale shark presence within this BIA is considered very low, with no specific seasonal pattern of migration.</p>	<p>Insignificant (F)</p>

<p>Considering the low volumes and low levels of associated toxicity of the BOP and hydraulic control fluid discharges in the dispersive open environment and the highly mobile and transient nature of marine fauna, any potential exposure is likely to be limited to individuals close to the discharge point at the time of the discharge. Therefore, impacts are considered to be of inconsequential ecological significance to EPBC-listed species and are therefore considered Insignificant (F).</p> <p>There is the potential for individual fishes, directly adjacent to the discharge point to be exposed to the intermittent subsea discharges. Such exposure is not expected to result in any significant impacts to fishes based on the high dilution levels, low toxicity, low volumes and in consideration of the highly mobile nature and ability of fishes to move away. The potential consequence on the demersal fish community KEF and any species targeted by commercial fisheries will be short-term and highly localised with inconsequential ecological significance (Insignificant F).</p> <p>As described in Section 4.8.3, seabed conditions within the permit areas are suggestive of strong near-seabed currents and mobile sediments that do not favour the development of diverse epibenthic communities. The presence of sand waves is also expected to limit the development of infaunal communities in this habitat due to substrate instability associated with changes in the currents. Subsea discharges of BOP and hydraulic control fluids are expected to be highly influenced by natural dispersion and dilution processes associated with the currents experienced in the offshore environment. Potential impacts on benthic communities may include lethal and sub-lethal effects; however, impacts are expected to be limited both spatial and temporally due to intermittent nature, small volumes and low toxicity of the discharges. Therefore, the consequence of the exposure of benthic communities would be at a local scale with a temporary impact and is ranked as Insignificant (F).</p> <p>Concurrent drilling operations may occur during the activity either with MODUs operating in both WA-285-P and WA-343-P and also the continued Ichthys drilling operations in the nearby in WA-50-L. Given the distance (tens of km) between any concurrently operating MODUs, the discharge BOP and hydraulic control fluids would be highly localised with no overlap of discharges expected. Therefore, no impacts to EPBC listed species, fish or benthic communities from BOP and hydraulic controls fluid discharges are expected.</p>			
Identify existing design and safeguards/controls measures			
<ul style="list-style-type: none"> <li>• INPEX chemical, assessment and approval procedure for selection of drill fluids in accordance with Section 9.6.1 and Table 9 5.</li> <li>• Records of BOP and hydraulic control fluid discharges will be monitored and maintained.</li> </ul>			
Propose additional safeguards/control measures (ALARP Evaluation)			
Hierarchy of control	Control measure	Used?	Justification

Elimination	No subsea discharges of BOP or hydraulic control fluids	No	Function and pressure testing of the BOP is required to ensure safe and effective operation. Therefore, the subsea discharge of BOP control fluids cannot be eliminated. Hydraulic fluid (water-based) discharges are inherent for the use of subsea equipment e.g. ROVs. There are no practicable ways to eliminate these small volume discharges (< 1 m <sup>3</sup> ).  There are no practicable ways to capture the small volumes of such discharges and based on the chemical composition (water/glycol based) these discharges are considered to PLONOR when discharged to the marine environment.
Substitution	None identified	N/A	N/A
Engineering	None identified	N/A	N/A
Procedures & administration	None identified	N/A	N/A
Identify the likelihood			
Impacts to the EPBC-listed marine fauna, fish and benthic communities in the vicinity of the BOP and hydraulic control fluid discharges are not expected to occur and are considered Unlikely (4). This is largely due to the water depth, low toxicity and low volumes of the discharged fluids. The open-ocean, highly dispersive environment in the permit areas will also result in high levels of dilution further reducing the likelihood of exposure to the identified receptors.			
Residual risk summary			
Based on a consequence of Insignificant (F) and a worst-case likelihood of Unlikely (4) the residual risk is Low (9).			
Consequence		Likelihood	Residual risk
Insignificant (F)		Unlikely (4)	Low (9)
Assess residual risk acceptability			
Legislative requirements			
The majority of BOP and hydraulic control fluids are based on fresh water with additives. Subsea discharges of these fluids to the marine environment is considered to be standard practice in industry and there are no relevant Australian environmental legislative requirements that relate specifically to these discharges.			

<p>Relevant person consultation</p> <p>No relevant person concerns have been raised regarding potential impacts and risks from planned subsea discharges of BOP and hydraulic control fluids.</p> <p>Conservation management plans / threat abatement plans</p> <p>Several conservation management plans have been considered in the development of this EP (refer Appendix A.2). Emissions and discharges are listed as threatening processes; however, none of the recovery plans or conservation advices has specific actions relating to discharges of BOP control/hydraulic fluid discharges in remote offshore waters.</p> <p>ALARP summary</p> <p>Although the level of environmental risk is assessed as Low, a detailed ALARP evaluation was undertaken to determine what additional control measures could be implemented to reduce the level of impacts and risks. No additional controls, beyond those identified during the detailed ALARP assessment can reasonably be implemented to further reduce the risk of impact.</p> <p>Acceptability summary</p> <p>Based on the above assessment, the proposed controls are expected to effectively reduce the risk of impacts to acceptable levels because:</p> <ul style="list-style-type: none"> <li>• the activity demonstrates compliance with legislative requirements/industry standards</li> <li>• the activity takes into account relevant person feedback</li> <li>• the activity is managed in a manner that is consistent with the intent of conservation management documents</li> <li>• the activity does not compromise the relevant principles of ESD</li> <li>• the predicted level of impact does not exceed the defined acceptable level in that the environmental risk has been assessed as <b>“low”</b>, the consequence <b>does not exceed “C – significant”</b> and the risk has been reduced to <b>ALARP</b>.</li> </ul>		
Environmental performance outcomes	Environmental performance standards	Measurement criteria
Limit planned discharges from drilling activities so that impacts to receptors will be localised.	Records of subsea discharges will be monitored and maintained.	Daily drilling report



7.2 Waste management

Table 7-10: Impact and evaluation – inappropriate waste handling and disposal

Identify hazards and threats	
<p>The MODUs and vessels associated with the activity will generate a variety of non-hazardous and hazardous wastes, which will not be intentionally discharged to the marine environment. Unsecured or incorrectly stored waste may be windblown or displaced into the ocean where it has the potential to negatively affect marine ecosystems. Wastes can cause contamination of the ocean resulting in changes to water quality e.g. through the leaching of chemicals from wastes, which can cause changes to ecosystem productivity and diversity. Additionally, certain types of waste can cause injury to marine fauna through entanglement or may affect the health of marine species that ingest waste materials.</p>	
Potential consequence	Severity
<p>The particular values and sensitivities with the potential to be impacted by improper waste management are:</p> <ul style="list-style-type: none"> <li>• EPBC-listed species</li> <li>• planktonic communities.</li> </ul> <p>Improper management of wastes may result in pollution and contamination of the environment. There is also the potential for secondary impacts on marine fauna that may interact with wastes, such as packaging and binding, should these enter the ocean. These include physical injury or death of marine biota (as a result of ingestion, or entanglement of wastes).</p> <p>A change to water quality has the potential to impact planktonic communities found at the sea surface. Impacts associated with the accidental loss of hazardous waste materials to the ocean as a result of leaching from waste would be localised and limited to the immediate area. These are further likely to be reduced due to the dispersive open ocean offshore environment. While plankton abundance in close proximity to the accidental loss location, or leaching waste items may be reduced, this is expected to be of insignificant ecological consequence (Insignificant F).</p> <p>Marine fauna can become entangled in waste plastics, which can also be ingested when mistaken as prey (Ryan et al. 1988), potentially leading to injury or death. For example, due to indiscriminate foraging behaviour, marine turtles have been known to mistake plastic for jellyfish (Mrosovsky et al. 2009). Seabirds foraging on planktonic organisms, generally at, or near, the surface of the water column may eat floating plastic (DEE 2018). Other items (e.g. discarded rope) have also been found to entangle fauna, such as birds and marine mammals. The accidental loss of waste to the ocean may result in injury or even death to individual transient EPBC listed species, but this is not expected to result in a threat to population viability of a protected species (Insignificant F).</p>	<p>Insignificant (F)</p>
Identify existing design and safeguards/controls measures	
<ul style="list-style-type: none"> <li>• Spill containment and recovery equipment</li> <li>• MODUs and vessels will manage waste in accordance with MARPOL Annex V, specifically maintain and implement a garbage management plan.</li> </ul>	

Propose additional safeguards/control measures (ALARP Evaluation)			
Hierarchy of control	Control measure	Used?	Justification
Elimination	None identified	N/A	N/A
Substitution	None identified	N/A	N/A
Engineering	None identified	N/A	N/A
Procedures & administration	Premobilisation HSE inspection of MODU/vessel and waste contractors	Yes	HSE inspection conducted pre-mobilisation and ongoing during the activity will confirm correct storage, labelling and handling of wastes including presence of netting to prevent windblown waste
	Use of licensed onshore waste facility or contractor to receive / dispose of waste.	Yes	The use of licensed onshore waste receiving facilities/contractors provides assurances that wastes will be correctly handled and disposed of once unloaded from vessels.
	Reporting of equipment or materials lost to sea	Yes	Any equipment or materials and waste lost to the marine environment will be reported and records maintained in the garbage management plan.
Identify the likelihood			
<p>During previous INPEX drilling activities with MODUs and associated vessels, the accidental release/loss of waste or equipment overboard has occurred on several occasions often through incorrect storage and handling. Therefore, impacts to EPBC-listed species and planktonic communities from the unplanned release of waste to the ocean are considered Possible (3). However, this is considered to be ecologically insignificant given the absence of any known BIAs that overlap the well locations and the dispersive open ocean environment.</p>			
Residual risk summary			
Based on a consequence of Insignificant (F) and a worst-case likelihood of Possible (3) the residual risk is Low (8).			
Consequence	Likelihood	Residual risk	
Insignificant (F)	Possible (3)	Low (8)	

## Assess residual risk acceptability

## Legislative requirements

The existing preventative and mitigation measures outlined to prevent accidental release of hazardous and non-hazardous wastes are consistent with, and typical of, good industry practice. Procedures for managing waste (i.e. handling, storage, transfer and disposal) will be outlined in the vessel/MODU garbage management plan, in accordance with MARPOL Annex V requirements.

## Relevant person consultation

No relevant person concerns have been raised regarding potential impacts and risks from improper waste handling and disposal.

## Conservation management plans / threat abatement plans

Several conservation management plans have been considered in the development of this EP (refer Appendix A.2). Injury and fatality to vertebrate marine life caused by ingestion of, or entanglement in, harmful marine debris was listed in August 2003 as a key threatening process under the EPBC Act as detailed in the 'Threat abatement plan for impacts of marine debris on the vertebrate wildlife of Australia's coasts and oceans' (DEE 2018). The entanglement and ingestion of marine debris is also identified as a threat in the 'Recovery Plan for Marine Turtles in Australia' (DEE 2017a). Specific actions which contribute to the long-term prevention of marine debris (Objective 1 of the 'Threat abatement plan for marine debris on vertebrate marine life' (DEE 2018)) have been adopted including compliance with applicable legislation in relation to the improvement of waste management practices, such as MARPOL Annex V.

## ALARP summary

Although the level of environmental risk is assessed as Low, a detailed ALARP evaluation was undertaken to determine what additional control measures could be implemented to reduce the level of impacts and risks. No additional controls, beyond those identified during the detailed ALARP assessment can reasonably be implemented to further reduce the risk of impact.

## Acceptability summary

Based on the above assessment, the proposed controls are expected to effectively reduce the risk of impacts to acceptable levels because:

- the activity demonstrates compliance with legislative requirements/industry standards
- the activity takes into account relevant person feedback
- the activity is managed in a manner that is consistent with the intent of conservation management documents
- the activity does not compromise the relevant principles of ESD
- the predicted level of impact does not exceed the defined acceptable level in that the environmental risk has been assessed as "low", the consequence does not exceed "C – significant" and the risk has been reduced to ALARP.

Environmental performance outcomes	Environmental performance standards	Measurement criteria
No unplanned loss of equipment, materials or wastes to the marine environment during the petroleum activity.	Loss of equipment or materials lost to sea will be reported.	Incident report of equipment or material lost overboard.
	Spill kits will be available on board the MODUs and vessels.	Inspection records confirm spill kits are available and stocked.
	Premobilisation HSE inspection of MODU/vessel and waste contractors confirm capability for the correct storage, labelling and handling of wastes.	Premobilisation HSE inspection records.
	<p>Garbage management plans will be maintained and implemented on MODUs and vessels in accordance with Marine Order 95; Annex V of MARPOL (garbage), and will specifically include:</p> <ul style="list-style-type: none"> <li>• procedures for collecting, storing, processing and disposing of all waste types (including segregation and labelling)</li> <li>• the use of waste storage and transfer equipment</li> <li>• the use of food waste macerators/comminuters</li> <li>• garbage record keeping requirements, including discharges, and disposals of waste in a Garbage Record Book</li> <li>• communication of waste management practices and awareness materials for crew.</li> </ul>	<p>HSE inspection records confirm garbage management plans are implemented on MODUs and vessels.</p> <p>Incident report of waste lost overboard.</p>
	Onshore transfer/disposal of MODU/vessel waste will be completed using a licensed waste facility or contractor.	Garbage Record Book demonstrates onshore transfer/disposal of facility/vessel waste via a licensed waste facility or contractor.

7.3 Noise and vibration

Table 7-11: Impact and risk evaluation – underwater noise

Identify hazards and threats	
<p>Marine fauna may be exposed to several sources of noise emissions during the activity, as summarised below:</p> <ul style="list-style-type: none"> <li>• Operation of the MODU (including power generation and drilling) has the potential to expose sound sensitive marine fauna to localised changes in underwater noise levels. Machinery positioned on the deck is above the waterline and therefore the overall noise levels will be low. The level of underwater noise associated with MODUs while not drilling are reported to decrease rapidly with distance from the MODU. In a study by McCauley (1998), it is reported that during non-drilling operations sound levels of <b>117 dB re 1µPa were recorded at a distance of 125 m from the wellhead</b> and were audible over a distance of 1-2 km. This noise was reported to be associated with the discharging of fluids and the <b>operation of pumping systems and mechanical plant, etc. While actively drilling, sound levels of 115 dB re 1µPa were recorded at a distance of 405 m from the wellhead (McCauley 1998). Other studies have reported measured sound levels of 136 dB re 1 µPa at 100 m distance from drilling activities (Nedwell &amp; Edwards 2004) and Greene (1986) reported 117 dB re 1 µPa at 185 m and 110 dB re 1µPa at 926 m. The noise generated during drilling activities was primarily associated with the use of the drill string.</b></li> <li>• The pre-drill surveys will use underwater acoustic techniques including MBES, side-scan sonar and sub-bottom profiling (Section 3.2). The surveys will be conducted from a dedicated geophysical survey vessel and have the potential to expose sound sensitive marine fauna to localised changes in underwater noise levels. The different survey devices shall emit various levels of sound at a range of frequencies. MBES and side-scan sonar transmit at high frequencies (approximately 120–410 kHz) and produce a highly focused beam of sound towards the seabed, due to this there is very limited horizontal sound propagation, and it is expected to rapidly attenuate. Indicative ranges of sound outputs at source are <b>163-190 dB re 1 µPa at 1 m</b> and <b>137-200 dB re 1 µPa at 1 m, for MBES and side-scan sonar respectively.</b> Sub-bottom profiling systems operate at low frequency (1-16 kHz) directing beams of sound towards the seabed and therefore horizontal sound propagation is again limited. Sound outputs at source may range from <b>142-200 dB re 1 µPa at 1 m.</b></li> <li>• Operating vessels (pre-drill survey and support vessels) have the potential to expose sound sensitive marine fauna to localised changes in underwater noise levels. Vessel engines and dynamic positioning thrusters are capable of generating sound at levels between 108 and 182 dB re 1 µPa at 1 m at dominant frequencies between 50 Hz and 7 kHz (Simmonds et al. 2004; McCauley 1998).</li> <li>• As part of reservoir evaluation, a VSP will be undertaken at each well in the permit areas (Section 3.3.4), which will generate high-intensity, impulsive sound that will propagate into the water column with the potential to expose sound sensitive marine fauna to localised changes in underwater noise levels. Sound levels generated during the VSP will be <b>232 dB re 1 µPa@1 m with a frequency range of 5–125 Hz.</b> Each VSP will be of short duration (approximately 18 hours).</li> </ul>	
Potential consequence	Severity
The particular values and sensitivities with the potential to be impacted by underwater noise emissions are:	Insignificant (F)

- EPBC-listed species (cetaceans, turtles and whale sharks)
- fish (demersal fish community KEF and commercial species).

The generation of underwater sound from the pre-drill survey and drilling activities in WA-285-P and WA-343-P has the potential to impact EPBC-listed marine fauna, specifically marine mammals and turtles. Sudden exposure to very high sound levels or exposure for prolonged periods can result in a permanent threshold shift (PTS) or temporary threshold shift (TTS) in hearing. Noise impact thresholds proposed by the U.S. National Oceanic and Atmospheric Administration and National Marine Fisheries Service (NMFS 2018) for cetaceans, suggest that, for the types of cetacean with the potential to occur in the permit areas, PTS could occur as a result of peak sound pressure levels of 219 – 230 dB re 1  $\mu$ Pa or prolonged exposure to sound exposure levels of 198 – 199 dB re 1  $\mu$ Pa $\cdot$ s. TTS could occur at peak sound pressure levels of 213 - 224 dB re 1  $\mu$ Pa or prolonged exposure to sound exposure levels of 168 - 170 dB re 1  $\mu$ Pa $\cdot$ s (NMFS 2018). Popper et al. (2014) propose conservatively protective sound pressure thresholds of 207 - 213 dB re 1  $\mu$ Pa for potential injury to various types of fish and for marine turtles. With the exception of the VSP, no sources of noise associated with the activity are expected to have the potential to result in PTS or TTS. However, a range of behavioural changes can occur in cetaceans in response to sound pressure levels as low as 120 dB re 1  $\mu$ Pa (Southall et al. 2007). This may include minor responses, such as a momentary pause in vocalisation or reorientation of an animal to the source of the sound, or avoidance responses (Southall et al. 2007). For cetaceans, NMFS (2019) propose a behavioural response threshold of 160 dB re 1  $\mu$ Pa for impulsive sound sources and 120 dB re 1  $\mu$ Pa for continuous sound sources (NMFS 2019). Marine turtles are not reported to use sound for communication; however, it is proposed that they may use sound for navigation, avoiding predators and finding prey (Dow Piniak 2012). For received sound pressure levels above 166 dB re 1  $\mu$ Pa, turtles have shown some increased swimming activity and above 175 dB re 1  $\mu$ Pa can become more agitated (McCauley et al. 2000). The 166 dB re 1  $\mu$ Pa level is used as the threshold level for a behavioural disturbance response by turtles (NSF 2011).

A limited number of commercially significant fish stocks may be present in WA-285-P and WA-343-P that may be exposed to underwater noise emissions (Table 4-6). Given the deep waters, commercially significant fish stocks in the permit areas are primarily limited to highly mobile pelagic species such as tuna and billfish. WA-285-P and WA-343-P overlap the furthest eastern boundary of the extensive southern bluefin tuna spawning grounds in the Indian Ocean (Patterson et al. 2022). Spawning is reported to occur from September to April in surface waters where water temperatures above 24 °C are thought to influence the survival of eggs and larvae (Patterson et al 2008; Davis & Farley 2001). The water depths and absence of suitable habitats mean WA-285-P and WA-343-P are not considered to offer spawning or aggregation habitat for commercially targeted demersal species which occur in the shallower waters on the continental shelf (typically less than 200 m water depth) (Section 4.12.1). Deep water scampi (*Metanephrops australiensis*), targeted by the North West Slope Trawl Fishery, may occur on the continental slope in the water depths where WA-285-P and WA-343-P are located. Scampi may be fished on the slope in water depths deeper than 200 m but are most commonly found at depths of 420 - 500 m (AFMA 2022g; Harte & Curtotti 2018). Timing of scampi spawning is uncertain, but studies of similar species suggest that spawning occurs in September-October (AFMA 2022g).

Pre-drill survey noise

MBES and side-scan sonar are high-frequency, low-energy geophysical survey instruments, which are understood to be significantly less intrusive than high-energy seismic survey instruments. As described in Section 3.2.1, sound source levels produced by these different instruments range from 137–200 dB re 1  $\mu$ Pa at 1 m. The high frequency pulses of sound are produced in a highly directional and narrow beams, which rapidly attenuate outside of the beam (Zykov 2013). The high operating frequencies of MBES and side-scan instruments place the dominant sound frequencies above the auditory range of most marine fauna species, including cetaceans, turtles and fish, although some instruments may be audible to mid-frequency and high-frequency cetaceans such as some dolphin species (MacGillivray et al. 2013; Zykov 2013). It is not expected that fauna would persist in close proximity to the instruments long enough for impacts to occur. Therefore, no impacts to these **species'** groups are expected and hearing impairment impacts to marine fauna from MBES and side-scan sonar have not been previously reported. Therefore, the consequence is considered to be Insignificant (F).

Sub-bottom profilers produce directional beams of sound towards the seabed and therefore sound propagation tends to be downwards in the water column with limited horizontal propagation. The sub-bottom profiling system used for the pre-drill surveys will operate at low frequency (1-16 kHz) with sound output at source ranging from 142 - **200 dB re 1  $\mu$ Pa at 1 m**. Underwater noise modelling of a range of sub-bottom profiling systems reported that sound levels may be audible over several kilometres (Zykov 2013). On this basis, behavioural responses to the sub-bottom profiler may occur in marine fauna limited to within a few kilometres of the survey vessel depending on the hearing range of the receptors. Based on the distances to the closest cetacean aggregation areas/migration corridors (humpback whale calving BIA approximately 100 km south-east from WA-285-P and 175 km east from WA-343-P at the closest points; and the blue whale migration BIA approximately 75 km to the west of WA-285-P and approximately 40 km west of WA-343-P at the closest points), and the short duration of the survey (approximately 10 days), any impacts from the pre-drill site survey are considered to be Insignificant (F). The sound levels generated during the pre-drill site survey will not be audible to any blue whales foraging at Scott Reef approximately 100 km and 130 km from WA-285-P and WA-343-P respectively. Therefore, they are not expected to be impacted or displaced from the foraging grounds (DAWE 2021).

As WA-343-P is located approximately 68 km north of Browse Island, sound emissions from the pre-drill site survey will not disturb green turtles present in the 20 km internesting buffer. WA-285-P slightly overlaps the outer boundary of the Browse Island 20 km internesting buffer, with Browse Island itself located 19 km from WA-285-P at its closest point. However, the proposed location of the activity in WA-285-P is in the south-west of the permit area (Figure 1-1), approximately 40 km from Browse Island at its closest point. Popper et al. (2014) reported that turtles are highly likely to exhibit a behavioural response if they encounter the source within tens of metres, a moderate response if they encounter the source at intermediate ranges (hundreds of metres), and a low response if they are far (thousands of metres) from the source. Based on the sound source levels of the survey equipment and the NFS **behavioural response threshold of 166 dB re 1  $\mu$ Pa** (NFS 2011), any turtles present during the site survey and in proximity to the source may be disturbed and actively swim away. During internesting periods (November to March) studies have shown that green turtles tend to stay relatively close to their nesting beach, approximately 7 km as reported by Pendoley (2005) and generally within 10 km (Waayers et al. 2011). Therefore, any impacts are expected to be temporary with inconsequential behavioural responses (Insignificant F).

A BIA for whale shark foraging is located approximately 5 km from WA-285-P and approximately 10 km from WA-343-P at its closest point; however, whale sharks are transient and there are no aggregation sites in proximity to the permit areas. Based on the levels of whale shark abundance observed in numerous studies (as described in Section 4.9.4), the likelihood of whale shark presence within this BIA is considered very low, with no specific seasonal pattern of migration. Sharks and rays (elasmobranchs) are considered to be less sensitive to sound pressure than bony finfish (McCauley 1994). Studies show that elasmobranchs may detect low frequency sound from 50-500 Hz (Myberg 2001; Hawkins & Popper 2012). As elasmobranchs lack a swim bladder it is thought that they have a relatively poor sensitivity to sound pressure and are mainly capable of detecting the particle motion component of sound (Casper et al. 2012). Given the expected low abundance of whale sharks in the BIA and the short duration of the survey (approximately 10 days) any impacts from the pre-drill site survey are considered to be Insignificant (F).

MODU and drilling noise

Based on the expected noise emissions associated with the MODU and drilling activities any sound emissions that are typically attributed to behavioral changes are expected to be limited to within a few hundred metres of the MODU, based on recorded drilling sound levels by McCauley (1998), Nedwell & Edwards (2004) and Greene (1986). Underwater noise modelling undertaken for the nearby Ichthys Project (INPEX 2010) to consider noise emissions (albeit for tanker offloading operations rather than drilling activities, reported that **low-frequency noise generated would abate to 120 dB re 1  $\mu$ Pa within 8 km of the source location** and the area receiving 130–140 dB re 1  $\mu$ Pa **was very small, i.e. less than 1 km in radius**. Therefore, drilling noise combined with associated vessel and MODU engines and thrusters may result in sound that is detectable above ambient noise levels over several kilometres from the MODU, although behavioural avoidance responses are more likely to occur within 1-2 km. As described above for pre-drill site survey, there are no known marine fauna BIAs or aggregation areas that would result in sedentary behaviour in WA-285-P and WA-343-P (as described in Section 4.9.4) that are expected to be affected by increased noise levels, and EPBC-listed species with the potential to be exposed are considered to be transient in nature with the ability to avoid the source in the open ocean of the permit areas. The outer extent of the green turtle internesting buffer at Browse Island slightly overlaps the far north eastern boundary of WA-285-P. However, the proposed location of the well in WA-285-P is in the south-west of the permit area (Figure 1-1), approximately 40 km from Browse Island at its closest point. In the unlikely event that behavioural changes did occur such as reorientation of an animal to the source of the sound, or avoidance responses (Southall et al. 2007), they are expected to be localised and temporary (Insignificant F). Gradual exposure to continuous noise sources, such as the MODU, are generally regarded as being less harmful and less likely to startle or stress marine fauna than rapid-onset impulsive noise sources (Hamernik et al. 1993; Hamernik et al. 2003; Southall et al. 2007).

Concurrent drilling operations may occur during the activity either with MODUs operating in both WA-285-P and WA-343-P and also the continued Ichthys drilling operations in the nearby in WA-50-L. However, the distance between any concurrently operating MODUs would be in the range of tens of km. As stated, MODU engines and thrusters may produce sound above ambient levels over several kilometres from the MODU, with behavioural avoidance responses possible within 1-2 km. Based on the distance between operating MODUs, any MODU and drilling noise is not expected to be detectable by receptors.

Vessel noise



Based on the expected noise emissions associated with the operation of vessels during the activity in WA-285-P and WA-343-P, any noise emissions (ranging from 108 to 182 dB re 1  $\mu$ Pa at 1 m) are not expected to result in PTS or TTS impacts to marine fauna. Although not directly relevant to vessel engine noise, modelling for the Ichthys Project (INPEX 2010) indicated that **low frequency noise generated from tanker offloading operations would abate to 120 dB re 1  $\mu$ Pa within 8 km of the source location** with the area receiving 130–140 dB re 1  $\mu$ Pa predicted to be less than 1 km in radius. The sound levels produced by smaller support vessels is expected to be less than the levels modelled for offloading tankers, but the sound may be audible to marine fauna over several kilometres, with the likelihood of behavioural impacts increasing in close proximity to the vessels. Gradual exposure to continuous noise sources, such as vessel engines, are generally regarded as being less harmful and less likely to startle or stress marine fauna than rapid-onset impulsive noise sources (Hamernik et al. 1993; Hamernik et al. 2003; Southall et al. 2007). As such, exposure that would result in significant alteration of behaviour is not expected and as such any impacts are considered to be Insignificant (F).

#### VSP noise

The VSP will emit high-intensity, impulsive sounds albeit on a temporary basis (approximately 18 hours) on one occasion in each permit area. Based upon the sound levels generated during the VSP (232 dB re 1  $\mu$ Pa@1 m) there is the potential for noise impacts to occur (PTS and TTS) in close proximity to the VSP source, with sound levels likely to be above ambient noise levels over several kilometres. Discharging the VSP source at full power may result in PTS for any cetaceans within a few metres of the source and TTS within a few tens of metres of the source. These ranges are comparable to ranges modelled for VSP by Matthews (2012) and reported in Salgado Kent et al. (2016). Prolonged exposure to multiple pulses of the VSP source could result in TTS within a few hundred metres of the source, but such exposures would occur after many minutes or hours and marine fauna are likely to move to avoid such sound exposures before TTS effects occur. In the unlikely event that TTS did occur to marine fauna, it would be limited to a few individuals and the effects will be temporary and recoverable. Salgado Kent et al. (2016) reported that seismic pulses, in the order of that used for the VSP in WA-285-P and WA-343-P, will reduce to levels < 120 dB re 1  $\mu$ Pa over approximately 5–10 km, therefore a range of behavioural responses may occur within this distance from the VSP source, although actual behavioural avoidance as a result of sound pressure levels greater than 160 dB re 1  $\mu$ Pa is more likely to occur within 1–2 km of the source.

Given other marine fauna have less sensitive hearing than cetaceans, the range of distances for which noise impacts may occur for other EPBC-listed species is expected to be less. Popper et al. (2014) reported that turtles are highly likely to exhibit a behavioural response when they are near an airgun (tens of metres), a moderate response if they encounter the source at intermediate ranges (hundreds of metres), and a low response if they are far (thousands of metres) from the airgun. Based on the NSF (2011) behavioural response threshold of 166 dB re 1  $\mu$ Pa, turtles may actively swim to avoid the VSP within 1–2 km. Potential significant behavioural impacts in fish arising from exposure to seismic pulses is likely to be limited to within tens to hundreds of metres, or within thousands of metres for the most sensitive fish species (Popper et al. 2014).

On this basis, it is possible that physical and behavioural impacts may occur from the VSP undertaken in the permit areas. Note, if concurrent drilling operations were to occur during the activity, no concurrent VSP operations would be undertaken. Potential behavioural responses for various groups of sound sensitive marine fauna are expected, at a worst case, to be limited to several kilometres from the source for the duration of the VSP. Marine fauna are transient and able to move away from noise sources and based on the distances to the nearest BIAs described above and in Section 4.9.4, any impacts are considered to be Insignificant (F) given the short duration and temporary/localised nature of any impacts with no displacement from foraging areas or other critical habitats.

The impact of sound on crustacean species similar to scampi, such as rock lobster, crabs and prawns has been studied with respect to commercial scale seismic surveys, which are significantly louder than VSP sources. Many studies (e.g. Christian et al. 2003; Payne et al. 2008) found no acute or chronic mortality or stress impacts. Research undertaken by Day et al. (2016) on rock lobsters in Australian waters also found no mortality impacts and no impacts to the eggs or hatched larvae of berried females exposed to seismic sound at very close range. Some sub-lethal stress and pathological impacts were observed in these studies although this occurred while the lobsters were captive in cages and subject to repeat exposures within close proximity to an airgun. Therefore, the effect of VSP on scampi is not expected to result in any mortality or impacts to their eggs or larvae. It is likely that scampi will move to avoid the immediate proximity of the well site during the VSP, although in all probability are likely to have moved away from the well site prior to this as a result of drilling vibration and settlement of drill cuttings. The impacts will be highly localised (e.g. hundreds of metres) and limited to the duration of VSP activities (approximately 18 hours on one occasion per permit area). Therefore, the effects of sound to scampi will be negligible and are considered to be Insignificant (F). Pelagic fish species such as tuna and billfish may also be present in WA-285-P and WA-343-P and the permit areas overlap the eastern boundary of the southern bluefin tuna spawning grounds that cover an extensive area of the Indian Ocean, but these species are highly mobile and belong to a group of fish with limited sensitivity to sound (Popper et al. 2014; Hawkins & Popper 2016; Carroll et al. 2017). Fish may avoid waters immediately surrounding VSP activities but no impacts to these stocks are expected. Therefore, disturbance to commercially important fish species may occur; however any impact would be localised to individuals and would not result in any detrimental impacts in stock levels, and as such any impacts are considered to be Insignificant (F).

Identify existing design and safeguards/controls measures

- Implementation of EPBC Regulations 2000 – Part 8 Division 8.1.
- Implement EPBC Act Policy Statement 2.1 - *Interaction between offshore seismic exploration and whales* during VSP operations modified to include marine turtles.
- Relevant personnel will receive an induction/training to inform them of the requirements of EPBC Regulations 2000 – Part 8, Division 8.1 (Regulation 8.05) in accordance with Table 9-3 (INPEX Australia Support Vessels Marine Fauna Awareness Training)
- No concurrent VSP operations to be undertaken.

Propose additional safeguards/control measures (ALARP Evaluation)

Hierarchy of control	Control measure	Used?	Justification
Elimination	Eliminate the use of MODU and vessels	No	The use of MODU/vessels to undertake the activity cannot be eliminated.
	Do not undertake VSP	No	VSP is required to obtain information on the reservoirs. The number of VSPs has been limited to one per well.
	Do not undertake site survey	No	The pre-drill site survey is required to enable the completion of the MODU anchoring study for safety and stability purposes.
Substitution	Undertake WA-285-P pre-drill site survey outside of interesting period at Browse Island November to March	No	The duration of the site survey is approximately 10 days. Given the proposed location of the well in WA-285-P is to the south-west of the permit area (approximately 40 km from Browse Island), the site survey will not be in proximity to or overlap the BIA. Therefore, it is not considered necessary to avoid conducting the site survey between November to March given the distance from the BIA and short duration.
	Undertake WA-285-P VSP outside of interesting period at Browse Island November to March	No	The duration of the VSP is approximately 18 hours. As described for the pre-drill site survey, the well in WA-285-P is to the south-west of the permit area (approximately 40 km from Browse Island) and does not overlap the BIA. Therefore, altering the timing of the VSP (outside of the November to March period) is not considered necessary given the distance from the BIA and the short duration.

	Alter the timing of the proposed activities to avoid the spawning period for southern bluefin tuna (September to April)	No	It is not practicable to restrict the timing of the proposed exploration drilling activities to only 4 months of the year (May to August). The exact start date for the activities will be influenced by the availability of the required MODU and associated vessels and potential weather delays. Given that the permit areas occupy a small portion of the available spawning grounds, any underwater noise impacts from planned activities are likely to be localised to individuals and would not result in any detrimental impacts in SBT stock levels. Particularly as tuna are highly mobile and belong to a group of fish with limited sensitivity to sound. Therefore, altering the timing of the proposed activities to avoid the SBT spawning period is considered to be grossly disproportionate to the cost of implementing this control.
Engineering	None identified	N/A	N/A
Procedures & administration	Implement EPBC Regulations 2000 - Part 8 Division 8.1 (Regulation 8.07 - aircraft) specifically maintaining separation distances for helicopters.	No	As described in Section 4.9.4, no BIAs for cetaceans overlap the permit areas. Given the distances to the nearest cetacean critical habitats and that helicopter approaches to the MODUs will not result in injury or hearing impairment implementing this control does not provide any significant environmental benefit.
Identify the likelihood			
<p>With the above-described controls in place the likelihood of impacts to marine fauna and fish species from noise emissions generated from the MODU, vessels and drilling operations in the permit areas are considered Unlikely (4).</p> <p>Transient marine fauna individuals (particularly green turtles at Browse Island) may be present in the internesting buffer that slightly overlaps WA-285-P. However, the location of the activity, in the south-west of WA-285-P, approximately 40 km from Browse Island at its closest point, does not overlap the BIA. Nevertheless, increased sound source levels and expected propagation distances associated with the pre-drill site survey and VSP noise emissions, impacts to marine fauna and fish species are considered Possible (3); however, this would be limited to individuals and the timeframes associated with these operations are considered to be of short duration. It is also expected that marine fauna would not persist in close proximity to the sound source long enough for impacts to occur.</p>			
Residual risk summary			
Based on a consequence of Insignificant (F) and a worst-case likelihood of Possible (3) the residual risk is Low (8).			

Consequence	Likelihood	Residual risk
Insignificant (F)	Possible (3)	Low (8)
Assess residual risk acceptability		
<p>Legislative requirements</p> <p>As required by law the EPBC Regulations 2000 – Part 8, Division 8.1 will be implemented during the activity. During VSP operations the EPBC Act Policy Statement 2.1 will also be implemented including the presence of a marine mammal observer (MMO) on board (Part B: additional management procedures).</p> <p>Relevant person consultation</p> <p>Licence holders from the southern bluefin tuna fishery and members of industry association, Tuna Australia, identified as relevant persons, raised a relevant matter with regard to potential impacts, on tuna spawning and recruitment from the proposed activity (Appendix B.6) noting that this was not specifically in relation to underwater noise. Upon receipt of this feedback, the consequence assessment presented in this table of the EP was revised and updated and a new control considered in the ALARP justification.</p> <p>Conservation management plans / threat abatement plans</p> <p>Several conservation management plans have been considered in the development of this EP (refer Appendix A.2). Anthropogenic noise from seismic surveys (e.g. VSP) has been identified as a threat to pygmy blue whales in the Conservation Management Plan for the Blue Whale 2015-2025 (DoE 2015; DAWE 2021). Noise interference has also been identified as a threat to marine turtles (DEE 2017a). The above listed controls to be adopted during the activity are in alignment with the actions identified in the various conservation management documents.</p> <p>ALARP summary</p> <p>Although the level of environmental risk is assessed as Low, a detailed ALARP evaluation was undertaken to determine what additional control measures could be implemented to reduce the level of impacts and risks. No additional controls, beyond those identified during the detailed ALARP assessment can reasonably be implemented to further reduce the risk of impact.</p> <p>Acceptability summary</p> <p>Based on the above assessment, the proposed controls are expected to effectively reduce the risk of impacts to acceptable levels because:</p> <ul style="list-style-type: none"> <li>• the activity demonstrates compliance with legislative requirements/industry standards</li> <li>• the activity takes into account relevant person feedback</li> <li>• the activity is managed in a manner that is consistent with the intent of conservation management documents</li> <li>• the activity does not compromise the relevant principles of ESD</li> </ul>		

<ul style="list-style-type: none"> <li>the predicted level of impact does not exceed the defined acceptable level in that the environmental risk has been assessed as <b>“low”</b>, the consequence does not exceed <b>“C – significant”</b> and the risk has been reduced to <b>ALARP</b>.</li> </ul>		
Environmental performance outcomes	Environmental performance standards	Measurement criteria
Undertake site survey and drilling activities in a manner that prevents injury to marine fauna resulting from sound emissions.	<p>Vessel contractors comply with relevant requirements of the EPBC Regulations 2000 – Part 8 Division 8.1 Interacting with cetaceans, within the 500m exclusion zone including:</p> <ul style="list-style-type: none"> <li>Support vessels will not travel faster than 6 knots within 300 m of a cetacean or turtle (caution zone) and minimise noise.</li> <li>Support vessels will not approach closer than 50 m to a dolphin or turtle and/or 100 m for a whale (with the exception of bow riding).</li> </ul>	Records of breaches of vessel - cetacean interaction requirements outlined in the EBPC Regulations 2000 reported.
	<p>INPEX will verify VSP operations are conducted in accordance with EPBC Act Policy Statement 2.1 – Interaction between offshore seismic exploration and whales (modified to include marine turtles) which includes:</p> <ul style="list-style-type: none"> <li>Implement 30-minute pre-start observations to the extent of the observation zone (as defined in Policy Statement 2.1), only start if no whales or turtles are sighted within 3 km*.</li> <li>Implement soft-start procedures, including a gradual ramp up of acoustic source to full power over 20 minutes only if no whales are sighted within the shutdown zone during the pre-start observations.</li> <li>While the VSP is operating, both during soft-start and operations: visual observations of the observation zone are maintained; if whales or turtles are sighted – acoustic source placed on standby; if whales or turtles are sighted in the shut-down zone (within 1 km of source)– the acoustic source will be shut down.</li> <li>A marine mammal observer (MMO) will be on board during VSP operations.</li> </ul>	<p>Records of pre-start observations prior to time of commencement; and soft-start time of commencement and durations.</p> <p>Records of sound source on standby or VSP shutdown if whales are observed.</p> <p>Completed MMO records during VSP operations.</p>

	* Noting that marine turtles may not be visible at distances of up to 3 km.	
	No concurrent VSP operations will be undertaken during the drilling campaign.	VSP records.

7.4 Biodiversity and conservation protection

7.4.1 Introduction of invasive marine species

Table 7-12: Impact and evaluation – introduction of IMS

Identify hazards and threats	
<p>IMS are non-indigenous marine plants or animals that have been introduced into a region beyond their natural range and have the ability to survive, reproduce and establish founder populations. IMS are widely recognised as one of the most significant threats to marine ecosystems worldwide. Shallow coastal marine environments in particular, are thought to be amongst the most heavily invaded ecosystems, which largely reflects the accidental transport of IMS by international shipping to marinas and ports where the preferred artificial hard structures are commonly found.</p> <p>The introduction and establishment of IMS into the marine environment may result in impacts to benthic communities and associated receptors dependent on these including fishing, due to changes to the structure of benthic habitats and native marine organisms through predation and/or competition for resources, leading to a change in ecological function. Once IMS establish, spread and become abundant in coastal waters some species can have major ecological, economic, human health and social/cultural consequences (Carlton 1996, 2001; Pimental et al. 2000; Hewitt et al. 2011).</p> <p>There are several pathways for the introduction and spread of IMS of concern associated with the petroleum activity in WA-285-P and WA-343-P including the mobilisation of vessels and MODUs from international and domestic waters, domestic conveyances associated with support vessels during planned operations and domestic conveyances during unplanned events, such as vessels seeking shelter in the lee of offshore islands during adverse sea conditions or cyclone events. If unmanaged, these may act as a pathway through the discharge of high-risk ballast water containing IMS and/or IMS present on submerged vessel hulls in the vicinity of sensitive, unaffected environments (with no previously reported presence of IMS).</p>	
Potential consequence	Severity
<p>The particular values and sensitivities with the potential to be impacted by the introduction of IMS are:</p> <ul style="list-style-type: none"> <li>• benthic communities – associated with KEFs, benthic primary producer habitat (BPPH) and shallow water coastal environments and marine parks, the closest of which is Browse Island (located approximately 19 km south-east of WA-285-P and 68 km south of WA-343-P at the closest points) other offshore islands and shoals with sensitive benthic habitats, where vessels may seek shelter during adverse sea conditions or cyclone events have the potential to be affected.</li> <li>• commercial, traditional and recreational fishing/aquaculture.</li> </ul>	<p>Significant (C)</p>



The introduction and subsequent establishment of IMS could result in changes to the structure of benthic communities leading to a change in ecological function due to predation of native marine organisms and/or competition for resources. Once IMS establish, spread and become abundant in coastal waters some species can have major ecological, economic, human health and social/cultural consequences (Carlton 1996, 2001; Pimental et al. 2000; Hewitt et al. 2011).

Benthic communities, shallow water coastal environments in WA marine parks and reserves (the closest of which is Browse Island) and fisheries (commercial (including aquaculture)/ traditional/recreational) all have the potential to be impacted by IMS. Shallow water, coastal marine environments are susceptible to the establishment of invasive populations, with most IMS associated with artificial substrates in disturbed shallow water environments such as ports and harbours (e.g. Glasby et al. 2007; Dafforn et al. 2009a, 2009b). Aside from ports and harbours, other shallow water, pristine environments also at risk include offshore island and shoals such as those found in the PEZ in WA marine parks and reserves as presented in Section 4.4. Many of these marine parks and reserves contain sensitive benthic habitats with a potential to be impacted by invasive populations.

In order for an IMS to pose a biosecurity risk once present at a recipient location, viable IMS propagules and/or individuals must be able to transfer from the colonised area (e.g. a vessel hull), survive in the surrounding environment, find a suitable habitat, and establish a self-sustaining population.

MODU and vessel operations are a mechanism for such transfer of IMS propagules either through the uptake and discharge of high-risk ballast water containing IMS and/or via the presence of IMS within biofouling communities on hulls or submerged equipment. IMS propagules may also be transferred via natural dispersion. Natural dispersal mechanisms could involve a mobile life-history stage (such as actively swimming adults or larval stages) with sufficient swimming capacity and/or larval durations to directly reach suitable habitats in coastal waters. Natural dispersal from offshore locations for IMS with shorter pelagic dispersal capabilities to coastal areas is also theoretically possible via intermediate steps (stepping stone dispersal), where intermediate populations establish in suitable habitats closer inshore, and subsequent generations then spread towards coastal regions.

With consideration of the habitat preferences of IMS (shallow water environments), the closest shallow water habitat to the either permit area is Browse Island. However, it is neither disturbed nor contains artificial structures that IMS are reported to prefer.

Support vessels transiting between the permit areas and Broome port have the potential to act as vectors for the transfer of IMS propagules to sensitive benthic habitats in the PEZ and this may result in medium term impacts to benthic communities with a consequence rating of Significant (C).

The transfer of IMS propagules via anthropogenic dispersal mechanisms and/or stepping-stone dispersal from MODUs or vessels colonised with IMS, has the potential to affect distant commercial, traditional and recreational fishing including aquaculture. Of particular significance is aquaculture located in shallow coastal areas of WA and NT waters which are potentially susceptible to IMS. The successful introduction of IMS in these areas may impact aquaculture resulting in a loss of revenue. Other fishing activities that may be impacted include traditional Aboriginal fishing known to occur at several IPAs located along the Kimberley coastline (Section 4.11.5) and recreational fishing that is known to occur around Broome, Wyndham and Darwin (Section 4.12.1). This may result in regional community disruption with a significant impact on economic or recreational values with a consequence rating of Significant (C).

In the event an IMS is translocated into WA-285-P and/or WA-343-P, then transfers and subsequently establishes a self-sustaining population, values and sensitivities with the potential to be exposed include regionally important areas of high diversity, such as shoals, banks and coral reefs. It is considered that the establishment of an IMS in WA/NT waters has the potential to result in a medium to large scale event with a medium-term impact on the environment, also potentially resulting in regional community disruption with significant impact on economic or recreational values with a consequence rating of Significant (C).

Identify existing design and safeguards/controls measures

- Vessels have an antifouling coating applied that is in accordance with the prescriptions of the International Convention on the Control of Harmful Anti-fouling systems on ships, 2001, and the *Protection of the Sea (Harmful Antifouling Systems) Act 2006* (Cwlth).
- MODU and vessels will have an approved ballast water management plan and valid ballast water management certificate, unless an exemption applies or is obtained.
- MODUS and vessels operating within Australian seas will manage ballast water discharge using one of the following approved methods of management (DAWE 2020):
  - an approved ballast water management system
  - ballast water exchange conducted in an acceptable area \*
  - use of low risk ballast water (e.g. fresh potable water, water taken up on the high seas, water taken up and discharged within the same place)
  - retention of high-risk ballast water on board the vessel
  - discharge to an approved ballast water reception facility.

\* Acceptable area is as defined in the Biosecurity (Ballast Water and Sediment) Determination 2019. For high-risk ballast water an acceptable area for ballast water exchange is defined as (DAWE 2020):

- Vessels servicing an offshore facility/MODU: at least 500 m from the facility, and no closer than 12 nm from the nearest land

- All other vessel movements: at least 12 nm from the nearest land and in water at least 50 m deep; not within 12 nm of the Great Barrier Reef or Ningaloo Reef ballast water exchange exclusion areas.
- All MODUs and vessels that use ballast water will comply with the Australian Ballast Water Requirements Version 8 (DAWE 2020) enforceable under the *Biosecurity Act 2015*.
- Complete a biofouling risk assessment (including immersible equipment) for vessels mobilised domestically, and implement mitigation measures commensurate to the risk, as appropriate to ensure the mobilisation of the vessel poses a low risk of introducing IMS in accordance with Figure 9-5.
- Vessel masters will be advised to reduce time spent near high value sensitive areas such as offshore island and shoals and no ballast water to be exchanged in order to limit the potential spread of IMS.

Propose additional safeguards/control measures (ALARP Evaluation)

Hierarchy of control	Control measure	Used?	Justification
Elimination	Eliminate vessel use to avoid the spread of IMS	No	Vessels are the only form of transport that can supply and support the MODU that is practicable and cost efficient.
Substitution	Only use a local MODU already operating in Australian waters.	No	Although using only local vessels is possible for the activity, using only a local MODU would result in delays when sourcing an appropriate available MODU. The potential cost and time needed to source a capable MODU locally is disproportionate to the minor environmental gain potentially achieved.  Additional to this, there are known locations within Australia which harbour IMS (Section 4.10) and could potentially act as a source for the further spread of IMS within Australian regions. Therefore, substituting to the use of a locally available MODU will not provide an environmental benefit.
Engineering	MODU has an anti-fouling coating to all submerged areas.	No	Some MODUs currently on the market may have anti-fouling coatings applied to all submerged areas and others may only have it applied to intakes and seachests.

			<p>Anti-fouling coatings vary in their efficacy and utilise a range of technologies to limit the ability of biofouling to attach to the surface. Some anti-fouling coatings include biocidal layers, while others rely upon creating surfaces that reduce the likelihood of organisms to freely attach. Despite the differences in types of anti-fouling coatings and the subsequent variations in performance and efficacy, there is always an inherent risk that niche areas below the water line may harbor biofouling communities and IMS, even when antifoul coatings are present.</p> <p>MODU availability must align with the schedule and other commercial considerations therefore, to limit MODU selection to only those that have anti-fouling coatings may add some value, but it will not eliminate the risk completely.</p> <p>Therefore, INPEX will engage an independent third-party to undertake a biofouling risk assessment for the MODU (described in procedural controls row below) and will implement any controls required as the outcome of the biofouling risk assessment rather than rely on a MODU being available that has an anti-fouling coating that may not necessarily be an effective control.</p>
<p>Procedures &amp; administration</p>	<p>Complete a biofouling risk assessment (including immersible equipment) for vessels/MODU mobilised from international waters, and implement mitigation measures commensurate to the risk, as appropriate to ensure the mobilisation of the vessel poses a low risk of introducing IMS.</p>	<p>Yes</p>	<p>The completion of a biofouling risk assessment and the implementation of associated biofouling reduction and management measures reduce the likelihood of IMS translocation and subsequent potential for transfer and establishment. This approach is in accordance with the Biosecurity Amendment (Biofouling Management) Regulations 2021 and the Australian biofouling management requirements (version 1) (DAWE 2022y).</p> <p>A biofouling risk assessment is a desktop-based evaluation to determine the likelihood, and hence theoretical risk of a vessel acting as a vector for the transfer of IMS. It does not attempt to identify whether or not a vessel is actually carrying a pest species, but rather ranks vessels on a relative scale of High, Uncertain or Low/Acceptable risk, to identify which vessels may require further detailed investigation and/or management actions to reduce potential risk.</p>

			<p>The assessment, undertaken by an independent third-party IMS expert on behalf of INPEX, relies on the provision of accurate information from the vessel operator, which may include, but is not limited to, the following:</p> <ul style="list-style-type: none"> <li>• vessel specifications: vessel name, type, size and Flag State, etc.</li> <li>• movements: port of origin, voyage history, destination, transport method, evidence of recent dry-docking and/or inspection, etc.</li> <li>• anti-fouling coating: type (i.e. biocidal/non-biocidal), age, service life, application area, record of Antifouling Systems Certificate, etc.</li> <li>• inspection/cleaning: inspection and cleaning history including any relevant independent biofouling inspection reports, etc.</li> <li>• seawater systems: marine growth prevention systems present and functioning, maintenance records, evidence of chemically or manually cleaned seawater systems including last treatment date and chemicals used etc.</li> <li>• duration of stay: at overseas or interstate locations, and duration in WA coastal waters etc.</li> </ul> <p>Outcomes of the biofouling risk assessment may identify the need to implement mitigation measures such as limitations of time spent in coastal waters/or alongside and managing interactions with supply vessels, through to inspection and cleaning of hulls and submerged areas.</p>
	<p>MODU/vessels will have biofouling management plans and record book.</p>	<p>Yes</p>	<p>A biofouling management plan provides operational guidance for the planning and actions required to manage vessel biofouling, in addition to outlining measures for the control and management of vessel biofouling in accordance with the Biosecurity Amendment (Biofouling Management) Regulations 2021 and the Australian biofouling management requirements (version 1) (DAWE 2022y).</p>
<p>Identify the likelihood</p>			

The likelihood of an IMS becoming successfully established at a recipient location depends on a range of factors including physical characteristics of the environment falling within the tolerance ranges of the IMS (i.e. salinity, temperature, nutrient availability, etc.), and the biological characteristics of the species and the natural environment (i.e. reproductive properties, presence of appropriate prey species, predation pressure, etc.). This potential is known to be dependent on a range of factors including propagule pressure, density of the colonised population, and a range of biotic interactions and abiotic factors specific to the local marine environment.

For an IMS to establish a self-sustaining reproductive population in a recipient region, it must successfully pass through a series of stages along an invasion pathway, which include a range of selective filters. Selective filters affect the total number of organisms that can survive and successfully transition to the next stage of the invasion pathway. Offshore selective filters in the invasion pathway are likely to be more significant than for coastal environments, given there is little availability of artificial surfaces or suitable settlement habitats for propagules, and greater dilution of propagule plumes. As a result, in offshore oceanic environments propagule plumes from infrastructure colonised by IMS are likely to be highly dispersed with low densities of propagules present in the water column. In turn, if propagules are able to survive the extended periods necessary for them to be transferred to coastal waters, this is still likely to result in low densities of propagules encountering suitable habitat in shallow coastal environments. As a result, propagule pressure will be low and therefore establishment potential constrained. It is now widely accepted that **'propagule pressure' (or the number of individuals introduced), is a primary determinant of establishment success for introduced populations** (Lockwood et al. 2005, Simberloff 2009). Propagule pressure is also important for the post-establishment success of IMS populations. As propagule pressure increases, it becomes more likely that the founder population will survive or has sufficient genetic variation to adapt to local conditions and establish a self-sustaining population (Lejeusne et al. 2014; Roman & Darling 2007) thereby becoming 'introduced'. **Many propagules may be released but never survive to join local populations.**

Marine pests known to be present in WA and NT waters (including the ports of Broome, Dampier and Darwin) and are described in Section 4.10 and 4.12.3.

MODUs and vessels that may be mobilised from international waters or domestically are not considered to provide a likely source for the introduction and establishment of IMS. This is due to a number of factors including the lack of man-made infrastructure e.g. jetties/wharves in the deep waters of the permit areas where the activity will occur, and the controls and procedures in place to manage ballast water exchange and biofouling risks. As such, there is a low potential for biofouling to occur and act as a potential inoculum for the establishment and subsequent spread of IMS. Adherence to the Australian ballast water management requirements including the use of an approved ballast water management method also reduces the potential for the spread of IMS (Remote 6).

During drilling, support vessels will use Broome Port as the main supply base however they may also use Darwin or Dampier ports. The presence of jetties and wharves in ports, provides substrate for IMS, meaning that the ports could act as a source of IMS inoculum. However, resupply is typically undertaken within a relatively short timeframe (approximately 48 hours) therefore the potential for vessels to become colonised by biofouling communities is reduced. Guidance from WA DPIRD (Vessel Check Biofouling Risk Assessment Tool) acknowledges that the attachment **of biofouling may occur in as short a time frame as 24 hours; however, as a 'rule of thumb', 7 days is considered to provide** a pragmatic balance between logistical factors versus the risk of a vessel being contaminated with an IMS. With the described controls in place, the potential spread of IMS via support vessels during the activity is considered to be Remote (6).

Vessel masters will select appropriate transit routes between the WA/NT mainland and the permit areas based on sea state conditions. During adverse sea conditions or cyclone events, due to safety reasons, vessels may seek shelter in protected areas. Typically, this would be on the leeward side of offshore islands or shoals, with vessels remaining on DP in water depths of >100 m. Many offshore islands and shoals contain sensitive, pristine benthic habitats with respect to IMS. Therefore, access to these habitats by vessels is not permitted under normal circumstances. However, sheltering during cyclone events for safety reasons, may result in these habitats being exposed to vessels that have been alongside known sources of IMS (e.g. mainland ports). Water depths where vessels would seek shelter will be approximately 100 to 150 m, as this affords the vessel the greatest protection from oncoming swells. Such deep water, sheltering locations are unlikely to provide optimal conditions for the recruitment of IMS based on a lack of hard substrate (either natural or artificial). Additionally, an advantage of sheltering on the leeward side of an island/shoal is that based on the prevailing current, the vessel will likely be downwind and therefore potential IMS propagules released from any biofouling assemblages on vessel hulls (ballast water exchange is not planned during these times) would be released downstream of the islands/shoals. Therefore, any propagules will be carried in the current away from sensitive benthic habitats.

During sheltering events, considered infrequent, the vessel controls in place for planned operations are considered to be sufficient to manage potential risks. Typically, during adverse sea conditions or cyclonic events, vessels may spend approximately 12 to 48 hours in sheltered locations and therefore it is considered to be of relatively short duration and an infrequent activity. With described controls in place, the potential for colonisation of vessels is not considered to be likely and hence the potential for spread of IMS of concern via domestic conveyances during unplanned operations is considered to be Remote (6).

Residual risk summary

Based on a consequence of Significant (C) and a worst-case likelihood of Remote (6) the residual risk is Moderate (8).

Consequence	Likelihood	Residual risk
Significant (C)	Remote (6)	Moderate (8)

Assess residual risk acceptability

Legislative requirements

MODU and vessel ballast water will be managed in accordance with the intent of the Australian Ballast Water Requirements Version 8 (DAWE 2020) and the *Biosecurity Act 2015*. Biofouling will be managed through vessel and equipment risk assessments and mitigation measures, in accordance with the Biosecurity Amendment (Biofouling Management) Regulations 2021 and the Australian biofouling management requirements (version 1) (DAWE 2022y). All vessels that use ballast water are required to meet the Regulation D2 discharge standard of the International Convention for **the Control and Management of Ships' Ballast Water and Sediments (the Convention) if they were constructed after 2017 or at their next renewal survey after September 2019**. All ships must meet the D2 standard by 8th September 2024 and this will lead to an ongoing reduction in potential **risk from ballast water discharges over the life of this EP. The control measures described are consistent with NOPSEMA's Information Paper: Reducing marine pest biosecurity risks through good practice and biofouling management, IP1899 (NOPSEMA 2022d).**

Relevant person consultation

No relevant person concerns have been raised regarding potential impacts and risks from IMS.

Conservation management plans / threat abatement plans

Several conservation management plans have been considered in the development of this EP (refer Appendix A.2). IMS have been identified as a threat in many conservation management plans, with actions focusing on the prevention of their introduction. The control measures described are consistent with the actions described in the conservation management documentation.

ALARP summary

The level of environmental risk is assessed as Moderate, therefore a detailed ALARP evaluation was undertaken to determine what additional control measures could be implemented to reduce the level of impacts and risks. No additional controls, beyond those identified during the detailed ALARP assessment can reasonably be implemented to further reduce the risk of impact.

Acceptability summary

Based on the above assessment, the proposed controls are expected to effectively reduce the risk of impacts to acceptable levels because:

- the activity demonstrates compliance with legislative requirements/industry standards
- the activity takes into account relevant person feedback
- the activity is managed in a manner that is consistent with the intent of conservation management documents
- the activity does not compromise the relevant principles of ESD
- the predicted level of impact **does not exceed the defined acceptable level in that the environmental risk has been assessed as “moderate”, the consequence does not exceed “C – significant” and the risk has been reduced to ALARP.**

Environmental performance outcomes	Environmental performance standards	Measurement criteria
No establishment of IMS of concern in the Commonwealth Marine Area or coastal waters via ballast water or biofouling attributable to the petroleum activity.	Support vessels (of appropriate class) will have an antifouling coating applied in accordance with the prescriptions of the International Convention on the Control of Harmful Anti-fouling Systems on Ships (2001) and the <i>Protection of the Sea (Harmful Antifouling Systems) Act 2006</i> (Cwlth).	Support vessels (of appropriate class) have a current International Anti-fouling Systems certificate or a Declaration on Anti-fouling Systems.



	<p>MODUs and vessels operating within Australian seas will manage ballast water discharge using one of the following approved methods of management (DAWE 2020) including:</p> <ul style="list-style-type: none"> <li>• an approved ballast water management system</li> <li>• exchange of ballast water exchange conducted in an acceptable area</li> <li>• use of low risk ballast water (e.g. fresh potable water, water taken up on the high seas, water taken up and discharged within the same place)</li> <li>• retention of high-risk ballast water on board the vessel</li> <li>• discharge to an approved ballast water reception facility.</li> </ul>	<p>MODUs/vessels pre-mobilisation inspection and annual verification audit reports confirm through ballast water records that an approved ballast water management option has been used.</p>
	<p>MODUs/vessels that use ballast water will comply with the Australian Ballast Water Requirements Version 8 (DAWE 2020)</p>	<p>Records confirm MODUs/vessels meet Australian Ballast Water Requirements Version 8.</p>
	<p>All MODUs/vessels will have:</p> <ul style="list-style-type: none"> <li>• Approved MODUs/vessel-specific ballast water management plan maintained, or record of DAWE issued exemption (if not automatic exemption) on board.</li> <li>• Valid ballast water management certificate or record of DAWE issued exemption (if not an automatic exemption) on board.</li> </ul>	<p>All MODUs/vessels will have:</p> <ul style="list-style-type: none"> <li>• an approved ballast water management plan, unless an exemption applies or is obtained</li> <li>• a valid ballast water management certificate, unless an exemption applies or is obtained.</li> </ul>

	<p>A biofouling risk assessment will be completed by an independent IMS expert for MODUs and all support vessels, including immersible equipment, prior to mobilisation from international waters. Where required, mitigation measures commensurate to the risk will be implemented to ensure the vessel mobilisation poses a low risk of introducing IMS.</p>	<p>MODUs/vessel-specific biofouling risk assessment and any records of mitigation measures implemented confirming the MODU/vessel presents a low risk.</p>
	<p>Domestic biofouling risk assessment for MODU/vessels mobilised from other regions in Australia, and implement mitigation measures commensurate to the risk, as appropriate to ensure the mobilisation of the vessel poses a low risk of introducing IMS in accordance with Figure 9-5.</p>	<p>Domestic biofouling risk assessment.</p>
	<p>MODU and all support vessels will have a biofouling management plan in accordance with the Biosecurity Amendment (Biofouling Management) Regulations 2021 and the Australian biofouling management requirements (version 1) (DAWE 2022y).</p>	<p>Biofouling management records are available in the biofouling record book.</p>
	<p>Vessel masters notified to reduce time spent near high value areas such as offshore islands and shoals and no ballast water exchange to be undertaken to limit the potential spread of IMS.</p>	<p>Records of adverse weather planning communications including environmental assessment of vessel movements.</p>

7.4.2 Interaction with marine fauna

Table 7-13: Impact and risk evaluation – Physical presence of vessels and interaction with marine fauna (vessel strike)

Identify hazards and threats	
The physical presence and use of vessels in the permit areas has the potential to result in collision (vessel strike) with marine fauna which may result in death or injury to individuals. Increased vessel traffic may result in increased turtle/vessel interactions and disruption to interesting or foraging behaviours.	
Potential consequence	Severity
<p>The particular values and sensitivities with the potential to be impacted by vessel strike are:</p> <ul style="list-style-type: none"> <li>• EPBC-listed species.</li> </ul> <p>Vessels undertaking the pre-drill site survey and vessels supporting the exploration drilling activities in WA-285-P and WA-343-P have the potential to interact with EPBC-listed species; specifically, marine mammals, whale sharks and turtles. This may result in injury or death of marine fauna from a vessel strike. Collisions between vessels and cetaceans occur more frequently where high vessel traffic and cetacean habitat overlap (Dolman &amp; Williams Grey 2006). Vessel speed has been demonstrated as a key factor in collisions with marine fauna such as cetaceans and turtles, and it is reported that there is a higher likelihood of injury or mortality from vessel strikes on marine mammals when vessel speeds are greater than 14 knots (Laist et al. 2001; Vanderlaan &amp; Taggart 2007).</p> <p>The potential for vessel strike applies to all marine mammals, whale sharks and turtle species; however, humpback whales are considered to have a higher potential likelihood due to their extended surface time. The potential for collision during the petroleum activity is reduced as the permit areas are located hundreds of kilometres offshore, away from critical habitats such as humpback BIA areas (migration and calving) as shown in Figure 4-4 (located approximately 100 km south-east from WA-285-P and 175 km east from WA-343-P at its closest point). The reaction of whales to approaching ships is reported to be quite variable. Dolman and Williams Grey (2006) indicate that some cetacean species, such as humpback whales, can detect and change course to avoid a vessel.</p>	Minor (E)

The blue whale has a foraging BIA at Scott Reef and a migratory corridor approximately 75 km to the north-west of WA-285-P and approximately 40 km west of WA-343-P (Figure 4-4). The blue whale is subject to a Conservation Management Plan (Appendix A.2). The Conservation Management Plan identifies that, since 2006, there have been two records of likely ship strikes of blue whales in Australia. In 2009 and 2010, there were blue whale strandings in Victoria, near the Bonney Upwelling with suspected ship strike injuries visible. Where blue whales are feeding at or near the surface, they are more susceptible to vessel strike. However, the open ocean environment allows for whales to invoke avoidance behaviour in threatening situations. The Blue Whale Conservation Management Plan highlights that minimising vessel collision is one of the top four priorities and requires assessment of vessel strike on blue whales, assures that incidents are reported in the National Ship Strike Database, and that control measures proposed will align with these priorities.

Whale sharks do not breach the surface as cetaceans do; however, they are known to spend considerable time close to the surface increasing their vulnerability to vessel strike (DEE 2017c). Whale sharks reportedly spend 40% of their time in the upper 15 m of the water column which leaves them vulnerable to collision with smaller vessels as well as larger commercial vessels that have drafts that extend greater than 20 m below the surface (Wilson et al. 2006, Gleiss et al. 2013). The foraging area for whale sharks (BIA) is located approximately 5 km from WA-285-P and approximately 10 km from WA-343-P at its closest point. Whale sharks are also subject to a Conservation Advice (Appendix A.2), which notes that the threat to the recovery of the species includes strikes from vessels. While the Conservation Advice does not specify any particular measures for whale shark strike reporting, a control measure requiring compliance with the Whale Shark Wildlife Management Program no. 57 (DPaW 2013b) addresses avoidance of whale sharks and, as such, is considered to align with the Conservation Advice for whale sharks.

Turtles transiting the region are also at risk from vessel strike when they periodically return to the surface to breathe and rest. Only a small portion of their time is spent at the surface, with routine dive times lasting anywhere between 15 and 20 minutes nearly every hour. The presence of vessels has the potential to alter the behaviour of individual turtles. Some turtles have been shown to be visually attracted to vessels, while others show strong avoidance behaviour (Milton et al. 2003). Within the PEZ, several marine turtle BIAs are known to occur (Figure 4-6), and WA-285-P slightly overlaps the outer boundary of the Browse Island 20 km internesting buffer, with Browse Island itself located 19 km from WA-285-P at its closest point. However, the location of the activity within WA-285-P (Figure 1-1) and hence the majority of vessel traffic will be in the south-west of the permit area, approximately 40 km from Browse Island at its closest point.

Following publication of the Recovery Plan for Marine Turtles in Australia (DEE 2017a), habitats critical for the survival of the **genetically distinct, 'Scott Reef – Browse Island' green turtle population has been identified**. The internesting buffer at Browse Island provides critical habitat for green turtles between November and March each year. During internesting periods studies have shown that green turtles tend to stay relatively close to their nesting beach, approximately 7 km as reported by Pendoley (2005) and generally within 10 km (Waayers et al. 2011). Therefore, any impacts are expected to be localised and of minor consequence at the population level for these mobile and broad-ranging species.

<p>Given the expansive open ocean environment of the permit areas, the potential for the displacement of cetaceans by vessel activities is considered to be low. Additionally, there are no recognised feeding or breeding grounds for cetaceans within the permit areas. While there is potential for a small number of individual marine fauna (particularly green turtles present in the internesting buffer at Browse Island) to be impacted by vessels associated with the activity, any potential vessel strike to marine fauna is likely to be limited to isolated incidents. As reported by the DEE (2017a), although the outcome can be fatal for individual turtles, vessel strike (as a standalone threat) has not been shown to cause stock level declines. In the event of the death of an individual whale or turtle, it would not be expected to have a significant effect at the population level (Minor E).</p> <p>With reference to the Recovery Plan for Marine Turtles in Australia (DEE 2017a) based on the long-life span and highly dispersed life history requirements of marine turtles it is acknowledged that they may be subject to multiple threats acting simultaneously across their entire life cycle, such as increases in background light and noise levels. In considering cumulative impacts of threats on small or vulnerable stocks of marine turtles, it is likely that vessel strike may act as contributor to a stock level decline.</p>			
<p>Identify existing design and safeguards/controls measures</p>			
<ul style="list-style-type: none"> <li>• Implementation of EPBC Regulations 2000 – Part 8 Division 8.1 (Regulation 8.05)</li> <li>• Vessel speed restrictions and separation distances maintained for whale sharks</li> <li>• Vessel crew will receive an induction/training to inform them of the requirements of EPBC Regulations 2000 – Part 8, Division 8.1 (Regulation 8.05) in accordance with Table 9-3 (INPEX Australia Support Vessels Marine Fauna Awareness Training).</li> </ul>			
<p>Propose additional safeguards/control measures (ALARP Evaluation)</p>			
Hierarchy of control	Control measure	Used?	Justification
Elimination	Eliminate the use of vessels	No	Vessels are the only form of transport that can undertake the pre-drill site survey and provide the required level of supply and support to the MODU, that is practicable and cost efficient.
	Reduce the frequency of supply vessel visits to MODUs	No	Reducing the number of vessel supply trips would decrease the potential for vessel interactions with marine fauna; however, the frequency of re-supply by support vessels is already optimised to be as low as practicable and cannot be further reduced.

	Prevention of vessels entering interesting area during November to March to avoid disturbance to nesting green turtles at Browse Island	No	<p>The introduction of an exclusion zone within the Browse Island interesting BIA buffer (20 km) is not considered to be warranted given support vessels transiting between the MODU in WA-285-P or WA-343-P and Darwin/Broome/Dampier typically remain 12 nm (approximately 22 km) from Browse Island. However, exact vessel routes will be influenced by sea state conditions and under adverse sea conditions (e.g. cyclone sheltering) vessels may enter the BIA but would remain on DP in water depths of &gt;100 m.</p> <p>Given the short duration (12-48 hours) of any sheltering events and that research has indicated that interesting green turtles generally stay within 10 km of their nesting beaches, the need for a total exclusion zone (during nesting season) from the 20 km buffer is not considered necessary.</p>
Substitution	Use smaller vessels for resupply of the MODU	No	Using smaller vessels, travelling at slower speeds may decrease the potential to harm or fatally injure marine fauna in the event that a vessel strike occurred; however, smaller vessels would require more frequent journeys or may have space and weight limitations for equipment required on the MODU.
Engineering	None identified	N/A	N/A
Procedures & administration	Vessel speed restrictions or separation distances maintained for turtles	No	<p>It is reported that turtles generally stay close to their nesting beaches during the interesting period. At WA-343-P the closest habitat is at Browse Island, located 68 km away, green turtles are not expected to be present in WA-343-P. WA-285-P slightly overlaps the outer boundary of the 20 km interesting buffer at Browse Island, with Browse Island located 19 km from WA-285-P at its closest point. However, within WA-285-P the activity will occur in the south-west portion of the permit area approximately 40 km from Browse Island at its closest point (Figure 1-1).</p> <p>Turtles reportedly spend a small portion of their time at the surface, this makes turtle observations by crew from the bridge of a vessel very difficult given that turtles are considerably smaller than whales or whale sharks. On this basis, reducing vessel speeds and maintaining separation distances is not considered to be an effective control and will not be implemented.</p>

	Dedicated MMO on vessels	No	<p>The use of dedicated MMOs onboard vessels may improve the ability to identify marine fauna at risk of collision. However, this is not considered to be practicable given POB limits on vessels and through implementation of the environmental awareness program for crew (Table 9-2) is not considered to provide additional environmental benefit for the increase in cost associated with implementing this control.</p> <p>The whale shark foraging BIA is located approximately 5 km from WA-285-P and approximately 10 km from WA-343-P at its closest point. However, based on the levels of whale shark abundance observed in numerous studies (as described in Section 4.9.4), the likelihood of whale shark presence within this BIA is considered very low, with no specific seasonal pattern of migration.</p>
Identify the likelihood			
<p>Collisions with large vessels often go unnoticed and/or unreported (Cates et al. 2017). A preliminary examination of vessel collision reports between 1840 and 2015 was undertaken by Peel et al. in 2016, referenced in the National Strategy for Reducing Vessel Strike on Cetaceans and other Marine Fauna (DEE 2017c). Peel et al. (2016) identified 109 records of ship strike in Australian waters predominantly involving humpback whales (47%). The records showed that the majority of events were in Queensland, with 10 events recorded in WA waters between 1995 and 2015. This suggests that despite the growing presence of oil &amp; gas activities on the NWS/Timor Sea, and the steady increase (9% per year) in humpback whale numbers (Bejder et al. 2016), whale populations have not been affected by collisions with oil &amp; gas related vessels.</p> <p>An interesting BIA for green turtles at Browse island (20 km buffer, DEE 2017a) has identified habitat critical for survival between November and March each year, however interesting turtles are likely to stay within 10 km of their nesting beach. Nevertheless, support vessel routes will not encroach on the 20 km buffer unless in adverse sea conditions, as they shall remain beyond the 12 nm territorial sea limit (12 nm equates to approximately 22 km). During weather events i.e. sheltering during cyclone events, support vessel may seek shelter in lee of Browse Island for safety reasons. The duration of such activities is expected to be limited to 12-48 hours and therefore the likelihood of interactions with marine turtles is further reduced.</p> <p>The controls described above are commensurate with the level of risk and the likelihood of a vessel strike causing injury or death to EPBC-listed species is considered to be Highly Unlikely (5). There have been no incidents of vessel strike reported during the nearby INPEX Ichthys operational activities in WA-50-L to date.</p> <p>If concurrent drilling operations were to occur during the activity, including the ongoing Ichthys drilling campaign in nearby WA-50-L, an increase in vessel traffic could be expected. However, given the distance (tens of km) between any concurrently operating MODUs and the controls in place, impacts to EPBC-listed species are not expected.</p>			
Residual risk summary			

Based on a consequence of Minor (E) and a likelihood of Highly Unlikely (5) the residual risk is Low (9).		
Consequence	Likelihood	Residual risk
Minor (E)	Highly Unlikely (5)	Low (9)
Assess residual risk acceptability		
<p>Legislative requirements</p> <p>EPBC Regulations 2000 – Part 8, Division 8.1 (Regulation 8.05) will be implemented with regards to vessel speeds and separation distances.</p> <p>Relevant person consultation</p> <p>No relevant person concerns have been raised regarding potential impacts and risks from the physical presence of the MODU and support vessels and potential for vessel strike associated with the petroleum activity.</p> <p>Conservation management plans / threat abatement plans</p> <p>Several conservation management plans have been considered in the development of this EP (refer Appendix A.2). Actions identified in the Blue Whale Conservation Management Plan and conservation advice documents for whale sharks regarding vessel strike incident reporting will be implemented and controls in this EP are in alignment with the intent of the National Strategy for Reducing Vessel Strike on Cetaceans and other Marine Fauna (DEE 2017c).</p> <p>ALARP summary</p> <p>Although the level of environmental risk is assessed as Low, a detailed ALARP evaluation was undertaken to determine what additional control measures could be implemented to reduce the level of impacts and risks. No additional controls, beyond those identified during the detailed ALARP assessment can reasonably be implemented to further reduce the risk of impact.</p> <p>Acceptability summary</p> <p>Based on the above assessment, the proposed controls are expected to effectively reduce the risk of impacts to acceptable levels because:</p> <ul style="list-style-type: none"> <li>• the activity demonstrates compliance with legislative requirements/industry standards</li> <li>• the activity takes into account relevant person feedback</li> <li>• the activity is managed in a manner that is consistent with the intent of conservation management documents</li> <li>• the activity does not compromise the relevant principles of ESD</li> </ul>		



<ul style="list-style-type: none"> <li>the predicted level of impact does not exceed the defined acceptable level in that the environmental risk has been assessed as <b>"low"</b>, the consequence does not exceed <b>"C – significant"</b> and the risk has been reduced to <b>ALARP</b>.</li> </ul>		
Environmental performance outcomes	Environmental performance standards	Measurement criteria
No injury/ mortality of cetaceans, whale sharks or turtles resulting from interactions with vessels undertaking the petroleum activity.	<p>Interactions between vessels and cetaceans will be consistent with EPBC Regulations 2000 – Part 8, Division 8.1 (Regulation 8.05) <i>Interacting with cetaceans</i>:</p> <ul style="list-style-type: none"> <li>Support vessels will not travel faster than 6 knots within 300 m of a cetacean (caution zone) and minimise noise.</li> <li>Support vessels will not approach closer than 50 m to a dolphin and/or 100 m for a whale (with the exception of bow riding).</li> <li>If a cetacean shows signs of being disturbed, support vessels will immediately withdraw from the caution zone at a constant speed of less than 6 knots.</li> </ul>	Records of event reports if vessel strike occurs.
	<p>Interactions between support vessels and whale sharks will be consistent with the Whale Shark Wildlife Management Program no. 57 (DPaW 2013b); specifically, support vessels will not travel faster than 8 knots within 250 m of a whale shark (exclusive contact zone) and not approach closer than 30 m of a whale shark.</p>	Records of breaches of whale shark code of conduct are documented.

7.5 Seabed disturbance

Table 7-14: Impact and risk evaluation – Seabed disturbance

Identify hazards and threats	
<p>To validate and ground truth the geophysical pre-drill survey data, approximately 25 samples of seabed sediments may be collected within the permit areas during the pre-drill site surveys (Section 3.2.1). Each sample comprises of approximately 0.13 m<sup>3</sup> of sediment collected using a specialised grab sampler.</p> <p>As described in Section 3.4, a moored MODU may be secured to the seabed through a series of anchors and anchor chains. No vessels will anchor during the activity. For a typical moored semi-submersible MODU, given the expected anchor and anchor chain dimensions (Section 3.4.1) approximately 1,000 m<sup>2</sup> (0.001 km<sup>2</sup>) of benthic habitat in each permit area may be disturbed.</p> <p>On completion of the drilling and wireline evaluation activities, the wells will be permanently plugged and abandoned. As described in Section 3.3.1 <i>Well Abandonment</i>, the conductor and casing will be cut below the sea floor (mudline) and the wellhead removed from each permit area. This process also has the potential to disturb benthic communities at the well location, albeit in an already disturbed area due to discharged drill cuttings (top-hole section) and excess cement returns at the well location.</p> <p>The physical footprint of the drilling activities will be limited to the well locations and MODU mooring system in WA-285-P and WA-343-P. A disturbance to benthic communities has the potential to result in reduced ecosystem productivity or diversity. In addition to physical disturbance, the drilling activities may also result in the localised generation of silt plumes that could affect surrounding benthic communities.</p>	
Potential consequence	Severity
<p>The particular values and sensitivities with the potential to be impacted by seabed disturbance are:</p> <ul style="list-style-type: none"> <li>• benthic communities</li> <li>• fish (demersal fish community KEF and commercial species)</li> <li>• underwater cultural heritage.</li> </ul> <p>Physical disturbance of the seabed may cause temporary disturbance to benthic habitats and loss of associated infauna and epifauna. As described in Section 4.8.3, seabed habitat surveys have been undertaken in the nearby Ichthys Field, and at Echuca and Heywood Shoals located approximately 80 km and 95 km from WA-285-P respectively and located approximately 75 km and 60 km from WA-343-P respectively (Figure 4-2).</p> <p>The results of the surveys observed that seabed topography was relatively flat and featureless (INPEX 2010) with no obstructions or features on the seafloor, such as boulders, reef pinnacles or outcropping hard layers (Fugro Survey Pty Ltd. 2005; RPS 2007). The observed habitat generally supported a diverse infauna dominated by polychaetes and crustaceans typical of the broader region and this was reflected in survey results which indicated that the epibenthic fauna was diverse but sparsely distributed (RPS 2008).</p>	<p>Insignificant (F)</p>

Benthic habitats within WA-285-P and WA-343-P are expected to comprise of soft substrate, typical of deep continental shelf seabed habitats which are widely distributed in deeper parts of the Browse Basin (RPS 2007), and commonly found throughout the NWMR (Baker et al. 2008). From the extrapolation of the nearby survey data, the seabed in WA-285-P and WA-343-P are expected to have heavily rippled sediments suggestive of strong near seabed currents and a lack of seabed features. In general, deep-sea infaunal assemblages are poorly studied on the NWS but are likely to be widely distributed in the region (INPEX 2010) including WA-285-P and WA-343-P.

Impacts from grab sampling are expected to be limited due to the small size of area affected by sampling. Well abandonment activities may also disturb benthic communities at the well locations during the cutting and recovery of the conductor/casing at the mudline; however as described in Table 7-7 and Table 7-8, the discharge of drill cuttings and excess cement adjacent to the well will have already previously disturbed this area and given the short-term duration of the activity (approximately 95 days in WA-285-P and 150 days in WA-343-P) it is not expected to delay the recolonisation and recovery of benthic habitats in the permit areas.

The total disturbance footprint from the petroleum activity is expected to be approximately 0.001 km<sup>2</sup> within in each permit area. In the context of WA-285-P and WA-343-P, which cover an area of approximately 490 km<sup>2</sup> and 530 km<sup>2</sup> respectively, this represents a very small area of disturbance (<0.000002% and <0.0000019%). The activity may result in the mortality of sessile fauna within this footprint and potentially the mortality of benthic infauna associated with the habitat; however, it is considered that potentially impacted benthic habitats and associated biota are well represented in the region. Therefore, any temporary disturbance and losses will represent a very small fraction of the widespread available habitat. Following removal of the MODU anchors and completion of the activity, the soft sediments will be left disturbed; however, based on the short-term duration (approximately 95 days in WA-285-P and 150 days in WA-343-P) upon retrieval of the anchors, benthic habitats would remain viable and are expected to recolonise through the recruitment of new colonists from planktonic larvae and adjacent undisturbed areas.

Displacement of sediments during anchor and mooring deployment/retrieval may result in temporary, localised plumes of suspended sediment and subsequent deposition of sediment resulting in smothering of marine benthic habitat and benthic communities in the immediate vicinity. Parts of the ancient coastline KEF, particularly where it exists as a rocky escarpment, are thought to provide biologically important habitats in areas otherwise dominated by soft sediments (DSEWPac 2012a). It is considered that the hard substrate of the escarpment is likely to support a range of sponges, corals, crinoids, molluscs, echinoderms and other benthic invertebrates (DSEWPac 2012a). The ancient coastline KEF is located, approximately 10 km south of WA-285-P and approximately 30 km south of WA-343-P at its closest point. Therefore, benthic communities associated with the KEF are not expected to be impacted as any silt plumes generated would have dissipated over this distance in the presence of near-seabed currents and it is not expected that sedimentation/smothering impacts would occur to benthic communities. This is also expected to be the case for Echuca and Heywood Shoals located over 60 km from either permit area at the closest points.

The potential consequence on benthic communities is a localised impact from physical disturbance within the footprint of the anchors/chains which is expected to be limited given the predicted sparse cover of benthic communities and expected recovery through recolonization. Therefore, it is assessed to be of inconsequential ecological significance (Insignificant F).

<p>The demersal fish community KEF overlaps both permit areas and a limited number of commercially significant fish stocks, considered as key indicator species, may be present in the waters of WA-285-P and WA-343-P (Table 4-6). Although they may be present, given the deep waters and absence of suitable habitats, the permit areas are not considered to offer spawning or aggregation habitat for demersal species (Section 4.12.1). Similarly, as southern bluefin tuna spawning is reported to occur in surface waters, despite the permit areas overlapping a small portion of the spawning grounds, disturbance to seabed habitats from the petroleum activity is not expected to affect fish spawning habitats (Insignificant F).</p> <p>As described in Section 4.11.4, within the PEZ there are a number of wrecks over 75 years old which are protected under the <i>Underwater Cultural Heritage Act 2018</i>. In relation to the exploration permits, and hence area of planned activities, the closest known shipwrecks are associated with guano transport and are located in proximity to Browse Island where they are reported to have been wrecked between 1878 and 1887.</p> <p>In many cases, the exact location of the shipwrecks is unknown. However, as WA-285-P is closest to Browse Island (approximately 19 km) at its nearest point and the planned activity will be undertaken within the south western portion of the WA-285-P permit area (Figure 1-1) approximately 40 km from Browse Island at its closest point, shipwrecks are not expected to be disturbed by the proposed activities.</p> <p>From the extrapolation of the nearby survey data, the seabed in WA-285-P and WA-343-P are expected to have heavily rippled sediments suggestive of strong near seabed currents and a lack of seabed features. Based on the distances to the permit areas from Browse Island, the physical footprint of disturbance and presence of strong near seabed currents, any impacts to cultural values associated with shipwrecks due to planned activities would be considered as a minor impact on heritage (Insignificant F)</p>			
Identify existing design and safeguards/controls measures			
<ul style="list-style-type: none"> <li>No planned anchoring of vessels.</li> </ul>			
Propose additional safeguards/control measures (ALARP Evaluation)			
Hierarchy of control	Control measure	Used?	Justification
Elimination	No anchoring by MODU	No	All MODUs require some form of contact to remain stable on the seabed at the well location. Given the water depth in the permit areas, the use of a jack-up rig is not possible and therefore a semi-submersible MODU will be used. If available, a DP MODU may be selected; however due to the drilling schedule availability cannot be guaranteed, in which case a moored semi-submersible MODU will be used and hence this has been assessed.

Substitution	None identified	N/A	N/A
Engineering	None identified	N/A	N/A
Procedures & administration	Rig move and positioning plan	Yes	Anchor installation and retrieval operations will be managed by implementation of the plan, based on the approved mooring design, to ensure that the mooring lines are installed as per design and the MODU remains on station and within the boundaries of WA-285-P and WA-343-P.
Identify the likelihood			
Given the controls in place, the likelihood of impacting benthic communities located at the anchor/chain locations in WA-285-P and WA-343-P, is considered to be Possible (3). Any temporary impacts are considered to be ecologically insignificant to the wider diversity and productivity of benthic communities in the region, including the ancient coastline KEF, based on the relatively small area potentially impacted i.e. total disturbance footprint relative to the widespread available habitat and expected recovery.			
Residual risk summary			
Based on a consequence of Insignificant (F) and a likelihood of Possible (3) the residual risk is Low (8).			
Consequence	Likelihood		Residual risk
Insignificant (F)	Possible (3)		Low (8)
Assess residual risk acceptability			
Legislative requirements			
There are no specific environmental guidelines/legislation regarding the environmental management of anchoring/moorings with respect to impacts on benthic communities. The rig moves and positioning plans will be developed in accordance with industry guidelines and standards namely the Mooring Code API RP 2SK and the APPEA MODU Mooring in Australian Tropical Waters Guidelines. In accordance with s572 of the OPGGS Act (removal of property), titleholders are required to remove all structures, equipment and other property from the title area, therefore any property associated with the plugged and abandoned exploration wells in WA-285-P and WA-343-P will be removed by INPEX.			
Relevant person consultation			

The DCCEE Cultural Heritage Section, identified as a relevant person and through consultation during the development of this EP in 2023 (Appendix B.6 ), provided additional information in relation to shipwreck locations in proximity to Browse Island and requirements of the *Underwater Heritage Act 2018*. Additional consideration was also given to potential for impacts to fish spawning habitats after licence holders from the southern bluefin tuna fishery and members of industry association, Tuna Australia, identified as relevant persons, raised a relevant matter with regard to potential impacts, on tuna spawning and recruitment from the proposed activity (Appendix B.6). Upon receipt of this feedback, the consequence assessment presented in this table of the EP was revised and updated.

Conservation management plans / threat abatement plans

Several conservation management plans have been considered in the development of this EP (refer Appendix A.2). The recovery plan for sawfish and river sharks specifies habitat degradation and modification as a principle threat and details actions to reduce impacts on critical sawfish and river shark habitats. There are no critical habitats for sawfish or river sharks within the permit areas and therefore no specific actions relating to seabed disturbance from anchoring/mooring activities apply.

ALARP summary

Although the level of environmental risk is assessed as Low, a detailed ALARP evaluation was undertaken to determine what additional control measures could be implemented to reduce the level of impacts and risks. No additional controls, beyond those identified during the detailed ALARP assessment can reasonably be implemented to further reduce the risk of impact.

Acceptability summary

Based on the above assessment, the proposed controls are expected to effectively reduce the risk of impacts to acceptable levels because:

- the activity demonstrates compliance with legislative requirements/industry standards
- the activity takes into account relevant person feedback
- the activity is managed in a manner that is consistent with the intent of conservation management documents
- the activity does not compromise the relevant principles of ESD
- the predicted level of impact **does not exceed the defined acceptable level in that the environmental risk has been assessed as “low”, the consequence does not exceed “C – significant” and the risk has been reduced to ALARP.**

Environmental performance outcomes	Environmental performance standards	Measurement criteria
Seabed disturbance is limited to planned well locations.	No planned anchoring of vessels associated with the activity.	Incident report

	<p>INPEX will verify that the contractor prepares and implements a Rig Move and Positioning Plan prior to the MODU arriving in WA-285-P and WA-343-P. The plan shall include:</p> <p>Details of the configuration of the anchors necessary to keep the MODU securely on location and provides anchor-mooring analyses and procedures for anchor mobilisation and retrieval activities. This includes:</p> <ul style="list-style-type: none"> <li>• planning and verification of well and MODU anchoring locations (including for relief wells) so that well and anchors are all located within the boundaries of each permit area.</li> <li>• definition of procedures for anchor deployment and recovery.</li> <li>• anchors will be carried to the deployment location and deployed or retrieved directly using AHSV to minimise drag.</li> </ul>	<p>Documentation confirming implementation of the Rig Move and Positioning Plan and any issues with anchor deployment, use and recovery that could increase seabed footprint of disturbance.</p>
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7.6 Social and cultural heritage protection

7.6.1 Physical presence - disruption to other marine users

Table 7-15: Impact and risk evaluation – Physical presence of MODU and vessels resulting in disruption to marine users

Identify hazards and threats	
<p>The physical presence of the MODUs and vessels in WA-285-P and WA-343-P has the potential to cause disruption to other marine users, including shipping operators and fisheries through the reduction of space available to conduct shipping and fisheries activities in the permit areas. Support vessels do not have an associated 500 m PSZ; however, MODUs are required to maintain a PSZ under the OPGGS Act. The PSZ will remain in place for the duration of the drilling activity while the MODU is at each well location estimated to be 95 days in WA-285-P and 150 days in WA-343-P. The potential, albeit temporary, interference with and/or exclusion of other users, within the PSZ may result in a loss of revenue for commercial users including fisheries.</p>	
Potential consequence	Severity
<p>The particular values and sensitivities with the potential to be impacted by physical presence of the MODU/vessels are:</p> <ul style="list-style-type: none"> <li>• shipping</li> <li>• commercial, traditional (Indonesian) and recreational fisheries including Aboriginal traditional use of resources.</li> </ul> <p>Other marine users in the vicinity of WA-285-P and WA-343-P may be impacted by MODU and vessel presence (including the presence of PSZ exclusion) because of the loss of navigable space available to conduct their activities. The implications of such disruptions include changes to sailing routes and journey times, or reduced ability to fish in an area. The worst-case consequence from a loss of access to an area could result in economic losses and/or potential reduction in employment levels.</p>	Insignificant (F)



A review of **AMSA's** vessel traffic data for the Browse Basin confirmed the absence of any major shipping lanes within the permit areas (Figure 4-9). A large proportion of the high-density vessel traffic in and around the permit areas is related to supply vessels supporting the offshore developments (INPEX Ichthys facility and Shell Prelude FLNG facility) that routinely transit between the offshore production facilities and the ports of Darwin and Broome on the Australian mainland. Therefore, in some areas of WA-285-P heavy vessel traffic may occur. As these operational facilities are situated further away from WA-343-P, approximately 60 km south (Ichthys) and 50 km south-west (Prelude), support vessel transit routes do not intersect WA-343-P. Despite the absence of any shipping lanes or petroleum supply transit routes, vessel traffic will still occur in WA-343-P, and in some areas of the permit vessel traffic is still considered to be heavy. Therefore, any vessels passing through either permit area may temporarily suffer a minor loss of navigable space when the PSZs are in place during the drilling activities. Individual vessels may have to slightly alter their sailing routes to avoid the MODUs potentially leading to longer journey times. However given the relatively small size of the PSZs in relation to the permit areas, any disruption to the shipping industry is expected to cause a minor, temporary impact and not result in any economic losses. Therefore, the consequence is considered to be insignificant (F).

Several Commonwealth and state managed fisheries overlap WA-285-P, WA-343-P and the PEZ (Section 4.12.1). Fisheries whose fishing grounds overlap the permit areas and therefore may potentially have access limitations during the 95-day and 150-day drilling activities are highlighted in bold in Table 4-7 and Table 4-8. In many instances, although the area of the fishery overlaps the permit area, no fishing effort actually occurs due to water depth, water temperature and lack of suitable habitat. Of the fisheries overlapping WA-285-P and WA-343-P, the North West Slope Trawl Fishery is the only active fishery; however, it reportedly fishes at low levels, with only negligible trawl fishing occurring in the nearby Ichthys Field (AFMA 2022a). As described in Table 4-7, through relevant person consultation with Tuna Australia, a consortium of WTBF concession owners aim to fish key NW grounds from late 2023 onwards using specialized ultra-low temperature fishing vessels, including in areas in and adjacent to the proposed exploration drilling area.

Based on the low level of identified commercial fishing activity and the relatively small spatial area occupied by the PSZs, in comparison to the entire extent of the fishing grounds available to commercial operators, and the relatively short-term duration of the activity (95 and 150 days), the potential loss of navigable space in which a fishing operator could conduct their activities is considered to be insignificant (F). If concurrent drilling operations were to occur, the presence of MODUs (and associated PSZs) and vessels operating in the permit areas is not expected to significantly affect the availability of navigable waters in relation to the area covered by the fishing grounds. Therefore, no cumulative impacts are expected.

WA-285-P and WA-343-P are both situated within the memorandum of understanding (MoU) box for Indonesian traditional fishing (DSEWPaC 2012a) as shown on Figure 4-2. Therefore, Indonesian fishing vessels may be present in the permit areas when transiting between fishing grounds at Scott Reef and Browse Island. This would potentially only apply to WA-285-P, as Scott Reef and Browse Island are located approximately 150 km and 68 km from WA-343-P. Therefore, any interference and disruption are not expected, and impacts are expected to be insignificant (F).

Recreational fishing and Aboriginal traditional use of resources may also occur off the WA and NT coast during certain times of the year where resource availability may be influenced by the season (Section 4.11.5). There is no evidence that recreational fishing or Aboriginal traditional activities occur within WA-285-P and WA-343-P most likely due to the distance from land, lack of features of interest and deep waters. Therefore, the potential for loss of access to the recreational fishing industry or traditional owners as a result of MODU/vessel physical presence in the permit areas is considered to be of Insignificant consequence (F).			
Identify existing design and safeguards/controls measures			
<ul style="list-style-type: none"> <li>Ongoing consultation with relevant persons as per Section 9.8.3 and Table 9-6.</li> <li>MODU and vessels fitted with lights, signals, an automatic identification system (AIS) transponders and navigation equipment as required by the <i>Navigation Act 2012</i> and associated Marine Orders (consistent with COLREGS requirements).</li> </ul>			
Propose additional safeguards/control measures (ALARP Evaluation)			
Hierarchy of control	Control measure	Used?	Justification
Elimination	Eliminate the use of MODU/vessels	No	The use of MODU/vessels to undertake the activity cannot be eliminated.
Substitution	Reduce the size of the PSZ	No	The implementation of the PSZ promotes the safety of other sea users and the integrity of MODUs. In accordance with the OPGGS Act, PSZs are required and cannot be reduced in size.
	Alter timing to avoid peak fishing periods	No	The area that others are excluded from is of limited size (500 m radius PSZ) when compared to the area available to other marine users. In conjunction with low fishing activity in the area, as confirmed through consultation, altering the timing of the activity is not deemed necessary or considered an effective control.
Engineering	None identified	N/A	N/A

<p>Procedures &amp; administration</p>	<p>Implement a claims process to provide compensation for commercial fisheries for damage to fishing equipment or loss of access (displacement)</p>	<p>No</p>	<p>As the proposed activity is relatively short-term (95 days and 150 days) and the stationary nature of the MODU while drilling, damage or loss of fishing equipment directly as a result of the activity is highly unlikely to occur given the presence of the PSZ. Associated pre-drill site survey and support vessels will be operating under maritime laws including all navigational safety and notification requirements etc. As such, the development and implementation of a claims/compensation process for damage or loss of fishing equipment is not deemed reasonable.</p> <p>Implementation of a claims process to compensate commercial fisheries that are excluded from the 500 m PSZ around the MODU, within their fishing grounds is considered to be grossly disproportionate. Based on the relatively small size of the PSZ in the context of the available fishing grounds and the temporary nature of the activity (95 days and 150 days), the physical presence of the MODU and vessels associated with the drilling activities will have an insignificant impact on commercial fisheries. The potential for economic losses or reduction in employment levels is considered to be Highly Unlikely given that access to the remainder of the fishing grounds will be available. Note that in the ongoing consultation and notifications presented in Table 9-6, INPEX has added a new notification for fisheries represented by Tuna Australia to be provided with advanced notice of the start and end dates of the activity.</p>
<p>Identify the likelihood</p>			
<p>The MODU and vessels associated with the drilling activities in WA-285-P and WA-343-P will have an insignificant impact by reducing the navigable space available to shipping and fishing operators. The likelihood of loss of access/space in the open ocean resulting in an economic loss or reduction in employment levels is considered to be Highly Unlikely (5). During relevant person engagement for the EP, shipping operators were not considered as relevant persons to be consulted, as the petroleum activity is outside of any shipping routes/channels. Relevant persons, including fisheries, were consulted throughout the development of this EP. Commercial fisheries will continue to be informed and updated on operational activities being undertaken by INPEX. On this basis, with the controls in place, impacts to economic values from loss of revenue for fisheries due to lack of access to fishing grounds with potential reduction in employment levels is considered Highly Unlikely (5).</p>			
<p>Residual risk summary</p>			
<p>Based on a consequence of Insignificant (F) and a likelihood of Highly Unlikely (5) the residual risk is Low (10).</p>			

Consequence	Likelihood	Residual risk
Insignificant (F)	Highly Unlikely (5)	Low (10)
Assess residual risk acceptability		
<p>Legislative requirements</p> <p>While a MODU is on location, a PSZ with a 500 m radius will be maintained around it to control activities and reduce the risk of marine collisions, as required under the OPGGS Act. The OPGGS Act requires that activities do not cause interference to other users more than is reasonably necessary for carrying out rights conferred by the Act. MSI notifications will be issued for the drilling period via AMSA, while the AHO will issue a Notice to Mariners. The MODU and vessels will be equipped with navigation equipment as required by the <i>Navigation Act 2012</i>.</p> <p>Relevant person consultation</p> <p>During relevant person consultation AMSA requested that all relevant notifications be adopted as controls in this EP and therefore, these requirements have been adopted. AMSA also identified that lighting of vessels should be consistent with the requirements of the COLREGS. All vessels are required to comply with the <i>Navigation Act 2012</i>, and associated Marine Orders, which are consistent with the COLREGS requirements.</p> <p>During consultation for the development of this EP, Tuna Australia identified as a relevant person, raised a relevant matter on behalf of its members with regard to potential impacts on commercial tuna fisheries from a loss of access to fishing grounds (displacement) due to the physical presence of the MODU and vessels and damage or loss of fishing equipment (Appendix B.6). Upon receipt of this feedback, the consequence assessment presented in this table of the EP was revised and updated. Additionally, consideration of a new control (claims process for compensation) has been included. Although this control has not been adopted, a new notification control has been presented in Table 9-6 with a corresponding EPO, EPS and MC in Table 9-7.</p> <p>Conservation management plans / threat abatement plans</p> <p>Several conservation management plans have been considered in the development of this EP (refer Appendix A.2). None of the recovery plans or conservation advice documents are relevant to the physical presence of MODUs/vessels disrupting shipping or fishing operators.</p> <p>ALARP summary</p> <p>Although the level of environmental risk is assessed as Low, a detailed ALARP evaluation was undertaken to determine what additional control measures could be implemented to reduce the level of impacts and risks. No additional controls, beyond those identified during the detailed ALARP assessment can reasonably be implemented to further reduce the risk of impact.</p> <p>Acceptability summary</p> <p>Based on the above assessment, the proposed controls are expected to effectively reduce the risk of impacts to acceptable levels because:</p> <ul style="list-style-type: none"> <li>the activity demonstrates compliance with legislative requirements/industry standards</li> </ul>		

- the activity takes into account relevant person feedback
- the activity is managed in a manner that is consistent with the intent of conservation management documents
- the activity does not compromise the relevant principles of ESD
- the predicted level of impact does not exceed the defined acceptable level in that the environmental risk has been assessed as **“low”**, the consequence does not **exceed “C – significant”** and the risk has been reduced to **ALARP**.

Environmental performance outcomes	Environmental performance standards	Measurement criteria
Interference with other marine users is limited to the extent necessary for the reasonable exercise of the right conferred by the petroleum title.	Vessels will be fitted with lights, signals, AIS transponders and navigation and communications equipment, as required by the <i>Navigation Act 2012</i> .	Records confirm that required navigation equipment is fitted to vessels to ensure compliance with the <i>Navigation Act 2012</i> .

## 7.7 Loss of containment

The activity will require the handling, use and storage of chemicals and hydrocarbon materials which may include, but are not limited to:

- diesel
- hydraulic oil
- BOP/hydraulic control fluids
- grease
- drilling fluids.

Undertaking the activity introduces the potential for loss of containment events. These events may be classified as Level 1, Level 2 or Level 3 incidents, in accordance with the INPEX Browse Regional OPEP described in Table 8-10 of this EP.

INPEX defines an emergency condition as:

“an unplanned or uncontrolled situation that harms or has the potential to harm people, the environment, assets, Company reputation or Company sustainability and which cannot, through the implementation of Company standard operating procedures, be contained or **controlled.**”

An evaluation of the environmental impacts and risks associated with emergency conditions is included in Section 8 of this EP.

A summary of potential loss of containment events (and emergency conditions) associated with this EP is presented in Table 7-16. Incident levels are indicative only and classifications have been assigned for the purposes of enabling the risk evaluation to be undertaken. In the event of a spill, the incident level will be classified as described in the INPEX Browse Regional OPEP (Table 8-10).

Table 7-16: Representative loss of containment events and emergency conditions identified for the activity

Scenario		Basis of volume calculation	Type	Indicative incident level	Section addressed
Source	Threat				
Management of chemicals and hydrocarbons products on board	Inappropriate use /handling/ spills	Failure of tote tank estimated to be in the order of 1 m <sup>3</sup>	Various	1	Accidental release – Table 7-17
	Failure of hydraulic hoses on equipment	Failure of hydraulic hoses estimated to be in the order of < 1 m <sup>3</sup>			
	Drop out of hydrocarbons while flaring due to non-combustion	Drop out volumes estimated to be in the order of < 1 m <sup>3</sup>			
Cargo transfers	Dropped objects	5.5 m <sup>3</sup> – based on the volume of a tote tank which, if lost during cargo transfer,	Various	1	Accidental release – Table 7-17

Scenario		Basis of volume calculation	Type	Indicative incident level	Section addressed
Source	Threat				
		has the potential to result in a full loss of contents			
SBM transfers	Spill during transfer	10 m <sup>3</sup> – based on hose failure during transfer 70 m <sup>3</sup> - loss of riser contents	Various	1	Accidental release – Table 7-17
Hydrocarbon transfers	Spill during bunkering	10 m <sup>3</sup> – based on hose failure during transfer	Group II – diesel	1	Accidental release – Table 7-17
Helicopter refuelling	Spill during refuelling on board the MODU	4.4 m <sup>3</sup> – based on volume stored on board the MODU	Group I (i.e. aviation fuel)	1	Accidental release – Table 7-17
Emergency conditions (refer to Section 8)					
Loss of well containment	Integrity failure	Brewster reservoir: 255,475 m <sup>3</sup> – based on 3,193 m <sup>3</sup> per day for an 80-day blowout  Plover reservoir: 99,705 m <sup>3</sup> - based on 867 m <sup>3</sup> per day for a 115-day blowout.	Group I – condensate	3	Loss of well containment – Section 8.2
Vessels	Collision	250 m <sup>3</sup> – based on capacity of largest single fuel tank (AMSA 2015a)	Group II – diesel	2	Vessel collision – Section 8.3

7.7.1 Accidental release

Table 7-17: Impact and evaluation – loss of containment: accidental release

Identify hazards and threats	
<p>Several potential loss of containment events were identified (Table 7-16), including minor spills on board (&lt;1 m<sup>3</sup>); drop out of hydrocarbons during flaring (&lt; 1 m<sup>3</sup>); loss of tote tank during cargo transfer (5.5 m<sup>3</sup>); failure of hydraulic hoses (&lt;1 m<sup>3</sup>); loss of SBM during transfer or from riser (10 – 70 m<sup>3</sup>) and loss of hydrocarbon fuels during bunkering of vessels and helicopters (4.4 - 10 m<sup>3</sup>).</p> <p>Specific predictive modelling was not undertaken for the potential loss of containment events. This was based on the expected low volumes and that any predicted impacts are likely to be localised to the point of release. Given the properties of the chemicals involved (predominantly Group I and Group II hydrocarbons), which tend to be more volatile and less persistent in the environment any spills will rapidly disperse at the sea surface.</p> <p>An accidental release overboard resulting in a spill that reaches the marine environment has the potential to result in localised changes to water quality, resulting in impacts to marine fauna and planktonic communities at the sea surface, but no impact on deeper water communities or benthic habitats would be expected.</p>	
Potential consequence	Severity
<p>The particular values and sensitivities with the potential to be impacted by a loss of containment/accidental release are:</p> <ul style="list-style-type: none"> <li>• EPBC-listed species</li> <li>• planktonic communities.</li> </ul> <p>Potential accidental releases overboard from loss of containment events may result in the exposure of marine fauna and plankton near the sea surface, to a range of chemicals and Group I and Group II hydrocarbons. Foreseeable loss of chemicals to the marine environment would be of small volumes (&lt;1–5 m<sup>3</sup>), and impacts would generally be of low consequence (Insignificant F). Therefore, the focus of this assessment is based on the larger spill volumes associated with loss of SBM and diesel during transfers/bunkering.</p> <p>Given the anticipated volumes (worst case 10 m<sup>3</sup> of diesel or 70 m<sup>3</sup> SBM), potential exposure is expected to be localised to the point of discharge in the permit areas and in some instances a portion of the spilled volume is expected to be at least partially captured within the MODU drainage system, therefore further reducing the potential spill volume. The 70 m<sup>3</sup> release from loss of the riser, would likely occur at the seabed. Upon release to the marine environment hydrocarbons will disperse through natural physical oceanic processes, such as currents, tides and waves, and photochemical and biological degradation. Therefore, any surface expression is expected to weather and dissipate in a relatively short time with limited potential for exposure to surfacing marine fauna or plankton at the sea surface.</p>	<p>Insignificant (F)</p>



As air-breathers, marine mammals, if they surface, are vulnerable to exposure to hydrocarbon spill impacts through the inhalation of evaporated volatiles. Effects include toxic effects, such as damage to lungs and airways, and eye and skin lesions from exposure to oil (WA DoT 2018). Vapours, if inhaled, have the potential to damage the mucous membranes of the airways and the eyes. Inhaled volatile hydrocarbons are transferred rapidly to the bloodstream and may accumulate in tissues, such as in the brain and liver, resulting in neurological disorders and liver damage (Gubbay & Earll 2000). Blue whales and humpback whales (baleen whales), that may filter feed near the surface, would be more likely to ingest oil than gulp-feeders, or toothed-whales and dolphins. Spilled hydrocarbons may also foul the baleen fibres of baleen whales, thereby impairing food-gathering efficiency, or resulting in the ingestion of hydrocarbons, or prey that has been contaminated with hydrocarbons (Geraci & St. Aubin 1988).

There are no known marine fauna BIAs or aggregation areas that would result in sedentary behaviour in WA-285-P and WA-343-P. The outer extent of the green turtle internesting buffer at Browse Island overlaps the far north eastern boundary of WA-285-P (Figure 4-6); however, the activity location, and hence location of any discharges, is in the south-west of the permit area approximately 40 km from Browse Island at its closest point (Figure 1-1). Additionally, a whale shark foraging BIA is located approximately 5 km from WA-285-P and approximately 10 km from WA-343-P at its closest point (Figure 4-7). However, based on the levels of whale shark abundance observed in numerous studies (as described in Section 4.9.4), the likelihood of whale shark presence within this BIA is considered very low, with no specific seasonal pattern of migration. Given the low volumes, limited duration of exposure due to expected weathering and dispersion in an open ocean environment, the level of consequence is expected to present a local scale event of inconsequential ecological significance (Insignificant F).

As a consequence of their presence close to the water surface, plankton may be exposed to any entrained/dissolved components of any hydrocarbons spilled at the sea surface, particularly in high energy seas where the vertical mixing of oil through the water column would be enhanced. The effects of oil on plankton have been well studied in controlled laboratory and field situations. The different life stages of a species often show widely different tolerances and reactions to oil pollution. Usually, eggs, larval and juvenile stages will be more susceptible than adults (Harrison 1999). Post-spill studies on plankton populations are few, but those that have been conducted, typically show either no effects or temporary minor effects (Kunhold 1978). Given the high temporal and spatial variability in plankton communities, and the small size of the area impacted by an accidental release, the potential consequence in regard to planktonic communities is considered to be Insignificant (F).

Identify existing design and safeguards/controls measures

- All vessels >400 GT will have a SOPEP (or SMPEP) in accordance with Marine Order 91
- Spill kits will be available on-board MODUs and vessels
- Personnel will receive an induction/training to inform them of deck spill response requirements in accordance with Table 9-3
- INPEX chemical, assessment and approval procedure for selection of chemicals in accordance with Section 9.6.1 and Table 9-5
- INPEX lifting standard and cargo transfer procedures.

Propose additional safeguards/control measures (ALARP Evaluation)			
Hierarchy of control	Control measure	Used?	Justification
Elimination	Eliminate the use of chemicals and hydrocarbons on board.	No	Chemicals and hydrocarbons are required for safe and efficient operations and cannot be eliminated. In the case of diesel, it is required as fuel and cannot be eliminated.
	No bunkering or SBM transfers.	No	Bunkering of fuel and SBM from supply vessels to MODUs is required during the activity as space limitations/tank capacities mean that supplies need to be replenished.
	No cargo transfers.	No	Cargo transfers cannot be eliminated, as this is the only practicable option for supplying MODUs in offshore locations.
Substitution	None identified	N/A	N/A
Engineering	Prevent onboard spills through appropriate storage of hydrocarbons and chemicals including their associated waste constituents.	Yes	Through bunding of storage areas and good housekeeping practices, the storage and management of hydrocarbon and chemical products and associated wastes can reduce the potential risk of a loss of containment event occurring.
Procedures administration &	Implement hydrocarbon/SBM transfer procedures that specify keeping of hose registers, and operational requirements (e.g. minimum lighting conditions, communications, visual monitoring, dry break/break away couplings installed and used, use and maintenance of certified hoses and a permit-to-work system).	Yes	The transfer of fuel and SBM will occur in accordance with strict conditions for preventing spills to the marine environment. Offshore transfers of fuel and SBM will be conducted in accordance with the <b>MODU contractor's transfer procedures.</b>
	Hydraulic equipment on board MODU and vessels will be subject to routine servicing and inspection to ensure it is fit for purpose.	Yes	Routine servicing and inspection of hydraulic equipment will ensure it is fit for purpose and minimise the potential for leaks and spills to deck as a result of corrosion, and wear and tear of hydraulic hoses.

	DST procedure (well test package) implemented for flaring operations.	Yes	This procedure includes a continuous 24/7 flare watch to observe and monitor flaring operations and reduce potential for hydrocarbon drop out during flaring. Function testing of continuous ignition system and pilot system is also covered by the procedure.
Identify the likelihood			
<p>Routine vessel controls, such as bunding, and the ready availability of spill recovery equipment reduce the likelihood of any spills reaching the environment. Routine servicing of hydraulic equipment onboard reduces the likelihood of spills during the activity. In the event of an overboard spill from a MODU/vessel or an unplanned release, based on the low volumes and expected weathering of spilled chemicals, in conjunction with the controls in place the likelihood of a loss of containment event causing harm to the identified receptors is considered to be Unlikely (4).</p>			
Residual risk summary			
Based on a consequence of Insignificant (F) and a likelihood of Unlikely (4) the residual risk is Low (9).			
Consequence	Likelihood		Residual risk
Insignificant (F)	Unlikely (4)		Low (9)
Assess residual risk acceptability			
<p>Legislative requirements</p> <p>The activities and proposed management measures are compliant with industry standards and relevant Australian legislation, specifically concerning prevention pollution, including Marine Order 91: Marine Pollution Prevention - Oil.</p> <p>Relevant person consultation</p> <p>No relevant person concerns have been raised regarding potential impacts and risks from accidental release/loss of containment. Spill response activities and notifications to relevant persons have been identified and included in INPEX spill response processes.</p> <p>Conservation management plans / threat abatement plans</p> <p>Several conservation management plans (refer Appendix A.2) identify oil or chemical spills as key threatening processes, through both direct/acute impacts, as well as indirect impacts through habitat degradation. The prevention of loss of containment events and reducing impacts to the marine environment through the preventative controls in place and spill response preparedness, demonstrates alignment with the various conservation management plans.</p>			

ALARP summary

Although the level of environmental risk is assessed as Low, a detailed ALARP evaluation was undertaken to determine what additional control measures could be implemented to reduce the level of impacts and risks. No additional controls, beyond those identified during the detailed ALARP assessment can reasonably be implemented to further reduce the risk of impact.

Acceptability summary

Based on the above assessment, the proposed controls are expected to effectively reduce the risk of impacts to acceptable levels because:

- the activity demonstrates compliance with legislative requirements/industry standards
- the activity takes into account relevant person feedback
- the activity is managed in a manner that is consistent with the intent of conservation management documents
- the activity does not compromise the relevant principles of ESD
- the predicted level of impact does not exceed the defined acceptable level in that the environmental risk has been assessed as **“low”, the consequence does not exceed “C – significant” and the risk has been reduced to ALARP.**

Environmental performance outcomes	Environmental performance standards	Measurement criteria
No loss of containment of hydrocarbons or chemicals to the marine environment.	Premobilisation HSE inspections confirm that MODU and vessels >400 GT have SOPEP (or SMPEP) compliant with Marine Order 91.	Premobilisation HSE inspection documentation.
	Spill kits will be available on board the MODUs and vessels.	Inspection records confirm spill kits are available and stocked.
	INPEX lifting standard and cargo transfer processes are implemented.	Training records of personnel involved in lifting and cargo transfer activities.
	Bunding around stored bulk wet chemicals or hazardous liquid waste storage areas in accordance with Australian standards.	Bunding and drainage verified by containment specialist.
	INPEX will verify the contractor implements MODU and vessel bunkering procedures for hydrocarbon and SBM transfers that will include as a minimum:	Documentation that hydrocarbon and SBM bunkering procedures approved and are implemented, e.g. undertaken during daylight hours and in appropriate sea state, etc.

	<ul style="list-style-type: none"> <li>• completion of permit to work (PTWs) for all diesel and SBM transfers.</li> <li>• dry break couplings/weak link breakaway couplings and flotation collars are installed on hydrocarbon bulk transfer hoses to prevent entanglement and enable early leak detection.</li> <li>• hydrocarbon bulk transfer hoses are certified and rated for hydrocarbons and pressure tested and maintained in a hose register.</li> <li>• bunkering is undertaken during daylight hours, if permit to work in place and weather is good (e.g. suitable sea conditions). Night-time bunkering will not be undertaken on a routine basis. This will only be undertaken in fully lit conditions and in favourable sea states.</li> <li>• preventive maintenance of hydraulic equipment to ensure its integrity.</li> </ul>	<p>Hose register.</p> <p>Completed and approved PTW records for all diesel and SBM transfers.</p> <p>Documentation of maintenance recorded in the preventive maintenance system.</p>
	<p>DST procedure (well test package) implemented including:</p> <ul style="list-style-type: none"> <li>• Continuous (24/7) flare watch during flaring operations</li> <li>• Function testing of continuous ignition system and pilot system.</li> </ul>	<p>Pre-flow checklist</p>

## 8 EMERGENCY CONDITIONS

An evaluation of potential spill sources and worst-case spill scenarios (WCSS) identified several potential emergency conditions related to the activity (Table 7-16). The emergency conditions are summarised in Table 8-1.

Table 8-1: Potential emergency conditions

Scenario		Hydrocarbon type	Release location
Source	Threat		
Loss of well containment: Brewster and Plover reservoirs	Integrity failure	Group I – condensate	Subsea
Vessels	Collision	Group II – diesel	Surface

### 8.1 PEZ and EMBA based on oil spill modelling

As described in Section 4, the PEZ has been derived to inform the outer boundary of potential exposure for oil spill planning and scientific monitoring purposes using low thresholds described in NOPSEMA bulletin #1 (NOPSEMA 2019). The low thresholds used may not be ecologically significant as hydrocarbon exposure has the potential to result in both acute and chronic impacts to marine flora and fauna, depending on the sensitivity of organisms exposed and the concentration of exposure.

A summary of the range of concentrations of different hydrocarbon exposure thresholds adopted to conservatively identify the PEZ and EMBA (area where potential environmental impact may occur) is described in Table 8-2. These thresholds include surface, entrained, dissolved and shoreline accumulation thresholds to account for the different partitioning and fate of oils released in different scenarios as outlined in Table 8-1.

Table 8-2: Hydrocarbon exposure thresholds

Threshold		Description
Surface hydrocarbon exposure	PEZ 1 g/m <sup>2</sup>	To define the outer extent of potential exposure, a low surface exposure threshold of 1 g/m <sup>2</sup> has been used to provide an indication of the furthest extent at which a visible sheen may be observed on the sea surface. It is considered too low for ecological impact assessment purposes and is used to inform oil spill scientific monitoring purposes (water quality) as per NOPSEMA (2019).  The low exposure threshold also provides an indication of socioeconomic receptors, such as oil and gas industry, tourism and fishing activities that may be affected by safety concerns associated with a light/visible surface expression.

Threshold		Description
	EMBA 10 g/m <sup>2</sup>	The surface oil threshold of 10 g/m <sup>2</sup> to assess environmental impacts is based on research by French-McCay (2009) who has reviewed the minimum oil thickness (0.01 mm) required to impact on thermoregulation of marine species, predominantly seabirds and furred mammals (furred mammals are not present within the EMBA of this EP). Seabirds are particularly vulnerable to oil spills because their feathers easily become coated, and they feed in the upper water column. Other tropical marine megafauna species are unlikely to suffer from comparable physical oil coating because they have smooth skin. Applying the threshold for the scenarios outlined for this EP therefore, represents a conservative measure to define the EMBA. This threshold has been applied to various industry oil spill impact assessments by French-McCay (2002; 2003) and is recommended in the AMSA guidelines (AMSA 2015b).
Entrained hydrocarbon exposure	PEZ 10 ppb	The low exposure threshold of 10 ppb has been used to inform the outer extent of potential exposure to entrained hydrocarbons in the water column. It is considered too low for ecological impact assessment and is used to inform oil spill scientific monitoring purposes (water quality) as per NOPSEMA (2019).
	EMBA 100 ppb	<p>The biological impact of entrained oil cannot be determined directly using available ecotoxicity; however, it can be derived from tests using either water soluble fraction (WSF) of oil or oil-in-water dispersions (OWD). OWD are prepared by highly turbulent shaking of oil in water, which are allowed to separate before use, so that the test organisms are exposed to the dissolved fractions, as well as any very fine entrained oil droplets that remain in suspension. However, results are conservative because entrained droplets are less biologically available to organisms through tissue absorption than the dissolved fraction (Tsvetnenko 1998).</p> <p>To provide an estimate of the magnitude of toxicity effects from oil exposure to marine biota across a wide taxonomic range, a review was undertaken of global ecotoxicology data for numerous species (115 for fish, 129 for crustaceans, and 34 for other invertebrates) by French-McCay (2002). These were based on both WSF and OWD tests. Under low turbulence conditions, the total PAH LC<sub>50</sub> for species of average sensitivity ranges from about 300–1,000 ppb. Under higher turbulence, such as a subsea release, the total PAH LC<sub>50</sub> decreased to about 64 ppb (French-McCay, 2002). Comparatively, the lowest no observed effect concentration level for unweathered Browse condensate from the north-west region was found to be 20 ppm, based on a fish imbalance and tiger prawn toxicity test (Woodside 2014).</p>

Threshold		Description
		<p>In addition to potential toxicity impacts, entrained oil droplets (although less bioavailable) may present smothering impacts to submerged receptors. Physical and chemical effects of the entrained oil droplets have been demonstrated through direct contact with receptors through physical coating of gills and body surfaces, and accidental ingestion (NRC 2005).</p> <p>To be conservative, a 100 ppb entrained threshold is proposed to account for any ecological impacts (toxicity and smothering) in the EMBA.</p>
Dissolved hydrocarbon exposure	PEZ -	As dissolved hydrocarbons are the soluble component of entrained hydrocarbons, the conservative low exposure threshold used for entrained hydrocarbons at 10 ppb encompasses the dissolved component to identify the furthest extent of potential exposure used for oil spill planning and scientific monitoring purposes (water quality) as per NOPSEMA (2019).
	EMBA 50 ppb	The 99% species protection threshold of 50 ppb for PAH (ANZG 2018) has been selected to indicate the zones where acute exposure could potentially occur over shorter durations, following a spill.
Shoreline accumulation	PEZ 10 g/m <sup>2</sup>	Certain industries, such as tourism may be affected by visible sheen on sandy beaches, therefore a shoreline accumulation of 10 g/m <sup>2</sup> has been included for information purposes to inform the PEZ, that may indicate potential socio-economic impact as per NOPSEMA (2019) guidance. However, it is considered too low for ecological impact assessment purposes.
	EMBA 100 g/m <sup>2</sup> (where threshold for surface or entrained/dissolved hydrocarbon exposure at that shoreline is also exceeded).	A shoreline accumulation threshold of 100 g/m <sup>2</sup> is recommended from the review by French-McCay (2009) based on exposure to birds and smothering of invertebrates in intertidal habitats. This threshold is also proposed to be an acceptable minimum thickness that does not inhibit recovery and is best remediated by natural coastal processes (AMSA 2015b).

As described in Section 4, the spatial extent of the PEZ, used as the basis for the EPBC Act Protected Matters database search (Appendix A.1), was determined using stochastic spill modelling by applying the low thresholds. The EMBA, used as the basis for the impact and risk evaluation presented in this section of the EP, was determined by applying the defined impact exposure thresholds detailed in Table 8-2.



The stochastic spill modelling results from the three worst-case spill scenarios included a loss of well containment from both Brewster (WA-285-P) and Plover (WA-343-P) reservoirs, and a vessel collision scenario. All modelling outputs (300 modelled runs) from all seasons (summer, winter and transitional) and under different hydrodynamic conditions (e.g. currents, winds, tides, etc.) were overlaid and the furthest extents were used to define the outer boundaries of the PEZ and EMBA as presented in Figure 8-1.

Overlaying of multiple stochastic spill modelling results provides a highly conservative representation of the furthest extent PEZ and EMBA from all potential loss of containment events to ensure that the EPBC Protected Matters database searches identify all potential receptors.

As such, the actual area that may be affected from any single spill event would be considerably smaller than that represented by the PEZ and EMBA. Example model outputs from individual spill events are available in the INPEX *Browse Regional OPEP Basis of Design and Field Capability Assessment Report* (refer to Table 8-10).

Deterministic modelling is a single spill simulation using one set of wind and weather conditions over time. Deterministic modelling runs are often paired with stochastic modelling to place the large stochastic footprint into perspective. Specific deterministic analysis or the use of a selection of worst case individual stochastic run(s) (selected from the stochastic analysis) are utilised as the basis for developing the response plans and field capability/equipment needs for a realistic spill response as described in the INPEX *Browse Regional OPEP*.

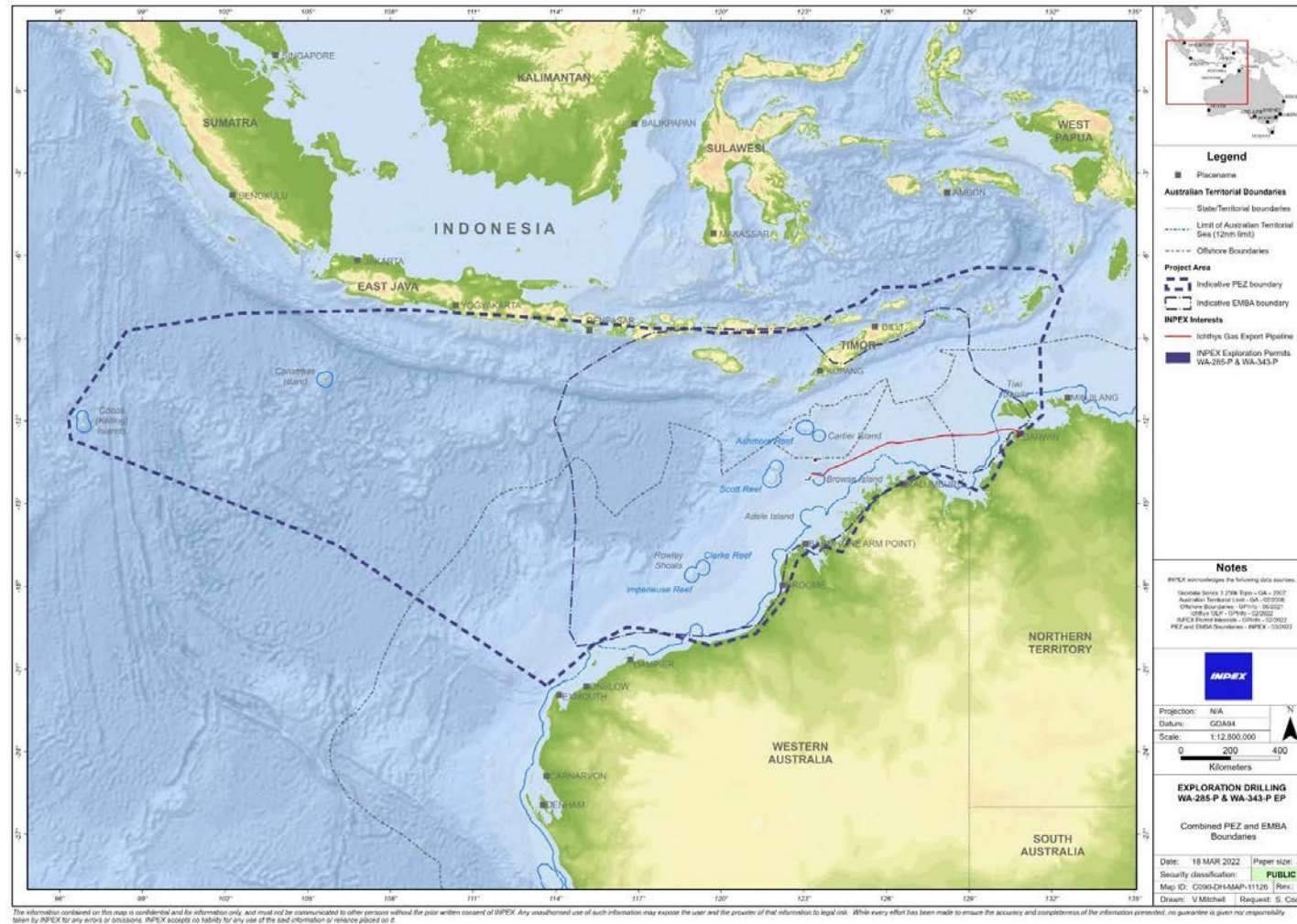


Figure 8-1: Combined PEZ and EMBA for all credible spill scenarios (300 overlaid stochastic modelling runs)

## 8.2 Loss of well containment

A worst-case loss of well containment leading to a Group I hydrocarbon loss (gas and condensate) could occur due to integrity failure resulting from any of the following:

- MODU loss of stability
- failure of primary and secondary well controls
- loss of well integrity.

The worst-case loss of containment scenarios in this EP conservatively assumes the wellbore is free from all restrictions, there are no restrictions at the wellhead and the hole section is fully drilled. APPEA guidance regarding worst-case discharge rates (used as an input for oil spill modelling) is based on there being no obstructions in the hole, so that the worst-case represents an unrestricted flow from an open hole – i.e. no pipe in hole and no BOP rams partially closed. However, this is unreasonable as in a scenario where there is no pipe in the hole, blind shear rams are highly effective and cannot be inhibited in closure or sealing by non-centred pipe. A feasible scenario is with pipe in the hole and a failure of the BOP rams (pipe and shear) to close and/or seal – in this case there will be a drilling assembly and pipe to the BOP creating an additional frictional loss.

Although not used for any predictive oil spill modelling, calculations of a more feasible scenario, where there is a restricted discharge flow rate (i.e. with a 5-7/8" drill pipe in the hole) and the flow path is assumed to be via annulus only, indicate a 43% reduction in flow rates confirming that the worst-case discharge used in this EP is highly conservative.

To establish the worst credible discharge rates from a well blowout, a transient simulation model (OLGA model) for each reservoir was used to determine the gas discharge rates before calculating the condensate discharge rates using condensate:gas ratios. The highest gas and condensate discharge rates and seabed gas temperatures were used in the model simulations in order to obtain credible worst-case results. A range of possible permeability sensitivities were also considered in order to derive a range of credible worst-case results. Reservoir inflow was subsequently calculated based upon pressure, temperature, thickness, porosity, permeability and productivity data.

It should also be noted that the proposed wells in WA-285-P and WA-343-P are exploration wells where the well design is vertical to confirm the presence of reservoir hydrocarbons. Based on this vertical well design, the sections of the well that intersect and are exposed to hydrocarbon bearing formations are relatively short in comparison to a production well design where exposure to the hydrocarbon containing formations are maximised to increase production rates by drilling laterally through the reservoir.

### 8.2.1 Location

The Brewster loss of well containment scenario was modelled from a release location within WA-285-P, approximately 40 km east of Browse Island and with a modelled release depth of 235 m (RPS 2021).

The Plover loss of well containment scenario was modelled from a release location within WA-343-P, approximately 80 km north of Browse Island and with a modelled release depth of 347 m (RPS 2022).

### 8.2.2 Volume and duration

The volume of Brewster condensate used in the modelling was 255,475 m<sup>3</sup>, based on an uncontrolled blowout with no restrictions within the well bore. The duration of the hydrocarbon release was 80 days (based on the time to complete a relief well / well-kill

operation). The overall duration of the modelled simulations was 108 days, to account for the fate of hydrocarbons after the well has been contained (RPS 2021).

The volume of Plover condensate used in the modelling was 99,705 m<sup>3</sup>, based on an uncontrolled blowout with no restrictions within the well bore. The duration of the hydrocarbon release was 115 days (based on the time to complete a relief well / well-kill operation). The overall duration of the modelled simulations was 129 days, to account for the fate of hydrocarbons after the well has been contained (RPS 2022). A well-kill for a Plover reservoir well blowout may be longer than that for a Brewster well, due to deeper reservoir depth and associated deeper relief well drilling requirements. However, because of differences in reservoir properties, the overall Plover release volume represents approximately 40% of the volume of a Brewster reservoir scenario.

### 8.2.3 Hydrocarbon properties

Hydrocarbon properties associated with the Group I Brewster and Plover condensate used for the modelling studies (RPS 2021; RPS 2022) are presented in Table 8-3.

Table 8-3: Group I condensate properties

Hydrocarbon type	Density at 15 °C (g/cm <sup>3</sup> )	Viscosity – centipoise (cP)	Characteristic	Volatile (%)	Semi-volatile (%)	Low volatility (%)	Residual (%)
			Boiling point (°C)	<180	180–265	265–380	>380
Brewster condensate	0.7640	1.200 @ 20°C	% of total	64.3	17.6	12.1	6.0
Plover condensate	0.8074	1.400 @ 25°C		47.0	29.0	20.0	4.0

### 8.2.4 Modelling results

A comparison of the Brewster and Plover spill modelling results is presented in Table 8-4. The Brewster modelling results can be considered as the WCSS with respect to a number of parameters including extent of floating oil at the sea surface, minimum time to shoreline contact, length of shoreline exposed, worst-case volume of oil on shoreline and worst-case concentrations/depths of entrained oil and dissolved aromatic hydrocarbons. On this basis, further discussion throughout this section of the EP is focussed on the Brewster modelling results presented in Table 8-5, Figure 8-2 and Figure 8-3.

The results of the OILMAP Deep simulation predicted that the subsea release will generate a cone of rising gas that will entrain the oil droplets and ambient sea water up to the water surface. The mixed plume is initially forecast to jet towards the water surface with a vertical velocity of around 8.9 m/s, gradually slowing and increasing in plume diameter as more ambient water is entrained. The diameter of the central cone of rising water and oil at the point of surfacing is predicted to be approximately 30.5 m. The results suggest that beyond the immediate vicinity of the blowout most of the released hydrocarbons will be present in the upper layers of the water column, with the potential for oil to form floating slicks under sufficiently calm local wind conditions.

Based on the discharge characteristics, the properties of the hydrocarbon and its expected weathering behaviour, floating oil will be susceptible to entrainment into the wave-mixed layer under typical wind conditions. Evaporation rates will be significant, given the high proportion of volatile and semi-volatile compounds in the oil (81.9%). The low-volatility fraction of the oil (12.1%) will take longer durations, of the order of days, to evaporate, and the residual fraction of 6% is expected to persist in the environment until slower degradation process occur.

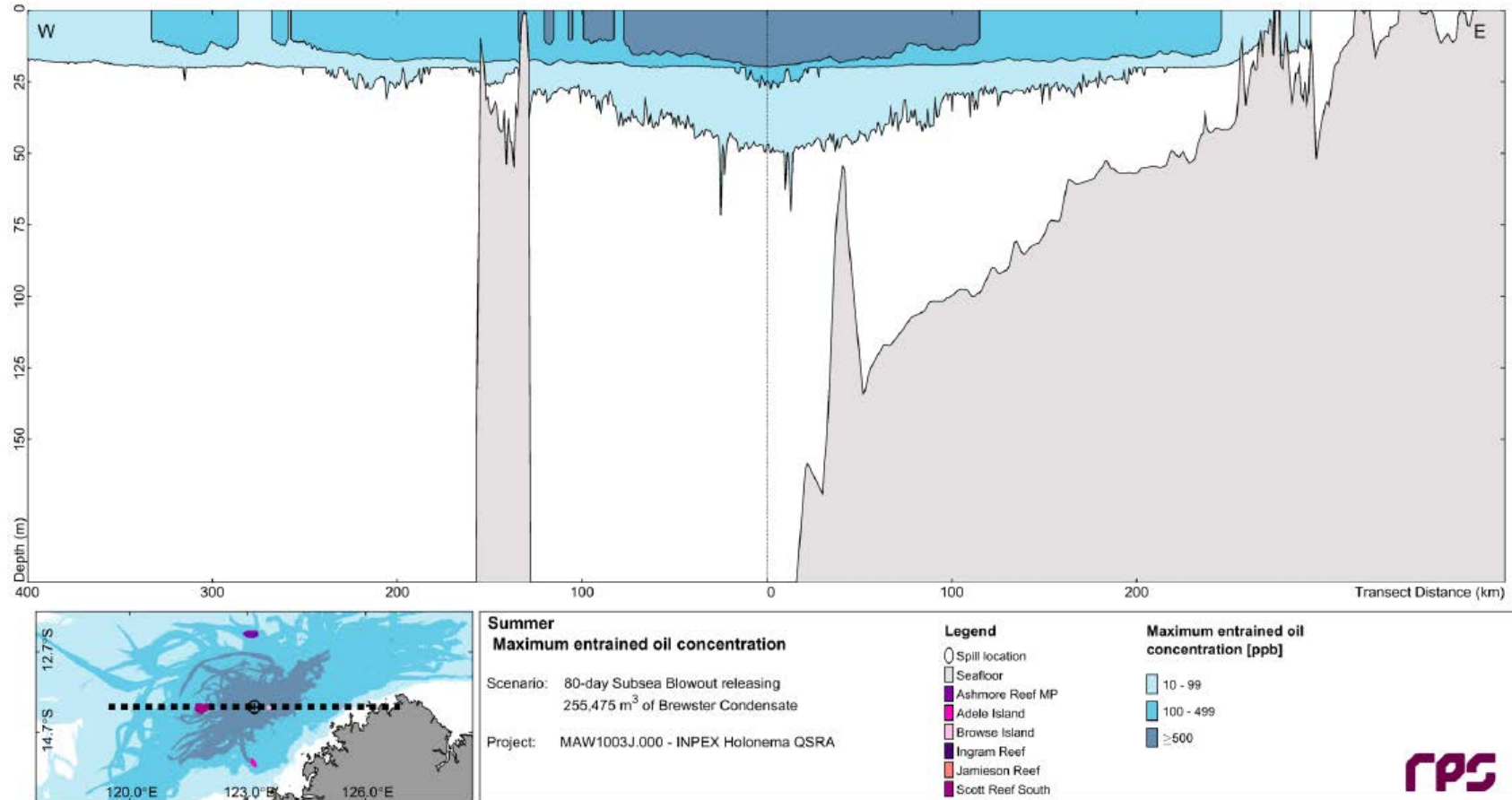
Table 8-4: Comparison of Brewster and Plover spill modelling results

Result	Brewster (RPS 2021)	Plover (RPS 2022)
Maximum lineal distance (km) floating oil >1g/m <sup>2</sup>	883	287
Maximum lineal distance (km) floating oil >10g/m <sup>2</sup>	263	91
Minimum time (days) to shoreline oil accumulation >10 g/m <sup>2</sup>	3 (67 hours)	5 (116 hours)
Minimum time (days) to shoreline oil accumulation >100 g/m <sup>2</sup>	3 (68 hours)	5 (123 hours)
Longest length (km) or number of segments of shoreline oiled >10 g/m <sup>2</sup>	158	137
Longest length (km) or number of segments of shoreline oiled >100 g/m <sup>2</sup>	27	13
Worst-case volume (m <sup>3</sup> ) of oil on shoreline >100 g/m <sup>2</sup> at any time	433	61
Worst-case concentration of entrained oil (ppb)	16,082	10,273
Maximum distance (km) of entrained oil >100 ppb	897	960
Maximum depth (m) of entrained oil >100 ppb	30	30
Worst-case concentration of dissolved aromatic hydrocarbons (ppb)	8,958	619
Maximum distance (km) of dissolved aromatic hydrocarbons >50 ppb	450	150
Maximum depth (m) of dissolved aromatic hydrocarbons >50 ppb	130	60

Table 8-5: Brewster spill modelling results summary (RPS 2021)

Hydrocarbon exposure	Summary of results
Surface	Concentrations of hydrocarbons at the sea surface, greater than the impact threshold of 10 g/m <sup>2</sup> are predicted to occur at distances of up to 263 km from the source.
Entrained/dissolved	<p>Entrained oil concentrations, greater than the impact threshold of 100 ppb were predicted to extend up to a maximum of 897 km from the source. Worst-case instantaneous entrained oil concentrations predicted were 16,082 ppb in the vicinity of the release location and 2,851 ppb at Browse Island.</p> <p>Other representative shallow receptors received the following worst-case entrained oil concentrations: Ashmore Reef (482 ppb), Cartier Island (313 ppb), Kimberley MP (1,802 ppb) Adele Island (654 ppb), Heywood shoal (840 ppb), Echuca shoal (52 ppb), Seringapatam Reef (662 ppb), Sandy Islet (447 ppb) and Scott Reef (655 ppb).</p> <p>Cross-sectional transects in the vicinity of the release site indicated that entrained oil concentrations at or greater than the 100 ppb threshold are not predicted to reach depths greater than approximately 30 m (Figure 8-2).</p> <p>Dissolved aromatic hydrocarbons, greater than the impact threshold of 50 ppb were predicted to extend up to approximately 450 km from the source. Worst-case dissolved aromatic hydrocarbon concentrations were calculated as 8,958 ppb in the vicinity of the release location and 3,376 ppb at Browse Island.</p> <p>Other representative shallow receptors received the following worst-case dissolved aromatic hydrocarbon concentrations: Ashmore Reef (439 ppb), Cartier Island (382 ppb), Kimberley MP (1,492 ppb) Adele Island (84 ppb), Heywood shoal (1,477 ppb), Echuca shoal (953 ppb), Seringapatam Reef (952 ppb), Sandy Islet (1,088 ppb) and Scott Reef (1,088 ppb).</p> <p>Cross-sectional transects in the vicinity of the release site indicated that dissolved aromatic hydrocarbon concentrations at or greater than the 50 ppb threshold are not predicted to reach depths greater than approximately 130 m (Figure 8-3).</p>
Shoreline	<p>Predicted highest potential volumes on shorelines, in the worst-case replicate included Browse Island (433 m<sup>3</sup>), Ashmore Reef (207 m<sup>3</sup>), shorelines in the North Kimberley MP (198 m<sup>3</sup>), Cassini Island (106 m<sup>3</sup>), Sandy Islet (62 m<sup>3</sup>), Cartier Island MP (55 m<sup>3</sup>) and the Bonaparte Archipelago (30 m<sup>3</sup>).</p> <p>Highest potential concentrations of oil on shore, through accumulation, were calculated as 19,262 g/m<sup>2</sup> (Browse Island), 3,636 g/m<sup>2</sup> (Sandy Islet), 3,195 g/m<sup>2</sup> (Cassini Island), 3,195 g/m<sup>2</sup> (North Kimberley MP), 3,182 g/m<sup>2</sup> (Ashmore Reef), 2,150 g/m<sup>2</sup> (Cartier Island) and 887 g/m<sup>2</sup> (Bonaparte Archipelago).</p> <p>In the worst-case replicate, the shortest elapsed time before exposure could occur at any shoreline was predicted as 68 hours for Browse Island. With other times to contact ranging from 221 hours (9 days) at Sandy Islet, 254 hours (11 days) at Cartier Island, 305 hours (13 days) at Ashmore Reef up to 1,409 hours (59 days) at the Bonaparte Archipelago.</p>

a)



b)

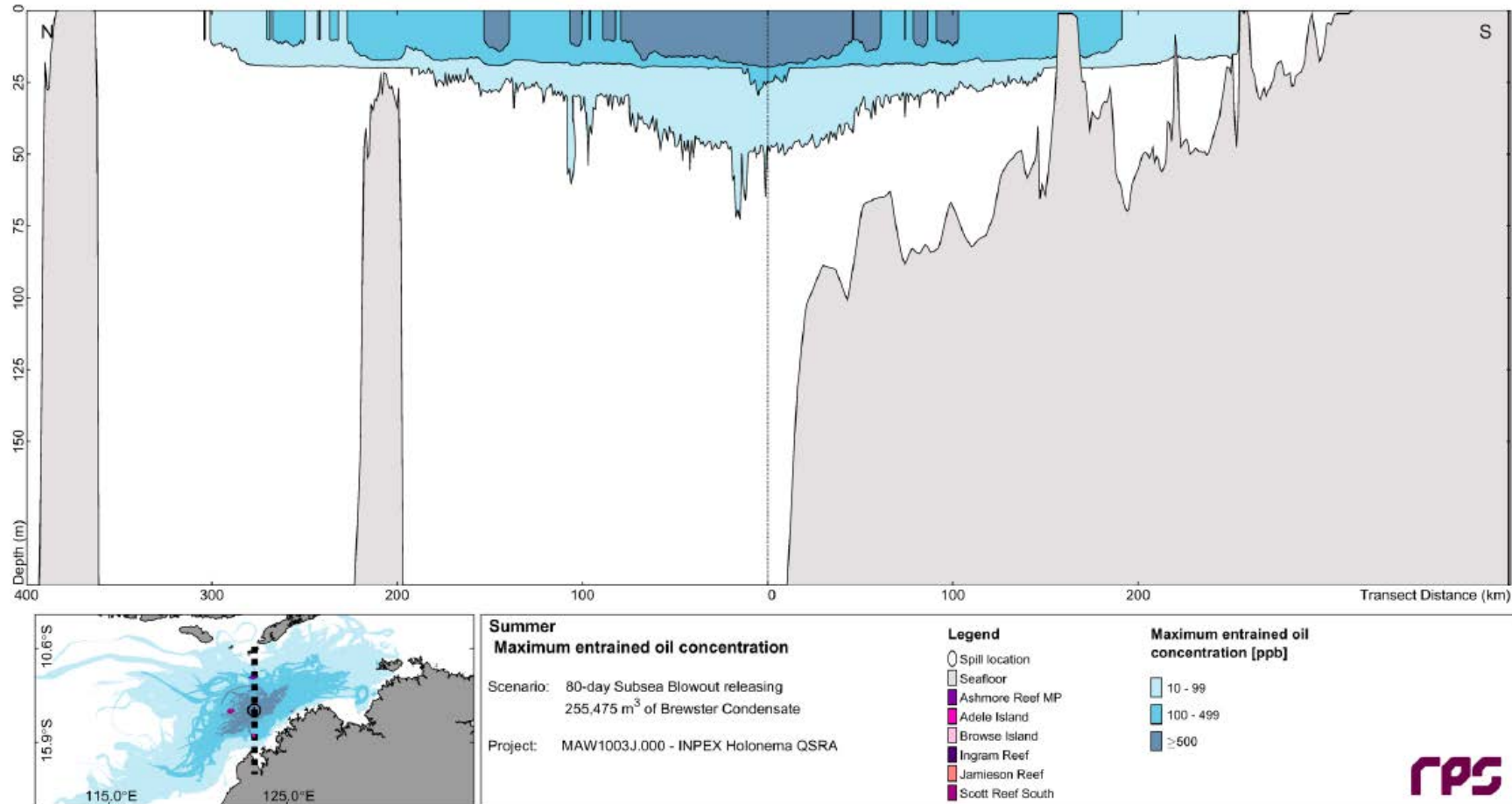
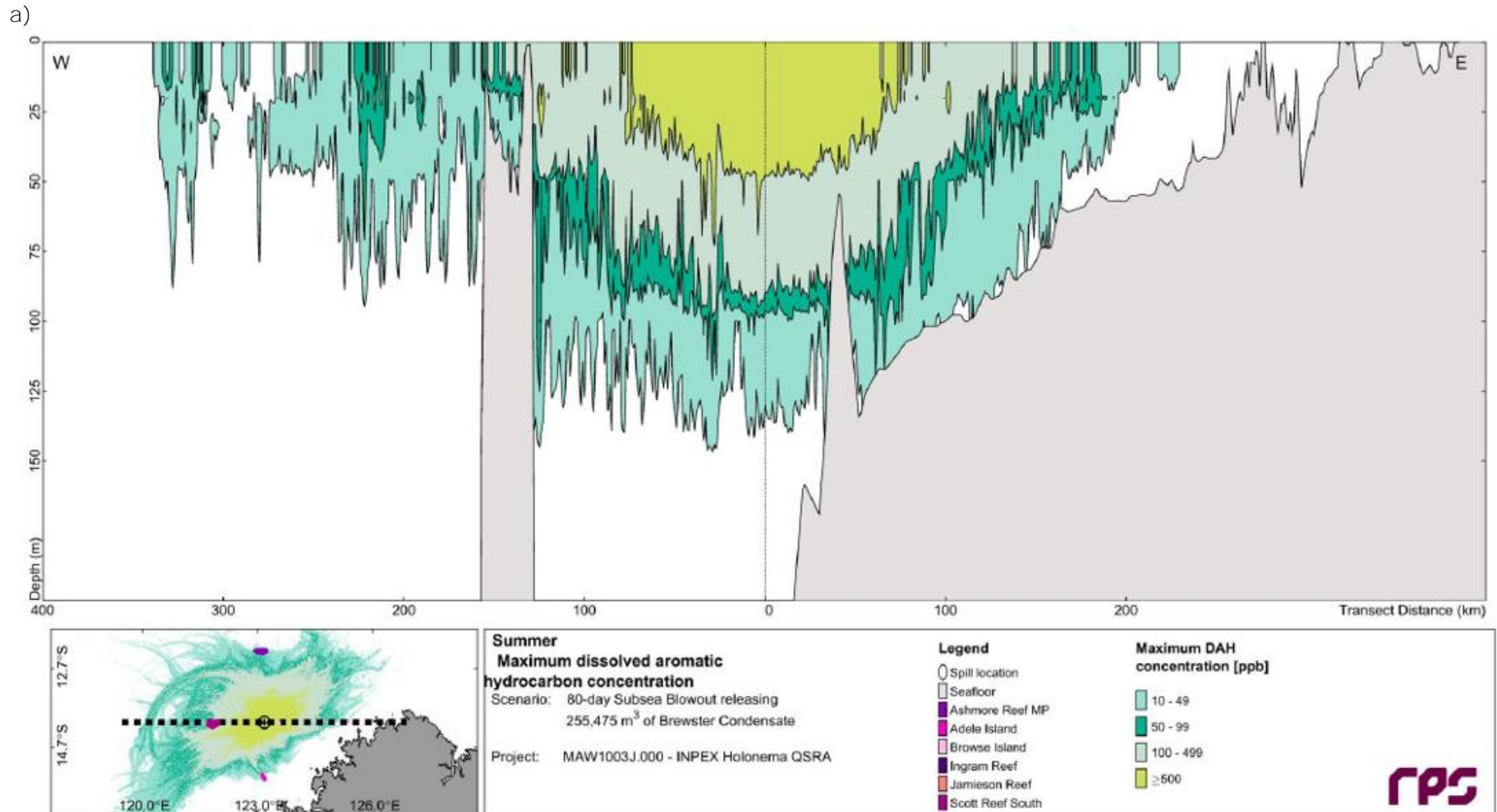


Figure 8-2: Cross-section transect of entrained hydrocarbons from a Brewster condensate blowout a) east-west (summer) b) north-south (summer)





b)

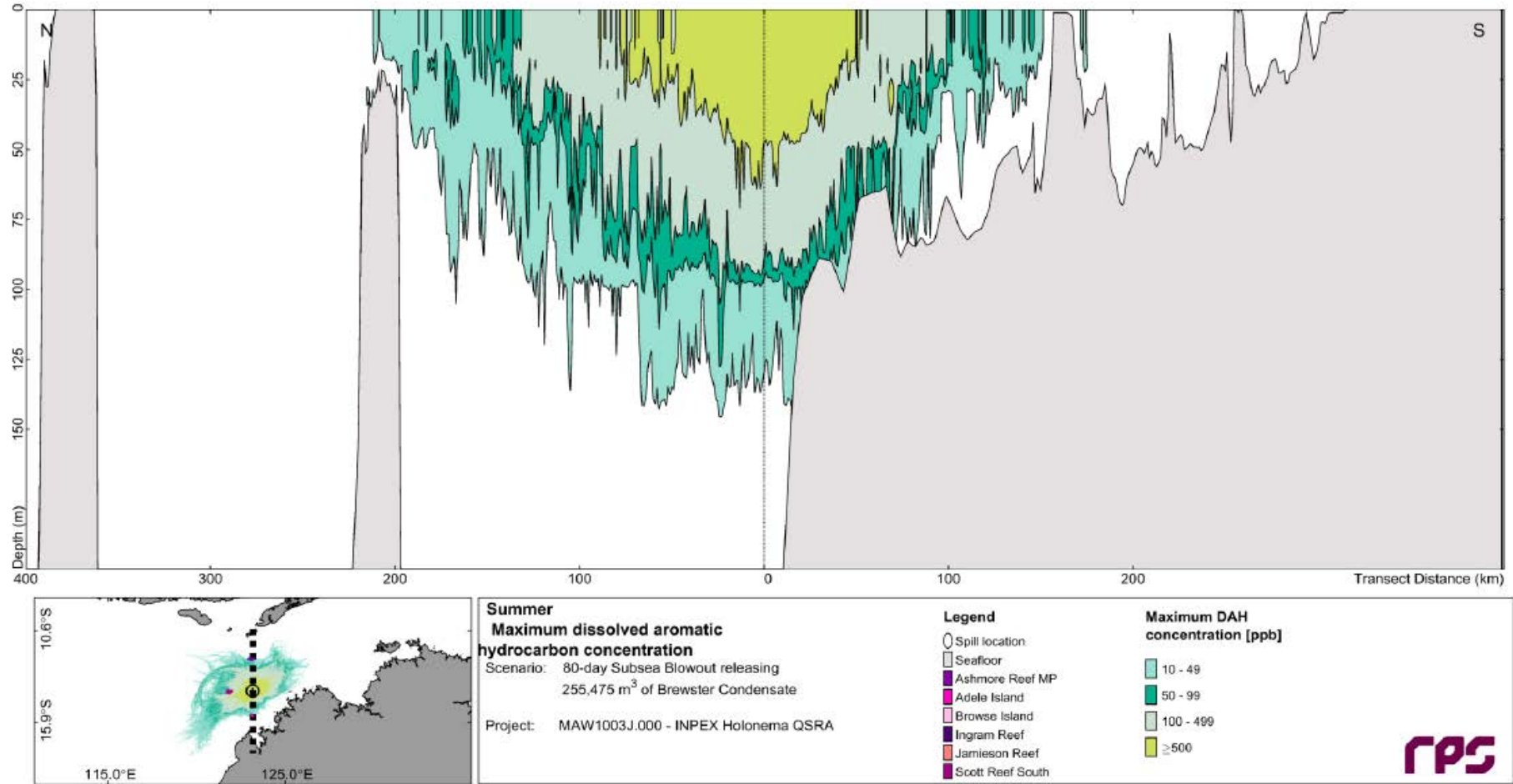


Figure 8-3: Cross-section transect of dissolved aromatic hydrocarbons from a Brewster condensate blowout a) east-west (summer) b) north-south (summer)

8.2.5 Impact and risk evaluation

Table 8-6: Impact and risk evaluation – Loss of well containment

Identify hazards and threats	
<p>A subsea release of Group I hydrocarbons from an exploration well, has the potential to result in changes to water quality through surface, entrained/dissolved, and shoreline hydrocarbon exposure. The thresholds for impacts associated with surface, entrained/dissolved, and shoreline hydrocarbon exposures are described in Table 8-2. The results of the predictive oil spill modelling for the loss of well containment scenarios are presented in Table 8-4, Table 8-5, Figure 8-1, Figure 8-2 and Figure 8-3.</p>	
Potential consequence – surface hydrocarbons	Severity
<p>The particular values and sensitivities with the potential to be exposed to surface hydrocarbon may include:</p> <ul style="list-style-type: none"> <li>• commercial, traditional and recreational fisheries including aquaculture and Aboriginal traditional use of resources (within approximately 883 km from the release location based on the visible sheen threshold)</li> <li>• Aboriginal heritage (within approximately 883 km from the release location based on the visible sheen threshold)</li> <li>• EPBC-listed species (within approximately 263 km from the release location based on 10 g/m<sup>2</sup> impact threshold).</li> <li>• planktonic communities (within approximately 263 km from the release location based on 10 g/m<sup>2</sup> impact threshold).</li> </ul> <p>Based on the properties of condensate (Group I) any slick forming at the sea surface following a subsea release will undergo rapid evaporation of volatile components during light wind conditions and rapid entrainment during increased wind conditions (RPS 2021). This will reduce the duration of any surface expression and potential for impacts to marine fauna at the sea surface.</p> <p>The values and sensitivities associated with aquaculture, commercial, traditional and recreational fisheries (seafood quality and employment) could be impacted by a visible sheen on the sea surface, as well as loss of access to undertake traditional activities such as ceremonies and the collection of food during certain seasons or at specific times of the year (refer to <i>Aboriginal seasonal calendars</i> section). Although the visible sheen is predicted to possibly extend up to 883 km from the release location it would not be a continuous surface expression. Exclusion zones may impede access to fishing and other culturally important areas for a short-to-medium term, and nets and lines could become oiled (ITOPF 2011). There is no evidence of any recreational fishing or Aboriginal traditional activities that occur within the permit areas because of the distances from land, lack of features of interest and deep waters. Recreational day-fishing is concentrated around the population centres of Broome, Derby and Wyndham, as well as other readily accessible coastal population settlements which are generally at the edge of, or outside of the PEZ, and therefore unlikely to be impacted by this type of spill.</p>	Moderate (D)

Commercial fisheries that transect the PEZ predominantly operate in the shallower waters of the PEZ, with generally low levels of fishing activity reported (refer to Section 4.12.1). Traditional fishing, particularly at Browse Island, Scott Reef and along the Kimberley coast at various IPAs including on intertidal reef platforms, could also be affected by impacts to fish and benthic habitats from entrained oil, discussed below. Based on the expected rapid weathering of condensate at the sea surface by evaporation, photo-oxidation and biodegradation and high potential for entrainment due to wave and wind action, any surface exposure is expected to be limited to a relatively short duration (RPS 2021). Therefore, impacts on commercial, recreational and traditional fishing (including Aboriginal traditional use of resources) and aquaculture are expected to be short to medium term, and the consequence is considered to be Minor (E).

Within the PEZ there are many coastal and island regions that have associated Aboriginal heritage values (Section 4.11.5). This includes a number of formally registered Aboriginal heritage sites, places and sacred sites. The PEZ also contains submerged historic landscapes with Aboriginal heritage values and culturally significant sites inhabited by ancestral beings that exist both in the physical and spiritual world. The connection to sea country could be impacted by a visible sheen on the sea surface through loss of access to culturally significant sites where fishing, hunting, rituals and other important cultural activities take place. Although the visible sheen is predicted to possibly extend up to 883 km from the release location it would not be a continuous surface expression and would be temporary due to the expected rapid weathering of condensate at the sea surface by evaporation, photo-oxidation and biodegradation and high potential for entrainment due to wave and wind action (RPS 2021). Therefore, it is considered that any loss of access may result in isolated community disruption with limited adverse impact on Aboriginal heritage values (Minor E).

There are no known marine fauna BIAs or aggregation areas that would result in sedentary behaviour in WA-285-P or WA-343-P. However, there are several marine fauna BIAs in areas predicted to be exposed to surface expressions above the 10 g/m<sup>2</sup> exposure threshold (within 263 km of the release location). These include a 20 km internesting buffer at Browse Island for green turtles, blue whale migration located approximately 75 km west of WA-285-P and 40 km west of WA-343-P, blue whale foraging at Scott Reef and the humpback whale migration corridor located 100 km south-east from WA-285-P. A range of other marine fauna may also be present within this area albeit on a transient basis.

As air-breathers, marine mammals, if they surface, are vulnerable to exposure to hydrocarbon spill impacts through the inhalation of evaporated volatiles. Effects include toxic effects, such as damage to lungs and airways, and eye and skin lesions from exposure to oil (WA DoT 2018). Vapours, if inhaled, have the potential to damage the mucous membranes of the airways and the eyes. Inhaled volatile hydrocarbons are transferred rapidly to the bloodstream and may accumulate in tissues, such as in the brain and liver, resulting in neurological disorders and liver damage (Gubbay & Earll 2000). Blue whales and humpback whales (baleen whales), that may filter feed near the surface, would be more likely to ingest oil than gulp-feeders, or toothed-whales and dolphins. Spilled hydrocarbons may also foul the baleen fibres of baleen whales, thereby impairing food-gathering efficiency, or resulting in the ingestion of hydrocarbons, or prey that has been contaminated with hydrocarbons (Geraci & St. Aubin 1988).

The outer extent of the green turtle internesting buffer at Browse Island overlaps the far north eastern boundary of WA-285-P (Figure 4-6) with the proposed well location in the south-west of the permit area approximately 40 km from Browse Island at its closest point (Figure 1-1). Turtles can be exposed to hydrocarbons if they surface within the spill, resulting in direct contact with the skin, eyes, and other membranes, as well as the inhalation of vapours or ingestion (Milton et al. 2003). Floating oil is considered to have more of an effect on reptiles than entrained/dissolved oil because reptiles hold their breath underwater and are unlikely to directly ingest dissolved oil (WA DoT 2018). Other aspects of turtle behaviour, including a lack of avoidance behaviour, indiscriminate feeding in convergence zones, and large, pre-dive inhalations, make them vulnerable (Milton et al. 2003; WA DoT 2018). In addition, hatchlings spend more time on the surface than older turtles, thus increasing the potential for contact with oil slicks (Milton et al. 2003).

A whale shark foraging BIA is located approximately 5 km from WA-285-P and approximately 10 km from WA-343-P at its closest point (Figure 4-7). Based on the levels of whale shark abundance observed in numerous studies (as described in Section 4.9.4), the likelihood of whale shark presence within this BIA is considered very low, with no specific seasonal pattern of migration.

The permit areas are located within the EAA Flyway. The migration of marine avifauna through the EAA Flyway generally occurs at two times of year, northward between March and May and southward between August and November (Bamford et al. 2008; DEE 2017b). There are no BIAs for marine avifauna that overlap WA-285-P or WA-343-P. Marine avifauna foraging BIAs associated with Ashmore Reef and Cartier Island provide the closest foraging habitat to either permit area with the outer boundary of the BIA located approximately 10 km north of WA-343-P at its closest point. The EMBA overlaps three Ramsar sites (Ashmore Reef, Eighty Mile Beach and Roebuck Bay) and several nationally important wetland sites. Additionally, the PEZ includes other Ramsar sites and nationally important wetlands (refer to Section 4.6), and there are a large number of BIAs for marine avifauna species present within the region (Figure 4-8). Marine avifauna have the potential to directly interact with hydrocarbons on the sea surface during normal foraging activities. Direct contact with surface hydrocarbons may result in dehydration, drowning and starvation and is likely to foul feathers, which may result in hypothermia (Matcott et al. 2019). Birds resting at the sea surface and surface-plunging birds are considered particularly vulnerable to surface hydrocarbons. Impacts may include damage to external tissues, including skin and eyes, and internal tissue irritation in lungs and stomachs (WA DoT 2018). Toxic effects may also result where hydrocarbons are ingested, as birds attempt to preen their feathers (Jenssen 1994; Matcott et al. 2019).

Based on the predicted limited extent of the surface hydrocarbons (approximately 263 km where concentrations are  $> 10 \text{ g/m}^2$ ), the rapid evaporation of volatile components and expected weathering resulting in reduced levels of toxicity, any impacts to transient EPBC-listed species are expected to be on a local to medium scale, with short to medium term impacts with no threat to the overall population of a protected species (Moderate D).

As a consequence of their presence close to the water surface, plankton may potentially be exposed to hydrocarbons on the sea surface. Based on the properties of condensate any visible hydrocarbon forming at the sea surface would undergo rapid evaporation of volatile components; therefore, reducing the duration of any potential exposure to fish eggs and larvae at the sea surface. However, the majority of impacts would be toxicity related, associated with entrained/dissolved hydrocarbons exposure. This is particularly the case in high energy seas where the vertical mixing of oil through the water column would be enhanced. Therefore, the impact evaluation for planktonic communities is provided in the entrained/dissolved hydrocarbons subsection below.

Potential consequence – entrained/dissolved hydrocarbons	Severity
<p>A subsea release of condensate due to an exploration well blowout in WA-285-P or WA-343-P could result in entrained hydrocarbons (&gt;100 ppb) potentially extending up to 960 km from the release location at depths of up to 30 m below sea level. Concentrations of dissolved aromatic hydrocarbons &gt;50 ppb may also extend over a wide area (approximately 450 km) at depths of up to 130 m below sea level. The values and sensitivities with the potential to be affected by entrained and dissolved aromatic hydrocarbon exposure include:</p> <ul style="list-style-type: none"> <li>• commercial, traditional and recreational fisheries including aquaculture and Aboriginal traditional use of resources</li> <li>• KEFs and associated biodiversity (fish communities, BIA - whale shark foraging)</li> <li>• benthic primary producer habitats / benthic habitats (corals, seagrasses and mangroves)</li> <li>• planktonic communities</li> <li>• EPBC-listed species (BIAs - marine mammals, turtles and avifauna)</li> <li>• underwater cultural heritage</li> </ul> <p>The values and sensitivities associated with commercial, traditional and recreational fisheries including aquaculture and Aboriginal traditional use of resources (seafood quality and employment) could be impacted due to entrained/dissolved oil. The impact to fish communities from exposure to entrained and dissolved hydrocarbons above threshold values, is primarily associated with toxicity resulting in impacts to seafood quality. Chronic impacts to juvenile fish and larvae may occur if exposed to entrained/dissolved hydrocarbon plumes potentially resulting in lethal or sub-lethal effects or impairment of cellular functions (WA DoT 2018). Juvenile fish and larvae may experience increased toxicity upon such exposure to plumes, because of the sensitivity of these life stages, with the worst impacts predicted to occur in smaller species (WA DoT 2018). Adult fish exposed to entrained hydrocarbons are likely to metabolise the hydrocarbons and excrete the derivatives, with studies showing that fish have the ability to metabolise petroleum hydrocarbons. These accumulated hydrocarbons are then released from tissues when fish are returned to hydrocarbon free seawater (Reiersen &amp; Fugelli 1987).</p> <p>Following a subsea release from a well blowout, the plume of gas/condensate will rise through the water column and become entrained in the upper layers of the water column (top 30 m) (Figure 8-2). Soluble aromatics components will dissolve as the plume rises through the water column, with concentrations &gt;50 ppb predicted in the top 130 m (Figure 8-3). Therefore, pelagic fish, and site attached fish on coral reefs, such as Heywood Shoal, Echuca Shoal, Ashmore Reef, Cartier Island and Browse Island, have the potential to be exposed to entrained/dissolved hydrocarbons above the 100 ppb and 50 ppb impact thresholds. Whereas demersal fish communities (such as the continental slope demersal fish community KEF which intersects both WA-285-P and WA-343-P) and fish associated with other KEFs or deeper benthic habitats are less likely to be exposed above impact thresholds in deeper waters.</p>	<p>Significant (C)</p>

A whale shark foraging BIA is located approximately 5 km from WA-285-P and approximately 10 km from WA-343-P at its closest point. Whale sharks reportedly spend 40% of their time in the upper 15 m of the water column and are therefore likely to be exposed to entrained and dissolved hydrocarbons. Potential effects to whale sharks include damage to the liver and lining of the stomach and intestines, as well as toxic effects on embryos (Lee 2011). As whale sharks are filter feeders they are expected to be highly vulnerable to entrained/dissolved hydrocarbons (Campagna et al. 2011).

The consequence of entrained/dissolved hydrocarbons on fisheries (commercial, recreational and traditional including aquaculture), fish and shark populations is considered to be Significant (C).

Benthic communities in the EMBA, including benthic primary producers, such as coral reefs, seagrass and mangroves, and deeper water filter-feeding communities could be exposed to entrained oil above impact thresholds (down to 30 m depth) and dissolved aromatic hydrocarbons (down to 130 m depth) which could result in a number of lethal or sub-lethal effects on these values and sensitivities. Shallow water communities are generally at greater risk of exposure than deep water communities (NRC 1985; WA DoT 2018). Exposure of shallow subtidal corals to entrained and dissolved hydrocarbons has the potential to result in lethal or sublethal toxic effects, resulting in acute impacts or death at moderate to high exposure thresholds (Loya & Rinkevich 1980; Shigenaka 2001; WA DoT 2018), including increased mucus production, decreased growth rates, changes in feeding behaviours and expulsion of zooxanthellae (Peters et al. 1981; Knap et al. 1985). Adult coral colonies, injured by oil, may also be more susceptible to colonisation and overgrowth by algae or to epidemic diseases (Jackson et al. 1989). A study by Nordborg et al. (2018) reported that the presence of ultraviolet radiation increases the hazard posed by dissolved hydrocarbons to tropical, shallow-water coral reefs due to phototoxicity. PAH phototoxicity occurs through the formation of radical oxygen species and/or transformation of PAHs into more toxic products. Therefore, co-exposure to ultraviolet radiation may considerably enhance negative impacts and the risks to coral larvae may be substantially underestimated in shallow-water tropical reef systems (Nordborg et al, 2018). Lethal and sublethal effects of entrained and dissolved oils have been reported for coral gametes at much lesser concentrations than predicted for adult colonies (Heyward et al. 1994; Harrison 1999; Epstein et al. 2000). Goodbody-Gringley et al. (2013) found that exposure of coral larvae to oil and dispersants negatively impacted coral settlement and survival, thereby affecting reef resilience.

Browse Island (closest shallow water receptor) is predicted to receive a concentration of entrained hydrocarbons of 2,851 ppb and dissolved aromatic hydrocarbons at 3,376 ppb; concentrations were predicted to be higher at the immediate release locations within WA-285-P and WA-343-P (RPS 2021; RPS 2022). Due to the proximity of some deep-water filter feeding communities, such as the 125 m ancient coastline KEF, Echuca Shoal and Heywood Shoal, and the prolonged exposure above impact thresholds that may be received at these locations, the potential consequence for coral reefs is considered to be Significant (C).

Entrained and dissolved hydrocarbons have the potential to affect seagrasses and macroalgae through toxicity impacts. The hydrophobic nature of hydrocarbon molecules allows them to concentrate in membranes of aquatic plants. Hence the thylakoid membrane (an integral component of the photosynthetic apparatus) is susceptible to oil accumulation, potentially resulting in reduced photosynthetic activity (Runcie & Riddle 2006). However, a layer of mucilage present on most species of seagrass prevents the penetration of toxic aromatic fractions (Burns et al. 1993). Although seagrass and macroalgae may be subject to lethal or sublethal toxic effects, including mortality, reduced growth rates, and impacts to seagrass flowering, several studies have indicated rapid recovery rates may occur even in cases of heavy oil contamination (Connell et al, 1981; Burns et al. 1993; Dean et al. 1998; Runcie & Riddle 2006). For algae, this could be attributed to new growth being produced from near the base of the plant while the distal parts (which would be exposed to the oil contamination) are lost. For seagrasses this may be because 50–80% of their biomass is in their rhizomes, which are buried in sediments, thus less likely to be adversely impacted by hydrocarbons (Zieman et al. 1984). It has been reported by Taylor & Rasheed (2011) that seagrass meadows were not significantly affected by an oil spill when compared to a non-impacted reference seagrass meadow. The majority of seagrass locations within the EMBA are distant from WA-285-P and WA-343-P, with the exception of Ashmore Reef (approximately 115 km north of WA-343-P). Therefore, the associated received concentrations of entrained and dissolved hydrocarbons will be lower; however, may still be above thresholds that could cause impact and the consequence is considered to be Minor (E) based on the expected rapid recovery.

Mangrove communities within the EMBA, present along WA, NT and international coastlines are also susceptible to entrained/dissolved hydrocarbon exposure, with potential impacts, including defoliation and mortality. A study by Duke (2000), on the use of dispersant on surface spills, resulting in an increase in the entrainment of oil showed a positive benefit to mangroves. Therefore, impacts of entrained/dissolved hydrocarbons on mangroves is expected to be less than the impacts predicted from surface oiling (Burns et al. 1993; Duke et al. 2000). Mangrove communities are distant from the permit areas and so the associated received concentrations would be lower; however, potentially still above the threshold that could cause impacts. Therefore, the consequence is considered to be Moderate (D).

Planktonic communities may be exposed to entrained/dissolved hydrocarbon plumes, especially in high energy seas where the vertical mixing of oil through the water column would be enhanced. The effects of oil on plankton have been well studied in controlled laboratory and field situations. The different life stages of a species often show widely different tolerances and reactions to oil pollution. Usually, eggs, larval and juvenile stages will be more susceptible than adults (Harrison 1999). Post spill studies on plankton populations are few, but those that have been conducted typically show either no effects, or temporary minor effects (Kunhold 1978). The lack of observed effects may be accounted for by the fact that many marine species produce very large numbers of eggs, and therefore larvae, to overcome natural losses (such as through predation by other animals; adverse hydrographical and climatic conditions; or failure to find a suitable habitat and adequate food). A possible exception to this would be if a shallow entrained/dissolved hydrocarbon plume were to intercept a mass, synchronous spawning event. Recently spawned gametes and larvae would be particularly vulnerable to oil spill effects, since they are generally positively buoyant and would also be exposed to surface spills. Hook & Osborn (2012) reported that typically, phytoplankton are not sensitive to the impacts of oil. Although phytoplankton are not sensitive to oil, they do accumulate it rapidly because of their small size and high surface area to volume ratio and can pass oil onto the animals that consume them (Wolfe et al. 1998a, 1998b). This is also applicable to zooplankton, that are reported to accumulate oil via the ingestion of phytoplankton. However, consumption of zooplankton by fish does not appear to be an efficient means of trophic transfer, perhaps because of the metabolism of oil constituents (Wolfe et al. 2001).



<p>Fish eggs and larvae, for example southern bluefin tuna or other species that spawn in surface waters of the EMBA, may potentially be exposed to hydrocarbons on the sea surface and entrained or dissolved within the upper water column. Eggs, larval and juvenile stages more susceptible than adults. These fish species such as southern bluefin tuna and other species, produce very large numbers of eggs, and therefore larvae, to overcome natural losses (such as through predation by other animals or adverse hydrographical and climatic conditions). Therefore, impacts to fish spawning are not expected to have detrimental impacts to commercial fish species stock levels. Under most circumstances, impacts to plankton at the sea surface is expected to be localised, with short term impacts; however, if a shallow entrained/dissolved plume reached a coral spawning location, such as Browse Island or Scott Reef, during a spawning event, localised short to medium term impacts could occur. Therefore, the consequence is considered to be Moderate (D).</p> <p>Marine mammals, marine reptiles and marine avifauna could also be impacted through entrained and dissolved hydrocarbon exposure, primarily through ingestion during foraging activities (WA DoT 2018). The EMBA overlaps three Ramsar sites (Ashmore Reef, Eighty Mile Beach and Roebuck Bay) and several nationally important wetland sites (Section 4.6). Several other marine fauna BIAs are predicted to be exposed to entrained and dissolved hydrocarbons above exposure thresholds. These include the 20 km internesting buffer at Browse Island for green turtles, blue whale foraging at Scott Reef, blue whale migration corridor located approximately 75 km west of WA-285-P and 40 km west of WA-343-P and the humpback whale migration corridor located 100 km south-east from WA-285-P. A range of other marine fauna may also be present within this area albeit on a transient basis. Small proportions of populations of protected species could be impacted by exposure to entrained and dissolved hydrocarbons, therefore the consequence is considered to be Moderate (D).</p> <p>Underwater cultural heritage within the PEZ, namely shipwrecks in proximity to Browse Island (Section 4.11.3), may be exposed to entrained and dissolved hydrocarbons from a subsea release of condensate. The deterioration of historic shipwrecks due to enhanced corrosion from oil-induced microbially induced corrosion (Mugge et al 2019), may not only lead to the loss of underwater cultural heritage but there may also be ecological repercussions from impacts to marine flora and fauna that have settled upon them (Salerno et al 2018). Following the Deepwater Horizon spill in the Gulf of Mexico in 2010, a study by Salerno et al (2018) indicated that exposure to oil and dispersant could disrupt the composition and metabolic function of biofilms colonising metal hulls, as well as corrosion processes, potentially compromising shipwrecks as ecological and historical resources.</p> <p>Within WA-285-P, the closest permit area to known shipwrecks associated with guano transport on Browse Island (wrecks dating from 1878-1887), the water depth is approximately 290 m. As shown in Figure 8-2 and Figure 8-3, upon release from the well location, entrained and dissolved hydrocarbons will rise up through the water column with exceedences of ecological impact thresholds limited to the top 30 m (entrained) and top 130 m (dissolved) of the water column. Direct contact and therefore potential for impacts to marine flora and fauna associated with any known shipwrecks on the seabed is not expected. Any impacts to underwater cultural heritage are considered to be minor and Insignificant (F).</p>	
<p>Potential consequence – shoreline hydrocarbons</p>	<p>Severity</p>
<p>As presented in Table 8-5 shoreline contact and accumulation of oil on shorelines was predicted at multiple locations within the EMBA at concentrations in excess of the 100 g/m<sup>2</sup> impact threshold. Indicative quantities of oil that could potentially accumulate on shorelines within the EMBA included but were not limited to:</p>	<p>Moderate (D)</p>

- Browse Island (433 m<sup>3</sup>)
- Ashmore Reef (207 m<sup>3</sup>)
- shorelines in the Kimberley MP (198 m<sup>3</sup>)
- Cassini Island (106 m<sup>3</sup>)
- Sandy Islet (62 m<sup>3</sup>)
- Cartier Island (55 m<sup>3</sup>)
- Bonaparte Archipelago (30 m<sup>3</sup>).

The minimum predicted time for shoreline contact was 68 hours (3 days) at Browse Island. In general, time to contact for other shorelines was in the order of 9 to 59 days. Given this time to reach shorelines, any surface release is expected to have weathered due to several physical and biological processes, such as evaporation of volatile/toxic components, photo-oxidation and biodegradation (Stout et al. 2016). Impacts to ecological receptors from exposure to weathered oil (waxy flakes and residues) are far less than those associated with exposure to fresh oils, which have higher levels of toxicity (Milton et al. 2003; Hoff & Michel 2014; Woodside 2014; Stout et al. 2016). Therefore, impacts from weathered oil are generally limited to smothering and coating associated with the waxy flakes and residues which generally have low levels of adhesion. Intertidal habitats and marine fauna known to use shorelines are most at risk from shoreline accumulations, due to smothering of intertidal habitats (such as emergent coral reefs) and coating of marine fauna (WA DoT 2018). Consequently, the particular values and sensitivities with the potential to be exposed to shoreline accumulated hydrocarbons are:

- benthic primary producer habitats/shoreline habitats (intertidal only)
- EPBC-listed species (BIAs - turtles and avifauna)
- Aboriginal heritage.

Benthic primary producer habitats exposed at spring low tides are the most vulnerable to smothering. However, as spills disperse, intertidal communities are expected to recover (Dean et al. 1998). Direct contact of hydrocarbons to emergent corals can cause smothering, resulting in a decline in metabolic rate and may cause varying degrees of tissue decomposition and death. A range of impacts may also result from toxicity, including partial mortality of colonies, reduced growth rates, bleaching, and reduced photosynthesis (Negri & Heyward 2000; Shigenaka 2001). The rate of recovery of coral reefs depends on the level or intensity of the disturbance, with recovery rates ranging from 1 or 2 years to decades (Fucik et al. 1984, French McCay 2009).

Three Ramsar sites (Ashmore Reef, Eighty Mile Beach and Roebuck Bay) and several nationally important wetlands are present within the EMBA (Section 4.6). These coastal sites generally include intertidal mudflats and mangroves that provide important foraging, resting and breeding habitats for migratory and shoreline bird species. As described for entrained and dissolved hydrocarbon exposure, mangrove communities within EMBA could potentially be exposed to shoreline oil accumulation above impact threshold concentrations, with potential impacts including defoliation and mortality (Burns et al. 1993; Duke et al. 2000). The recovery of mangroves from shoreline oil accumulation can be a slow process, due to the long-term persistence of oil trapped in anoxic sediments and subsequent release into the water column (Burns et al. 1993). The predicted times to contact for locations in the EMBA with mangrove communities is in the order of many days, therefore the shoreline accumulations are expected to be highly weathered and comprise of waxy flakes/residues. Lighter oils are reported to penetrate more deeply into mangrove forests than heavier and more weathered oils (Hoff & Michel 2014); therefore, it is considered that the weathered hydrocarbons will generally be less toxic in nature (Stout et al. 2016). Given the predicted times to contact and significant expected weathering of any hydrocarbons accumulating on shorelines, any impacts to benthic primary producer or intertidal habitats are expected to be localised and of short to medium term with a consequence of Moderate (D).

Marine reptiles, including turtles and crocodiles that utilise shoreline habitats can be exposed to hydrocarbons externally, through direct contact; or internally, by ingesting oil, consuming prey containing oil, or inhaling volatile compounds (Milton et al. 2003). Shoreline hydrocarbons can impact turtles at nesting beaches when they come ashore, with exposure to skin and cavities, such as eyes, nostrils, and mouths. Eggs may also be exposed during incubation, potentially resulting in increased egg mortality and detrimental effects on hatchlings. Hatchlings may be particularly vulnerable to toxicity and smothering, as they emerge from the nests and make their way over the intertidal area to the water (Milton et al. 2003). There are a number of foraging, nesting and internesting BIAs for turtles within the EMBA that have the potential to be exposed to shoreline accumulations above the impact threshold concentration (100 g/m<sup>2</sup>). Potential impacts may occur on nesting populations, which may affect species recruitment at a local population level particularly in relation to green turtles at Browse Island with a small, localised range of habitat (DEE 2017a). At locations with longer times for shoreline contact, there is a high potential for hydrocarbons to become more weathered. Weathered oil has been shown to have little impact on turtle egg survival, while fresh oil may have a significant impact (Milton et al. 2003). Given the modelling results (time to contact and predicted volumes on shorelines), there is the potential for local to medium scale impacts with medium term effects on nesting populations of turtles at individual nesting beaches/locations (Moderate D).

**Birds coated in hydrocarbons may suffer toxic effects where oil is ingested, either through birds' attempts to preen their feathers** (Jenssen 1994; Matcott et al. 2019) or ingested as weathered waxy flakes/residues present on shorelines. However, waxy residues are generally considered to be of lower toxicity (Stout et al. 2016; Woodside 2014). Shorebirds foraging and feeding in intertidal zones are at potential risk of exposure to shoreline hydrocarbons, potentially causing acute effects to numerous marine avifauna BIAs, and species present at Ramsar/wetland sites as described above. It is also possible that birds exposed to surface hydrocarbons may be displaced (i.e. fly away) and use nearby shorelines to recover, thereby, potentially increasing their exposure to shoreline hydrocarbons. In the event of shoreline contact following a loss of containment event from an exploration well in WA-285-P or WA-343-P, there is the potential for short-to-medium term impacts on the environment while local populations recover. It is not expected that the overall population viability for any protected species would be threatened. Therefore, the potential consequence associated with shoreline hydrocarbon exposure for EPBC-listed species is considered to be Moderate (D).

<p>In summary, the potential extent of shoreline accumulation (&gt; 100 g/m<sup>2</sup>) may result in exposure to the identified values and sensitivities. There would likely also be cumulative impacts as a result of interactions between surface, entrained/dissolved and shoreline hydrocarbon impacts on the food web and through bioaccumulation up the food chain potentially impacting a small portion of a population of protected species. On this basis, the potential consequence associated with shoreline accumulation from a loss of well containment is considered to be Moderate (D).</p> <p>As described in Section 4.11.5, the PEZ contains many coastal and island regions that have associated Aboriginal heritage values. Culturally significant sites where fishing, hunting, rituals and other important cultural activities take place could be affected if these locations have shoreline accumulations of oil which could result in a loss of access. The predictive modelling results presented in Section 8.2.4 and Figure 8-1 are based on multiple stochastic modelling runs and are therefore highly conservative. The actual area that may be affected from any single spill event would be considerably smaller than that represented by the PEZ and EMBA. Therefore, impacts associated with disruption and loss of access to culturally significant sites following a spill are expected to be limited, and potentially result in isolated community disruption (Minor E).</p>			
Identify existing design safeguards/controls			
<ul style="list-style-type: none"> <li>Conduct drilling in accordance with the OPGGS (Resource Management and Administration) Regulations 2011 and OPGGS (Safety) Regulations 2009 including a NOPSEMA accepted WOMP and MODU safety case.</li> </ul>			
Propose additional safeguards/control measures (ALARP evaluation)			
Hierarchy of control	Control measure	Used?	Justification
Elimination	None identified.	N/A	N/A
Substitution	None identified.	N/A	N/A
Engineering	Maintain well integrity throughout the well's lifecycle to avoid the requirement to implement source control.	Yes	<p>Controls to maintain well <b>integrity throughout the well's lifecycle will be in place as documented</b> in the NOPSEMA accepted WOMP. These will include but are not limited to:</p> <ul style="list-style-type: none"> <li>adherence to the drilling management system including in particular the well integrity standard, well design standard and well operations standard</li> <li>well design inputs such as hazardous gases, temperature and pore pressure and how these are used in well design</li> <li>barrier design, installation and verification</li> <li>drilling Technical Authorities</li> </ul>

			<ul style="list-style-type: none"> <li>• well integrity assurance activities</li> <li>• well design assurance activities</li> <li>• drilling fluid type and density selection and calculation of kick tolerance</li> <li>• cementing design, placement and verification</li> <li>• well abandonment design, execution and verification</li> <li>• risk management process including identification, analysis, evaluation, control, monitoring and review</li> <li>• management of change</li> <li>• use of performance standards in well construction including but not limited to well acceptance criteria</li> <li>• process safety management</li> <li>• the competency assurance process.</li> </ul> <p>Through implementation of such preventative controls, the potential for a release of hydrocarbon to the marine environment and the likelihood of shoreline contact and/or associated environmental impacts both nationally and internationally is reduced.</p>
Procedures and administration	Well Control Bridging Document, well integrity standard and well operations standard.	Yes	<b>The drilling Contractor’s Well Control Bridging Document, INPEX Well Integrity Standard and INPEX Well Operations Standard</b> covers all aspects of primary and secondary well control for drilling operations implemented to minimise the potential for a loss of well containment and reduce any impacts to the environment and the likelihood of shoreline contact both nationally and internationally by preventing a spill.
	Trained and competent personnel.	Yes	Adherence to the INPEX Competency Assurance and Management Standard (0000-AN-STD-60011) to ensure all personnel on the MODU and vessels will be competent to undertake their assigned positions, including, all critical drilling personnel comply with minimum well control training and oil spill response competency requirements.
	Implement Browse Regional OPEP	Yes	The INPEX Browse Regional OPEP defines the processes that will be used to maintain oil spill preparedness and implement effective response measures, in the event of a spill.  For this EP, an assessment of the well blowout WCSS against the Browse Regional OPEP Basis of Design has been conducted, as is required under BROPEP BOD/FCA, Figure 8-1 – management of change process.

			<p>The well blowout WCSS from this EP have been compared against the Browse Regional OPEP BOD response planning thresholds, (BROPEP BOD/FCA Table 4-4). The WA-285-P well blowout modelling data presented in Table 8-4 of this EP is the same modelling data presented in the Browse Regional OPEP BOD/FCA report Table 4-4. The WA-343-P well blowout modelling results, as shown in Table 8-4 of this EP, are lower than the response planning thresholds, as presented in the BROPEP BOD/FCA Table 4-4.</p> <p>Therefore, the two well blowout WCSS assessed under this EP are equivalent, or less than the WCSS defined in the Browse Regional OPEP BOD. As such, no revision to the spill preparedness/response arrangements defined in the Browse Regional OPEP are required.</p>
	Implement INPEX Source Control Capability & Arrangements	Yes	<p>The INPEX Source Control Capability &amp; Arrangements report provides a detailed source control capability analysis for the worst credible blowout scenario. It also provides an implementation strategy for source control arrangements and risk assessment, including management of change processes and compliance reporting requirements.</p>
Identify the likelihood			
Likelihood	<p>Given the design and mitigation controls that have been identified to minimise the potential for a loss of well containment the likelihood of the consequence occurring is considered Highly Unlikely (5).</p> <p>INPEX has conducted a drilling campaign risk assessment and maintains a risk register for current drilling operations, which determines the likelihood rating, and subsequently the residual risk, of a loss of well containment event against associated consequential factors including finance reputation, health and safety and environment. This process is verified by a quarterly risk review, which continues to assess any change to activities which may affect residual risk levels. Together these processes verify the likelihood level as <b>'High Unlikely'</b> (5).</p> <p>A suite of control measures that typically exceed industry well control and barrier standards have been implemented by INPEX for the exploration drilling activities covered in this EP and include:</p> <ul style="list-style-type: none"> <li>• the development and implementation of a Well Control Bridging Document for alignment and agreement on the systems and approach to be used for well control in operations</li> <li>• INPEX well control audits of drilling contractor equipment, systems and personnel via SMEs</li> <li>• major and minor (major accident event) barrier health checks which are in-depth reviews of well control related barriers including related performance standards</li> <li>• independent third-party inspection of well control equipment, systems, maintenance and testing</li> <li>• detailed INPEX quality audits of drilling contractor maintenance system including well control equipment</li> </ul>		

	<ul style="list-style-type: none"> <li>• enhanced conventional pit monitoring with multiple sensors per pit / solids control tanks</li> <li>• continuous fluid density in/out, gas in/out and temperature in/out monitoring available via mudlogging</li> <li>• connection flowback fingerprinting utilized as a standard practice</li> <li>• real time data from mudlogging available to Driller as well as Operator and Drilling Contractor site-based supervisor offices</li> <li>• application of the INPEX Drilling Behaviours throughout the campaign which create an open culture of speaking up and reporting bad news, avoiding rushing of tasks, not getting comfortable and being visible and actively present. Previous application of these behaviors has created a strong culture of effective well monitoring and control</li> <li>• rigorous management of change (MoC) process that includes a technical authority that is independent of direct well operations.</li> </ul> <p>The INPEX risk matrix describes associated likelihood timeframes, frequencies and probabilities (in line with historical industry and regional events); however, the introduction of these additional control measures, considered by INPEX to further reduce the likelihood, has resulted in a likelihood rating of Highly Unlikely (5).</p> <p>If concurrent drilling operations were to occur during the activity, up to two MODUs could be potentially operating (one in each permit are). In this case the likelihood of two well blowouts is deemed to be non-credible and with the above controls in place the likelihood of the consequence occurring is Remote (6).</p>	
Residual risk	Based on the worst-case consequence for all hydrocarbon exposure mechanisms (surface/entrained/dissolved/shoreline) Significant (C) and a likelihood of Highly Unlikely (5) the residual risk is ranked as Moderate (7).	
Residual risk summary		
Consequence	Likelihood	Residual risk
Significant (C)	Highly Unlikely (5)	Moderate (7)
Assess residual risk acceptability		
<p>Legislative requirements</p> <p>All reasonable means to minimise the likelihood of a loss of well containment occurring have been taken during the design and planning process for the exploration wells. Relevant Australian standards, codes of practice and industry best practice has been adopted to ensure well integrity is maintained. All activities will be undertaken in accordance with the OPGGS (Resource Management and Administration) Regulations 2011 and OPGGS (Safety) Regulations 2009. The controls are typical for the proposed activities and are appropriate for the NWS region.</p>		

#### Relevant person consultation

Relevant persons have been engaged throughout the development of the EP in 2022 and 2023, and where applicable the consequence assessment in this table of the EP has been revised and updated to reflect relevant person feedback. Where relevant, the controls in place and described above have been developed in consultation with relevant persons (**e.g. WA DoT, WA DBCA, AMSA and AMOSC**) **on an ongoing basis through consultation on INPEX's Browse regional OPEP**. The DCCEE Cultural Heritage Section, identified as a relevant person (Appendix B.6) provided additional information in relation to shipwreck locations in proximity to Browse Island and requirements of the *Underwater Heritage Act 2018*. Licence holders from the southern bluefin tuna fishery and members of industry association, Tuna Australia, raised a relevant matter with regard to potential impacts on tuna spawning and recruitment from the proposed activity (Appendix B.6). Upon receipt of this feedback, the consequence assessment presented in this table of the EP (entrained/dissolved) was revised and updated to include consideration of potential impacts to fish spawning with regards to their species of interest. Additionally, the consequence assessment in this table of the EP has been updated to assess aboriginal heritage values which were identified on several occasions as a relevant matter, raised during a number of consultation meetings between INPEX with Aboriginal relevant persons (Appendix B.6). During consultation with relevant persons, Traditional Owners from the Thamarrurr Development Corporation and Daly River/Port Keats Land Trust advised INPEX that turtle nesting occurs along their coastline. The Kenbi Rangers (Appendix B.6) also provided information on land use and access on the Cox Peninsula and Bynoe Harbour which included the location of sacred sites within the PEZ.

#### Conservation management plans / threat abatement plans

Several conservation management plans (refer Appendix A.2) identify oil spills as a key threatening process, through both direct and acute impacts of oil, as well as indirect impacts through habitat degradation (which is a potential consequence of an oil spill). The prevention of a loss of well containment and reducing impacts to the marine environment through oil spill response preparedness and response (refer INPEX *Browse Regional OPEP*) demonstrates alignment with the various conservation management plans.

#### ALARP summary

Given the level of environmental risk is assessed as Moderate, a detailed ALARP evaluation was undertaken to determine what additional control measures could be implemented to reduce the level of impacts and risks. No additional controls, beyond those identified during the detailed ALARP assessment can reasonably be implemented to further reduce the risk of impact.

#### Acceptability summary

Based on the above assessment, the proposed controls are expected to effectively reduce the risk of impacts to acceptable levels because:

- the activity demonstrates compliance with legislative requirements/industry standards
- the activity takes into account relevant person feedback
- the activity is managed in a manner that is consistent with the intent of conservation management documents
- the activity does not compromise the relevant principles of ESD
- the predicted level of impact does not exceed the defined acceptable level in that the environmental risk has been assessed as "moderate", the consequence does not exceed "C – significant" and the risk has been reduced to ALARP.



Environmental performance outcomes	Environmental performance standards	Measurement criteria
<p>No incidents of loss of hydrocarbons to the marine environment as a result of a loss of well containment</p>	<p>INPEX and MODU contractor will conduct drilling activities in accordance with the Offshore Petroleum and Greenhouse Gas Storage (Resource Management and Administration) Regulations 2011 and OPGGS (Safety) Regulations 2009 requirements, including:</p> <ul style="list-style-type: none"> <li>• a NOPSEMA accepted WOMP</li> <li>• a NOPSEMA accepted MODU safety case.</li> </ul>	<ul style="list-style-type: none"> <li>• WOMP acceptance letter received from NOPSEMA.</li> <li>• NOPSEMA acceptance of MODU safety case.</li> </ul>
	<p>INPEX will verify that the MODU contractor complies with the requirements of the approved Well Control Bridging Document which aligns requirements (and clarifies if conflicts exist, which standard takes precedence) between the INPEX Well Operations Standard (0000-AD-STD-60004) and Well Operations Manual (0000-AD-MAN-60002) which covers all aspects of primary and secondary well control for floating drilling operations, including:</p> <p>Well design/planning</p> <ul style="list-style-type: none"> <li>• Assessment of formation pressure and fracture gradient along the length of the well.</li> <li>• Shallow gas analysis and assessment has shown no potential for any shallow hazards.</li> <li>• Planned hydrostatic overbalance to stop ingress potential (i.e. inflow of formation fluids) into the well.</li> <li>• Kick tolerance – adequate design window to tolerate a kick of a certain volume and safe circulation out of the well.</li> <li>• Assessment of well control equipment requirements to ensure they are suitable and specific for well design, including subsea BOP stacks, well choke and kill systems.</li> <li>• Well-bore monitoring equipment – two independent systems for monitoring flow and volume from the well-bore shall be provided (by the drilling contractor and the mud logging contractor).</li> </ul>	<p>Well design/planning</p> <ul style="list-style-type: none"> <li>• Proposed well design, and comparison with <b>drilling contractor's equipment to ensure</b> minimum requirements are met and align with the INPEX Well Operations Manual (0000-AD-MAN-60002).</li> </ul> <p>BOP system</p> <ul style="list-style-type: none"> <li>• BOP pressure and function testing prior to installation and at regular intervals for the duration of drilling campaign while installed. The INPEX drilling supervisor or drilling engineer must approve BOP pressure tests and report appropriately.</li> <li>• Inspection and maintenance records show BOP meets INPEX requirements (e.g. shear ram capability, industry standard etc.) and maintained in accordance with MODU preventive maintenance system.</li> </ul> <p>Mud logging</p> <ul style="list-style-type: none"> <li>• Documentation that mud logging unit provides kick detection.</li> </ul>

	<p>BOP system</p> <ul style="list-style-type: none"> <li>• BOP installed in sections where there is potential for flow from the well.</li> <li>• BOP function and pressure tested prior to use and meets the requirements of the industry standard American Petroleum Institute (API) STD 53 Blowout Prevention Equipment Systems for Drilling Wells (4th edition, November 2012). The INPEX drilling supervisor or drilling engineer must approve BOP pressure tests in accordance with predetermined acceptance criteria.</li> <li>• The drilling contractor shall have a maintenance/inspection program for BOP control equipment which will align with the drilling <b>contractor's well control standard. The BOP will undergo weekly/fortnightly function and pressure testing.</b></li> <li>• BOP shall have a shear ram capable of shearing the drill pipe in use and sealing the well-bore.</li> <li>• Compliance with INPEX Well Integrity Standard (0000-AD-STD-60003) which requires two tested barriers to allow removal of the BOP.</li> </ul> <p>Mud logging</p> <p>The mud logging unit shall provide kick detection through the following:</p> <ul style="list-style-type: none"> <li>• continually manned (24 hrs) during all live, open hole well operation, with appropriate checks and calibration checks on key components</li> <li>• continuous recording of drilling operations, including mud flow out and pressure evaluation, with alarms in place to detect any significant changes.</li> </ul> <p>Well abandonment</p> <ul style="list-style-type: none"> <li>• INPEX will verify compliance with the WOMP which outlines the means by which the wells will be plugged and abandoned using a combination of verified barriers.</li> </ul>	<ul style="list-style-type: none"> <li>• Documentation demonstrates all issues identified, addressed or closed out. Summary of compliance with INPEX Well Integrity Standard (0000-AD-STD-60003) summarised in pre-start environmental audit and annual environmental audit report.</li> </ul> <p>Well abandonment</p> <ul style="list-style-type: none"> <li>• Compliance with INPEX Well Integrity Standard (0000-AD-STD-60003) and WOMP reported.</li> </ul>
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	<p>MODU and vessel personnel will demonstrate competence in accordance with the INPEX Competency Assurance and Management Standard (0000-AN-STD-60011).</p>	<p>Training records.</p>
<p>Refer to the INPEX <i>Browse Regional OPEP</i> for environmental performance outcomes, standards and measurement criteria related to mitigative controls.</p>		
<p>Refer to the INPEX <i>Source Control Capability &amp; Arrangements report</i> for environmental performance outcomes, standards and measurement criteria related to source control.</p>		

### 8.3 Vessel collision

#### 8.3.1 Location

Only vessels using marine diesel will be used during the petroleum activity. Spill modelling (APASA 2015) was undertaken for an instantaneous Group II hydrocarbon surface release of marine diesel at a location approximately 15 km north-north-west of Browse Island. The release point provides indicative information only as an exact location for a vessel collision cannot be predicted and is considered to be representative for a vessel collision spill scenario at either WA-285-P or WA-343-P.

#### 8.3.2 Volume and duration

AMSA guidance (AMSA 2015a) recommends that the maximum credible volume spill for a vessel collision scenario be based on the volume of the largest single fuel tank. A review of the expected tank sizes associated with the activity indicated the survey vessel largest tank size to be approximately 40 m<sup>3</sup>, and the MODU support vessels to be approximately 225 m<sup>3</sup>. Conservatively, the modelling of a 250 m<sup>3</sup> spill volume has been used (APASA 2015) with the spill modelled as an instantaneous release, with spill trajectory and fate tracked for 14 days.

#### 8.3.3 Hydrocarbon properties

Hydrocarbon properties associated with the Group II diesel used for the modelling study are presented in Table 8-7.

Table 8-7: Group II diesel properties

Hydrocarbon type	Density at 15 °C (g/cm <sup>3</sup> )	Viscosity – centipoise (cP) – at 40 °C	Characteristic	Volatile (%)	Semi-volatile (%)	Low volatility (%)	Residual (%)
			Boiling point (°C)	<180	180–265	265–380	>380
Diesel fuel oil	0.8291	4.0	% of total	6	34.6	54.4	5

#### 8.3.4 Modelling results

Modelling results are summarised in Table 8-8 and include results taken for three modelled seasons throughout the year: October to February (wet); May to July (dry); and March to April/August to September (transitional). For each season, 100 modelled replicates were run and therefore the results summarised represent 300 possible spill scenarios.

Under weak wind conditions, which will not generate breaking waves, the oil is predicted to float on the water surface, where it will be subject to evaporation and degradation (photochemical and biological). After the loss of approximately 40% of the mass over the first 48 hours, evaporation will slow considerably to account for a further 10% over the first week. About 20% of the mass is likely to be lost through decay, leaving approximately 30% of the mass as residual oil on the water surface.

Under stronger wind conditions that would generate breaking surface waves, approximately 70% of the oil is predicted to entrain in less than a day, which is forecasted to greatly reduce the volume floating on the surface and inhibit the evaporation of the oil. Under stronger wind conditions, 80% of the oil is predicted to entrain in the first few hours and only 20% of the mass is predicted to evaporate, with no further evaporation occurring while oil remains entrained.

Table 8-8: Vessel collision spill modelling results (APASA 2015)

Hydrocarbon exposure	Surface release of 250 m <sup>3</sup> marine diesel
Surface	<p>The maximum distance of floating hydrocarbon, at concentrations greater than 1 g/m<sup>2</sup> (visible sheen), travelled by a single spill trajectory (out of 300 simulations) was approximately 560 km from the release location during the transitional season. Distances travelled during dry and wet seasons were considerably less (140 km dry; 185 km wet).</p> <p>The maximum distance travelled by a single spill trajectory (out of 300 simulations) for floating hydrocarbons at concentrations &gt;10 g/m<sup>2</sup> (environmental impact threshold) were predicted to be approximately 140 km again during the transitional season. Distances travelled during dry and wet seasons were considerably less (55 km dry; 85 km wet).</p>
Entrained and dissolved	<p>Entrained oil &gt; 100 ppb is predicted to occur at distances up to approximately 245 km (dry), 335 km (wet) and 355 km (transitional) from the release location.</p> <p>The maximum entrained oil concentration was predicted as 3,896 ppb at the Ancient Coastline KEF, in the worst replicate (transitional).</p> <p>Other locations potentially exposed to entrained hydrocarbons include Browse island (2,207 ppb); Heywood Shoal (1,678 ppb); Echuca Shoal (1,576 ppb); Eugene McDermott Shoal (504 ppb); Vulcan Shoals (461 ppb); Scott Reef South (437 ppb); Barracouta Shoals (354 ppb); Woodbine Bank (222 ppb); Sahul Banks (273 ppb); and Cartier Island (205 ppb). These values represent worst single replicates from 300 modelled simulations. When averaged over all replicate simulations, the highest concentrations of entrained hydrocarbons were predicted at Ancient Coastline KEF (70 ppb), Browse Island (68 ppb) Echuca Shoal (35 ppb) and Heywood Shoal (24 ppb), all below the 100-ppb impact threshold.</p> <p>Exposure to dissolved hydrocarbons was predicted at several locations. The maximum exposure to dissolved hydrocarbons for the worst replicate simulation was Browse Island (54 ppb); Echuca Shoal (44 ppb) and Heywood Shoal (26 ppb). When averaged over all replicate simulations, exposure to dissolved hydrocarbons was predicted as &lt;1 ppb for all locations except Browse Island (2 ppb) and all below the 50-ppb impact threshold.</p>
Shoreline	<p>The potential for oil to accumulate over time on shoreline receptors was limited to two locations for all replicate simulations, these were Browse Island (3,315 g/m<sup>2</sup> in wet and transitional seasons) and Cartier Island (356 g/m<sup>2</sup> in wet season). These concentrations are based on highest maximum accumulations from 300 replicate simulations (worst-case single simulation). Highest average, local accumulations across all replicate seasons were calculated for Browse Island as 127 g/m<sup>2</sup>, exceeding the 100 g/m<sup>2</sup> impact threshold. The highest average, local accumulation at Cartier Island were 3.6 g/m<sup>2</sup> below the impact threshold.</p>

	<p>Minimum times for shoreline contact at Browse Island was 5 hours (by slicks <math>&gt;25 \text{ g/m}^2</math> during transitional season) and 229 hours at Cartier Island (by slicks <math>&gt;1 \text{ g/m}^2</math> during wet season). No contact was predicted at Cartier Island by slicks <math>&gt;10 \text{ g/m}^2</math> or <math>&gt; 25 \text{ g/m}^2</math> during all modelled seasons.</p> <p>Worst-case accumulated volumes of oil along shorelines at Browse Island were predicted to be <math>50.5 \text{ m}^3</math> (transitional season) and <math>3.4 \text{ m}^3</math> at Cartier Island (wet season).</p>
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8.3.5 Impact and risk evaluation

Table 8-9: Impact and risk evaluation – Vessel collision resulting in a Group II (diesel) spill

Identify hazards and threats	
<p>A surface release of Group II hydrocarbons has the potential to result in changes to water quality through exposure to hydrocarbons. The thresholds for impacts associated with surface, entrained/dissolved, and shoreline, hydrocarbon exposures are described in Table 8-2. The results of the predictive modelling for the vessel collision scenario are presented in Table 8-8.</p>	
Potential consequence – surface hydrocarbons	Severity
<p>The values and sensitivities with the potential to be affected by surface hydrocarbon exposure from a surface release due to a vessel collision include:</p> <ul style="list-style-type: none"> <li>• commercial, recreational and traditional fisheries including aquaculture and Aboriginal traditional use of resources (within 560 km from the release location based on 1 g/m<sup>2</sup> visible sheen threshold in worst-case)</li> <li>• Aboriginal heritage (within approximately 560 km from the release location based on the visible sheen threshold)</li> <li>• EPBC-listed species (within 140 km from the release location based on 10 g/m<sup>2</sup> impact threshold)</li> <li>• planktonic communities (within 140 km from the release location based on 10 g/m<sup>2</sup> impact threshold).</li> </ul> <p>As described in Table 8-6, commercial, recreational and traditional fisheries including aquaculture may be impacted by the presence of exclusion zones, loss of access to culturally important areas to undertake traditional activities and the oiling of nets and lines. The potential extent of the visible sheen associated with the vessel collision scenario is significantly less than for a loss of well containment scenario. There are low levels of commercial, recreational and traditional fishing or Aboriginal traditional activities in the permit areas, and no aquaculture (refer to Section 4.11.5 and 4.12.2). Any impacts are expected to be localised to within 560 km of the release location and temporary in nature given the expected evaporation and rapid dispersion of Group II hydrocarbons at the sea surface. Therefore, the consequence is considered to be Insignificant (F).</p>	<p>Minor (E)</p>

<p>Within the PEZ there are many coastal and island regions that have associated Aboriginal heritage values (Section 4.11.5). As described in Table 8-6, the connection to sea country could be impacted by a visible sheen on the sea surface through loss of access to culturally significant sites within 560 km of the release. Based on the expected weathering of diesel at the sea surface the presence of visible sheen would be relatively short-term in duration. Therefore, it is considered that any loss of access may result in minor impact on Aboriginal heritage values (Insignificant F). There are several marine fauna BIAs located in areas predicted to be exposed to surface expressions above the 10 g/m<sup>2</sup> exposure threshold (within 140 km of the release location). These include a 20 km internesting buffer at Browse Island for green turtles, blue whale foraging/migration located approximately 75 km west of WA-285-P and 40 km west of WA-343-P and the humpback whale migration corridor located 100 km south-east from WA-285-P. A range of other marine fauna may also be present within this area albeit on a transient basis. Impacts to EPBC-listed species are described in Table 8-6. Based on the predicted limited extent of the surface hydrocarbons (within 140 km where concentrations are &gt;10 g/m<sup>2</sup>, noting that the spill would not represent a continuous surface expression) and the rapid evaporation of volatile components and expected weathering resulting in reduced levels of toxicity, any impacts to EPBC-listed species are expected to be on a local scale, with short-term impacts on a small portion of the population of a protected species (Minor E).</p> <p>Plankton may potentially be exposed to hydrocarbons on the sea surface. However, the majority of impacts would be toxicity related, associated with entrained/dissolved hydrocarbons exposure. Therefore, the impact evaluation for plankton is provided in the subsection below.</p>	
<p>Potential consequence – entrained/dissolved hydrocarbons</p>	<p>Severity</p>
<p>The values and sensitivities with the potential to be affected by dissolved/entrained hydrocarbon exposures from a surface release due to a vessel collision are:</p> <ul style="list-style-type: none"> <li>• commercial, traditional and recreational fisheries and Aboriginal traditional use of resources (within 355 km from the release location)</li> <li>• KEFs, fish communities and whale shark BIA (within 355 km from the release location)</li> <li>• planktonic communities (within 355 km from the release location)</li> <li>• benthic communities (within 355 km from the release location)</li> <li>• EPBC-listed species including marine mammals, turtles, marine avifauna BIAs (within 355 km from the release location).</li> </ul> <p>Fishing grounds that overlap the permit area may potentially be exposed to entrained/dissolved hydrocarbons above impact thresholds. The impact to fish communities from exposure to entrained and dissolved hydrocarbons above threshold values, is primarily associated with toxicity resulting in impacts to seafood quality as described in Table 8-6. The level of effort in fisheries overlapping the permit areas is reported to be low, however for other fishing activities it is unknown. A surface release of diesel is expected to entrain predominantly within the upper water column (APASA 2015); therefore, exposure is considered to be relatively limited within the water column. Traditional fishing at Browse Island and along the Kimberley and NT coastlines and Aboriginal traditional use of resources, including on intertidal reef platforms, could be affected by impacts to fish and benthic habitats from dissolved/entrained oil, discussed below.</p>	<p>Moderate (D)</p>



Pelagic fish, and site attached fish on coral reefs, such as Heywood Shoal, Echuca Shoal and Browse Island, have the potential to be exposed to entrained hydrocarbons above the impact threshold (>100 ppb). Only Browse Island was predicted to exceed the dissolved hydrocarbons impact threshold (>50 ppb). Whereas demersal fish communities (such as the continental slope demersal fish community KEF) and fish associated with other KEFs or deeper benthic habitats are less likely to be exposed above impact thresholds in deeper waters. Impacts to fish from entrained/dissolved hydrocarbon exposure are described in Table 8-6. Given the highly mobile nature of pelagic fish, they are not expected to remain within entrained/dissolved hydrocarbon plumes for extended periods, and limited acute impacts or risks associated with the exposure are expected. However, a whale shark foraging BIA is located approximately 5 km from WA-285-P and approximately 10 km from WA-343-P at its closest point. Whale sharks reportedly spend 40% of their time in the upper 15 m of the water column and are therefore likely to be exposed to entrained and dissolved hydrocarbons. Potential effects to whale sharks include damage to the liver and lining of the stomach and intestines, as well as toxic effects on embryos (Lee 2011). As whale sharks are filter feeders they are expected to be highly vulnerable to entrained/dissolved hydrocarbons (Campagna et al. 2011). In the event that a spill from a vessel collision occurred during whale shark foraging activities, there is the potential for a small proportion of the population to be affected; however, as there are no whale shark aggregations (such as the Ningaloo Reef aggregation) and reported low abundance, the overall population viability is not expected to be threatened.

Site attached fish, such as reef fish within the EMBA may be exposed above the hydrocarbon exposure thresholds for a more extended duration. Therefore, local to medium scale, with short to medium term impacts could occur to site attached fish and sharks. As such, the consequence of entrained/dissolved hydrocarbons on fisheries (commercial, recreational and traditional), KEFs, fish and shark populations is considered to be Moderate (D).

The potential range of impacts of entrained/dissolved hydrocarbon exposure on planktonic communities is described in Table 8-6. Fish eggs and larvae, for example southern bluefin tuna or other species that spawn in surface waters of the EMBA, may potentially be exposed to hydrocarbons on the sea surface and entrained or dissolved within the upper water column. Eggs, larval and juvenile stages more susceptible than adults. These fish species such as southern bluefin tuna and other species, produce very large numbers of eggs, and therefore larvae, to overcome natural losses (such as through predation by other animals or adverse hydrographical and climatic conditions). Therefore, impacts to fish spawning are not expected to have detrimental impacts to commercial fish species stock levels. In the event of a vessel collision resulting in a diesel spill, impacts on plankton are expected to be highly localised, with short-term impacts, due to the limited exposure (upper water column). However, if a shallow entrained/dissolved plume reached a coral-spawning location, such as Browse Island or Scott Reef, during a spawning event, localised short-to-medium term impacts could occur. Therefore, the consequence is considered to be Minor (E).

Impacts to benthic communities from entrained and dissolved hydrocarbon exposure is described in Table 8-6. Browse Island (closest shallow water receptor) is predicted to receive a maximum concentration of 2,207 ppb entrained hydrocarbons and 54 ppb of dissolved aromatic hydrocarbons. Other deep-water filter feeding communities, such as the 125 m ancient coastline KEF, Echuca Shoal and Heywood Shoal are predicted to receive entrained hydrocarbon concentrations of 3,896 ppb, 1,576 ppb and 1,678 ppb respectively. Exposure to dissolved hydrocarbons was predicted to a lesser extent with concentrations of 70 ppb, 44 ppb and 26 ppb for 125 m ancient coastline KEF, Echuca Shoal and Heywood Shoal respectively. Therefore, the potential consequence for coral reefs is considered to be Moderate (D).

<p>EPBC-listed species including marine mammals, marine reptiles and marine avifauna could also be impacted through entrained and dissolved hydrocarbon exposure, primarily through ingestion during foraging activities as described in Table 8-6. The EMBA overlaps a large number of BIAs for a number of different marine fauna species (Section 4.9.4). Three Ramsar sites (Ashmore Reef, Eighty Mile Beach and Roebuck Bay) and several nationally important wetlands are also present within the EMBA (refer to Section 4.6), these sites provide important habitat for marine avifauna. Several other marine fauna BIAs are predicted to be exposed to entrained and dissolved hydrocarbons. These include the 20 km internesting buffer at Browse Island for green turtles, blue whale foraging/migration located approximately 75 km west of WA-285-P and 40 km west of WA-343-P and the humpback whale migration corridor located 100 km south-east from WA-285-P. A range of other marine fauna may also be present within this area albeit on a transient basis. Any entrained/dissolved plume would be spatially and temporally limited in extent and as such, impacts to EPBC-listed species are expected to be on a local scale, with short-term impacts on a small portion of the population of a protected species, with the consequence considered to be Minor (E).</p> <p>In summary, the potential extent of entrained/dissolved hydrocarbons with concentrations above impact thresholds may result in localised, short-term exposure to the identified values and sensitivities. There would likely also be cumulative impacts as a result of interactions between surface, entrained/dissolved and shoreline hydrocarbon impacts on the food web and through bioaccumulation up the food chain. On this basis, the potential consequence associated with entrained/dissolved plumes from the identified vessel collision scenarios is considered to be Moderate (D).</p>	
<p>Potential consequence – shoreline hydrocarbons</p>	<p>Severity</p>
<p>As summarised in Table 8-8, only Browse Island and Cartier Island were predicted to receive shoreline accumulations, and only Browse Island to exceed the 100 g/m<sup>2</sup> threshold (highest predicted concentration recorded as 127 g/m<sup>2</sup>). Times to contact ranged from 5 hours (Browse Island) to 229 hours (Cartier Island) and worst-case volumes predicted to be 50.5 m<sup>3</sup> (Browse Island) and 3.4 m<sup>3</sup> (Cartier Island).</p> <p>The particular values and sensitivities with the potential to be exposed to shoreline hydrocarbons are:</p> <ul style="list-style-type: none"> <li>• benthic primary producer habitats/shoreline habitats (intertidal only)</li> <li>• EPBC-listed species (BIAs - turtles and avifauna)</li> <li>• Aboriginal heritage.</li> </ul> <p>Given the limited range of predicted locations and expected weathering of any hydrocarbons accumulating on shorelines, any impacts to benthic and shoreline habitats (refer to Table 8-6), from a vessel collision event are expected to be localised and short term with a Minor consequence (E).</p> <p>Impacts to transient EPBC listed species, specifically marine turtles and avifauna (refer to Table 8-6) may include exposure to weathered diesel in excess of impact thresholds (100 g/m<sup>2</sup>) only at Browse Island. This may result in a minor and temporary impact on a small portion of the population of a protected species and the consequence assessed as Minor (E).</p>	<p>Minor (E)</p>

<p>No direct impact to culturally significant sites or Aboriginal heritage values are anticipated from a vessel collision scenario. Although worst-case predictive modelling estimated oil on shorelines (50.5 m<sup>3</sup> at Browse Island and 3.4 m<sup>3</sup> Cartier Island) these locations are located a considerable distance from mainland Australia, approximately 170 km and 290 km respectively at their closest points. There are no formally recognised Aboriginal heritage sites or places on Browse Island or Cartier Island (Appendix A.3) Therefore, any impacts on Aboriginal heritage values or disruption through loss of access to culturally important sites following a spill would be minor (Insignificant F).</p>			
<p>Identify existing design safeguards/controls</p>			
<ul style="list-style-type: none"> <li>• Vessels fitted with lights, signals, AIS transponders and navigation equipment as required by the <i>Navigation Act 2012</i>.</li> <li>• PSZ maintained around the MODU in accordance with the OPGGS Act</li> <li>• Ongoing relevant person consultation and notifications made to relevant persons as per Section 9.8.3 and Table 9-7.</li> </ul>			
<p>Propose additional safeguards/control measures (ALARP evaluation)</p>			
Hierarchy of control	Control measure	Used?	Justification
Elimination	Eliminate vessels.	No	Vessels are the only form of transport that can undertake the pre-drill site survey and maintain ongoing logistical support to the MODU in a fashion that is practical and cost efficient.
Substitution	Use only Group II (MGO) fuel oils, as opposed to Group IV (IFO 180 / HFO 380) fuel oils.	Yes	Limiting vessel selection to only vessels which use Group II fuel oils may require more detailed planning to avoid delays in sourcing appropriate available vessels. However, in the event of a vessel collision, marine gas oil (MGO) is less persistent than alternative heavier fuels such as heavy fuel oil (HFO) and intermediate fuel oil (IFO). Therefore, this control has been adopted.
Engineering	Drilling support vessels used will have dynamic positioning equipment.	Yes	The use of DP vessels to support the MODU and drilling activities will reduce the potential for vessel collisions. Supply vessels will also be equipped with a backup DP system as a failsafe (DP2 or greater).
	Pre-drill site survey vessel will have dynamic positioning equipment.	No	The survey vessel may not have DP capability; however, as the survey will be undertaken by a single vessel and will occur several months before the MODU arrives there is no credible vessel collision scenario within the permit areas.

Procedures and administration	Implement INPEX Browse Regional OPEP.	Yes	<p>The INPEX Browse Regional OPEP defines the processes that will be used to maintain oil spill preparedness and implement effective response measures, in the event of a spill.</p> <p>For this EP, an assessment of the vessel collision WCSS against the Browse Regional OPEP Basis of Design has been conducted, as is required under BROPEP BOD/FCA, Figure 8-1 – management of change process.</p> <p>The vessel collision WCSS from this EP have been compared against the Browse Regional OPEP BOD response planning thresholds, (BROPEP BOD/FCA Table 4-5). The vessel collision data presented in Table 8-8 of this EP, are lower than the response planning thresholds, as presented in the BROPEP BOD/FCA Table 4-5.</p> <p>Therefore, the vessel collision WCSS assessed under this EP is less than the vessel collision WCSS defined in the Browse Regional OPEP BOD. As such, no revision to the spill preparedness/response arrangements defined in the Browse Regional OPEP are required.</p>
	All vessels will use marine diesel and carry less than 250 m <sup>3</sup> of fuel in any single tank.	Yes	To ensure the impact and risk evaluation for a vessel collision spill remains relevant during the drilling campaign, vessels to be used during the activity will be limited to marine diesel fuel and have less than 250 m <sup>3</sup> of fuel in any single fuel tank.
Identify the likelihood			
Likelihood	<p>Reported industry statistics indicate vessel failures are considered rare with 37 collisions reported out of a total of 1,200 marine incidents in Australian waters between 2005 and 2012 (most recent data) (ATSB 2013).</p> <p>A ship collision risk assessment was undertaken to support the INPEX Ichthys Project. The study determined collision frequencies and impact energies for passing (third-party) vessels, infield vessels and offloading tankers. The annual frequency of a collision with a passing vessel – i.e. one not within the control of INPEX – imparting at least 150 megajoules (sufficient impact energy) is <math>3.5 \times 10^{-7}</math>, or once every 2.9 million years.</p> <p>On this basis and given the controls that have been identified to minimise the potential for vessel collision and subsequent loss of containment, the likelihood of the consequence occurring is considered Highly Unlikely (5).</p>		

	If concurrent drilling operations were to occur during the activity, including the ongoing Ichthys drilling campaign in nearby WA-50-L, an increase in vessel traffic could be expected. However, given the distance (tens of km) between any concurrently operating MODUS and the controls in place the likelihood of the consequence occurring is considered to be Highly Unlikely (5).	
Residual risk	Based on the worst-case consequence for all applicable hydrocarbon exposure mechanisms (surface, entrained and dissolved) Moderate (D) and a likelihood of Highly Unlikely (5) the residual risk is ranked as Moderate (8).	
Residual risk summary		
Consequence	Likelihood	Residual risk
Moderate (D)	Highly Unlikely (5)	Moderate (8)
Assess residual risk acceptability		
<p>Legislative requirements</p> <p>The activities and proposed management measures are compliant with industry standards and with relevant Australian legislation, specifically concerning navigational safety requirements, including AMSA Marine Orders – Part 30: Prevention of Collisions, Issue 8 (Order No. 5 of 2009).</p> <p>Relevant person consultation</p> <p>Relevant persons have been engaged throughout the development of the EP in 2022 and 2023, and where applicable the consequence assessment in this table of the EP has been revised and updated to reflect relevant person feedback. Where relevant, the controls in place and described above have been developed in consultation with relevant persons (e.g. WA DoT, WA DBCA, AMSA and AMOSC) on an ongoing basis through consultation on <b>INPEX’s Browse</b> regional OPEP (Appendix B.5. &amp; B.6). The controls in place are considered to manage risks associated with a vessel collision to ALARP. During relevant person consultation AMSA requested that all relevant notifications be adopted as controls in this EP and therefore, these requirements have been adopted. AMSA also identified that lighting of vessels should be consistent with the requirements of the COLREGS requirements. All vessels are required to comply with the <i>Navigation Act 2012</i>, and associated Marine Orders, which are consistent with the COLREGS requirements. Licence holders from the southern bluefin tuna fishery and members of industry association, Tuna Australia raised a relevant matter with regard to potential impacts on tuna spawning and recruitment from the proposed activity (Appendix B.6). Upon receipt of this feedback, the consequence assessment presented in this table of the EP (entrained/dissolved) was revised and updated to include consideration of potential impacts to fish spawning with regards to their species of interest. Additionally, the consequence assessment in this table of the EP has been updated to assess aboriginal heritage values which were identified on several occasion as a relevant matter, raised during a number of consultation meetings between INPEX with Aboriginal relevant persons (Appendix B.6). During consultation with relevant persons, Traditional Owners from the Thamarrurr Development Corporation and Daly River/Port Keats Land Trust advised INPEX that turtle nesting occurs along their coastline.</p> <p>Conservation management plans / threat abatement plans</p>		

Several conservation management plans (refer Appendix A.2) identify oil spills as a key threatening process, through both direct/acute impacts of oil, as well as indirect impacts through habitat degradation (which is a potential consequence of an oil spill). The prevention of vessel collisions and reducing impacts to the marine environment through oil spill response preparedness and response (refer INPEX *Browse Regional OPEP*), demonstrates alignment with the various conservation management plans.

ALARP summary

Given the level of environmental risk is assessed as Moderate, a detailed ALARP evaluation was undertaken to determine what additional control measures could be implemented to reduce the level of impacts and risks. No additional controls, beyond those identified during the detailed ALARP assessment can reasonably be implemented to further reduce the risk of impact.

Acceptability summary

Based on the above assessment, the proposed controls are expected to effectively reduce the risk of impacts to acceptable levels because:

- the activity demonstrates compliance with legislative requirements/industry standards
- the activity takes into account relevant person feedback
- the activity is managed in a manner that is consistent with the intent of conservation management documents
- the activity does not compromise the relevant principles of ESD
- the predicted level of impact does not exceed the defined acceptable level in that the **environmental risk has been assessed as "low", the consequence does not exceed "C – Significant" and the risk has been reduced to ALARP.**

Environmental performance outcomes	Environmental performance standards	Measurement criteria
No incidents of loss of hydrocarbons to the marine environment as a result of a vessel collision.	MODU/vessels will be fitted with lights, signals, AIS transponders and navigation and communications equipment, as required by the <i>Navigation Act 2012</i> .	Records confirm that required navigation equipment is fitted to MODU/vessels to ensure compliance with the <i>Navigation Act 2012</i> .
	A 500 m PSZ, issued by NOPSEMA, will be maintained around the MODU.	Gazette notice of PSZ. Records of reporting of unauthorised entry into the PSZ.
	Only vessels using Group II/MGO/marine diesel will undertake activities described in this EP.	Vessel selection records.
	Drilling support vessels used will have dynamic positioning equipment and have a backup DP system as a failsafe.	Records confirm that vessel have DP equipment and fail-safe system in place.

	<p>All vessels will utilise only marine diesel fuel and the maximum volume of fuel contained in any tank will not exceed 250 m<sup>3</sup>.</p>	<p>Oil record books.</p>
<p>Refer to the INPEX <i>Browse Regional OPEP</i> for environmental performance outcomes, standards and measurement criteria related to mitigative controls.</p>		

## 8.4 Oil spill response and capability

INPEX has developed a regional OPEP for the Browse region which applies to the activity described in this EP. The INPEX Browse Regional OPEP (BROPEP) consists of a suite of documents as shown in Figure 8-4 and described in Table 8-10. The INPEX Browse Regional OPEP **covers all INPEX Australia's exploration and production activities in the Browse region.**

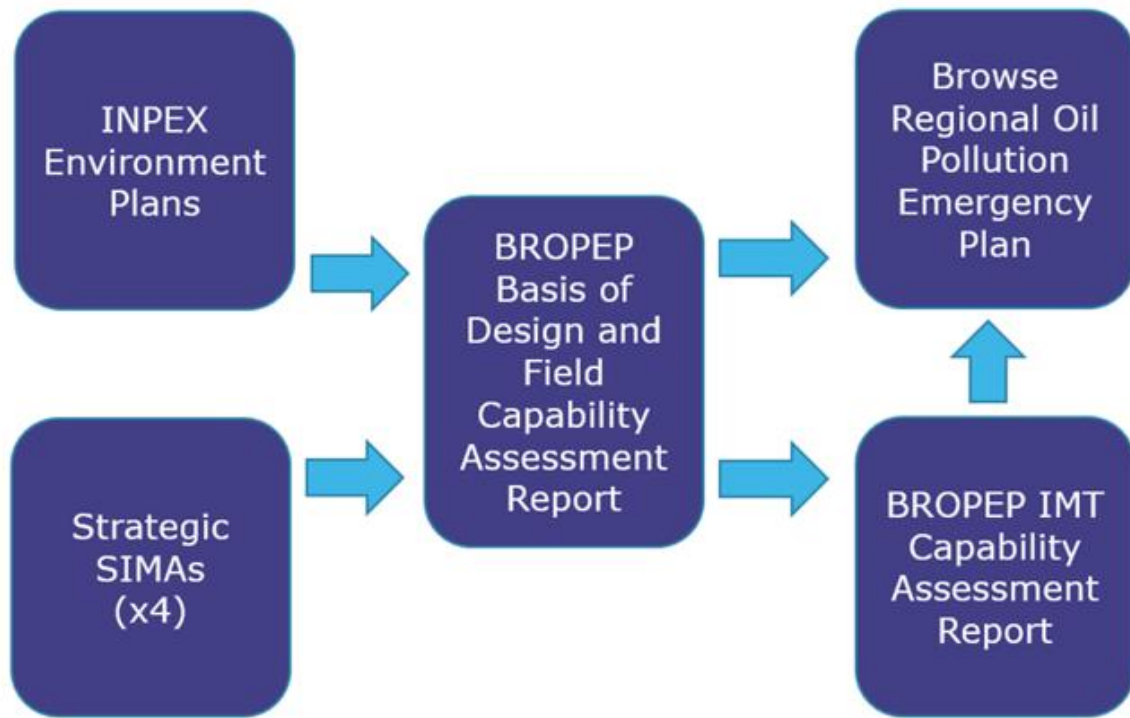


Figure 8-4: Browse regional OPEP document structure

Table 8-10: Browse regional OPEP documentation overview

Document title	Document number	Purpose
INPEX Environment Plans	N/A	<p>All INPEX EPs contain a detailed activity description and activity-specific oil spill scenarios. Specifically, INPEX EPs include the following:</p> <ul style="list-style-type: none"> <li>• a description of the activity-specific spill scenarios (including the potential release rates, volumes, locations, hydrocarbon types, etc.)</li> <li>• activity-specific oil spill modelling (used to inform environmental risk assessments)</li> <li>• an assessment of oil spills risks/impacts on environmental values and sensitivities</li> </ul>



Document title	Document number	Purpose
		<ul style="list-style-type: none"> <li>evaluations of controls to prevent oil pollution from the specific activity.</li> </ul> <p>The WCSS from all INPEX EPs are included in the INPEX Australia - Browse Regional Oil Pollution Emergency Plan - Basis of Design and Field Capability Assessment.</p>
<p>Strategic Spill Impact Mitigation Assessments (SIMAs):</p> <p>Condensate spill – instantaneous surface release</p> <p>Marine gas oil/diesel spill – instantaneous surface release</p> <p>Intermediate fuel oil/heavy fuel oil (HFO) spill – instantaneous surface release</p> <p>Condensate/gas well or pipeline blowout – long duration subsea release.</p>	<p>X060-AH-LIS-60031</p> <p>X060-AH-LIS-60032</p> <p>X060-AH-LIS-60033</p> <p>X060-AH-LIS-60034</p>	<p>The four INPEX Strategic SIMA documents are pre-spill planning tools. These are used to facilitate response option selection by identifying and comparing the potential effectiveness and impacts of the various oil spill response strategies on a range of environmental values and sensitivities.</p> <p>The Strategic SIMAs utilise a semi-quantitative process to evaluate the impact mitigation potential of each response strategy. This method provides a transparent decision-making process for determining which response strategies are most likely to be effective at minimising oil spill impacts. The SIMA process includes environmental considerations as well as a range of shared values such as ecological, socio-economic and cultural aspects.</p>
INPEX Australia - Browse Regional Oil Pollution Emergency Plan - Basis of Design and Field Capability Assessment (BROPEP BOD/FCA)	X060-AH-REP-70016	<p>The BROPEP BOD/FCA presents an overview of all of <b>INPEX Australia's offshore petroleum</b> exploration and production activities and associated oil spill risks. It includes an evaluation of modelling outcomes from a series of selected WCSSs and presents an oil spill response field capability analysis.</p> <p>The BROPEP BOD/FCA includes the EPOs and EPSs relevant to the preparedness and environmental risk assessment of field response capability and arrangements and the broader BROPEP implementation strategy (i.e. reviews, management of change process, etc.).</p>
INPEX Australia - Browse Regional Oil Pollution Emergency Plan – Incident Management Team Capability Assessment (BROPEP IMTCA)	X060-AH-REP-70015	The BROPEP IMTCA utilises the field capability assessments as inputs to evaluate the size and structure of the INPEX IMT necessary to mobilise and maintain the field capability. The BROPEP IMTCA outlines the EPOs and EPSs relevant to INPEX incident management team (IMT) capability and arrangements.

Document title	Document number	Purpose
INPEX Australia - Browse Regional Oil Pollution Emergency Plan (BROPEP)	X060-AH-PLN-70009	<p>The BROPEP is the tool which will be utilised by the INPEX IMT during any impending/actual oil spill event. This document assists/guides the IMT through the process of notifications, gaining/maintaining situational awareness, response strategy evaluation and incident action plan development, and mobilisation of field response capabilities.</p> <p>The BROPEP outlines the EPOs and EPSs related to the implementation of response strategies.</p>

An assessment of the WCSS defined in this EP has been conducted against the Browse Regional OPEP BOD, within the ALARP evaluations of the WCSS. Refer to Table 8-6 and Table 8-9.

The outcome of this assessment was that no change is required to the spill preparedness/response arrangements defined in the Browse Regional OPEP for the petroleum activity covered under this EP.

## 8.5 Source control capability and arrangements

Source control capability and arrangements required to conduct a successful well-kill for exploration and production wells in the Browse Basin **is detailed in INPEX's Source Control Capability and Arrangements Report (D021-AH-REP-70000)**. This document also provides the environmental ALARP and acceptability statements and implementation strategy, to ensure the ongoing demonstration of source control capability and arrangements.

An overview of source control documentation is provided in Table 8-11 and the purpose of the Source Control Capability and Arrangements Report is to:

- Present a summary of INPEX Australia's **exploration and production** drilling, and operations activities in the Browse Basin.
- Present a summary of the worst credible well blowout scenarios (WCWBS) which could occur from exploration/production drilling activities and from the operation of production wells.
- Provide a detailed source control capability analysis, for the selected WCWBS.
- Define EPOs and EPSs for the source control capabilities and arrangements (preparedness), and the risk assessment of the implementation of the source control capability.
- Provide an implementation strategy for this source control arrangements and risk assessment report, including management of change processes and compliance reporting requirements.
- **Ensure INPEX's description of source control capability and arrangements** as related to EPs is appropriately described, in accordance with the requirements of Section 3.1 of the NOPSEMA *Source control planning and procedures* Information Paper (NOPSEMA 2021).

Table 8-11: Source control documentation overview

Document title	Document number	Purpose
INPEX Environment Plans	N/A	All INPEX EPs contain a detailed activity description and activity-specific oil spill scenarios. Specifically, INPEX EPs include the following: <ul style="list-style-type: none"> <li>a description of the activity-specific spill scenarios (including the potential well blowout release rates, volumes, locations, hydrocarbon types, etc.)</li> <li>activity-specific oil spill modelling (used to inform environmental risk assessments)</li> <li>an assessment of oil spills risks/impacts on environmental values and sensitivities</li> <li>evaluations of controls to prevent well blowouts.</li> </ul>
Well Operations Management Plan	N/A	The WOMP describes the well activities and associated management systems for the exploration wells within the permit areas.
INPEX Blowout Contingency Plan (BOCP)	D020-AD-PLN-10040	The purpose of the BOCP is to provide a plan for regaining control of a blowout, not blowout prevention. The BOCP specifies how INPEX will respond to a well control event where primary well control has been lost with potential, or real, complications with secondary well control, extending to the worst case scenario of an uncontrolled blowout with significant hydrocarbon release to the environment and loss of assets.
Source Control Emergency Response Plan (SCERP)	D020-AD-PRC-10036	The SCERP is designed as a subset of the BOCP, to support response preparations to well control emergencies and establish a process for responding to safely managing them using a standard uniform approach. It includes the equipment and procedures to address a range of well control scenarios necessitating immediate mobilisation of intervention equipment and personnel.
INPEX Australia - Browse Regional Oil Pollution Emergency Plan (BROPEP) suite of documents, including: <ul style="list-style-type: none"> <li>BROPEP BOD &amp; FCA</li> <li>BROPEP IMTCA</li> <li>BROPEP</li> </ul>	X060-AH-REP-70016 X060-AH-REP-70015 X060-AH-PLN-70009	The BROPEP BOD & FCA report evaluates the oil spill <b>field response capability required for all INPEX Australia's</b> offshore petroleum exploration and production activities and associated oil spill risks.  The BROPEP IMTCA report defines the required IMT capability needed to implement the field oil spill response.  The BROPEP is the response document, used by the IMT, to activate and implement oil spill response capabilities during a spill scenario.

## 9 ENVIRONMENTAL MANAGEMENT IMPLEMENTATION STRATEGY

This section provides a description of the INPEX Australia BMS which captures the HSE requirements to manage HSE risks and meet legislative and corporate obligations, as applicable to the implementation of this EP and its associated performance outcomes and standards.

### 9.1 Overview

The BMS is a comprehensive, integrated system that includes standards and procedures necessary for the management of HSE risks. Activities to manage HSE risks are planned, implemented, verified **and reviewed under an iterative “plan, do, check, act” (PDCA) cycle**. The PDCA cycle enables INPEX to ensure that processes are adequately resourced and managed and that opportunities for improvement are determined and acted on.

INPEX HSE requirements are designed to meet the in-principle expectation of several standards, international management frameworks, guidelines and legislation. Of particular relevance to this EP includes the following:

- Commonwealth of Australia, Offshore Petroleum and Greenhouse Gas Storage (E) Regulations 2009
- NOPSEMA Guidance note N04750-N1344, Environment plan content requirements
- International Association of Oil and Gas Producers (IOGP) 510 Operating Management System Framework for controlling risk and delivering high performance in the oil and gas industry
- IOGP 511 Operating Management System in practice
- International Standards Organisation (ISO) 9001 Quality Management Systems
- ISO 14001 Environmental Management Systems.

The components of the BMS relevant to HSE are grouped into 13 external elements (Figure 9-1). These elements must be managed and implemented properly in order to achieve the desired HSE performance and reflect a PDCA cycle, which is applied to every aspect of the 13 elements.

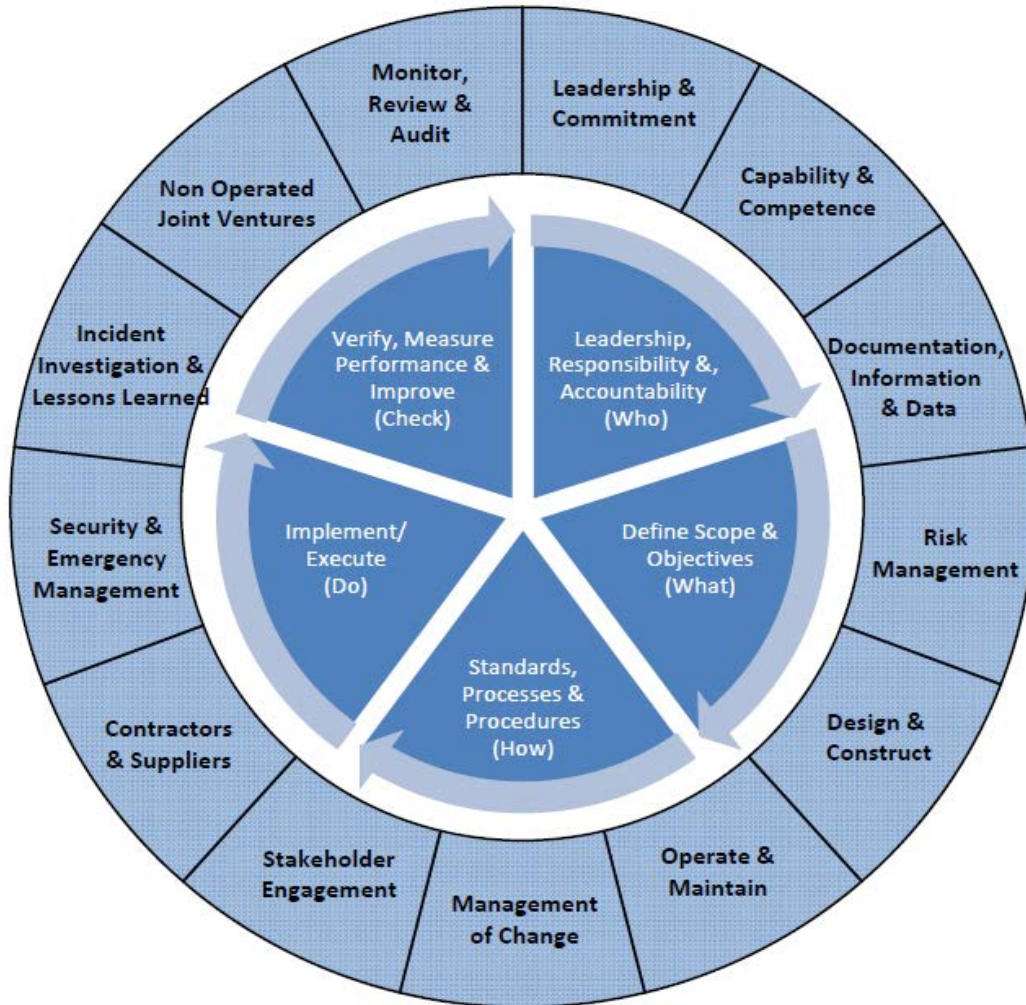


Figure 9-1: INPEX BMS: HSE requirements

## 9.2 Leadership and commitment

INPEX environmental performance is achieved through strong visible leadership, commitment and accountability at all levels of the organisation. Leadership includes defining performance targets and providing structures and resources to meet them. Achieving high levels of HSE performance is defined within the highest levels of management system documents (policies) and is cascaded through subsidiary documents.

The INPEX health, safety, security, environment and quality policy (as amended from time to time) (Figure 9-2) solidifies this commitment and states the minimum expectations for environmental performance. The policy applies to all INPEX controlled activities in Australia. All personnel, including contractors, are required to comply with the policy.

The policy (as amended) is available on the INPEX intranet and displayed at all INPEX workplaces including the MODU and all contractor vessels in the permit areas. It is communicated to personnel involved in the activities, including contractors, through inductions.



## Health, Safety, Security, Environment and Quality Policy

### Objective

INPEX contributes to the creation of a brighter future for society through our efforts to develop, produce and deliver energy in a sustainable way. We are actively supporting a cleaner energy future, as detailed in our [INPEX Vision@2022](#) which describes our roadmap to net zero emissions by 2050.

### Strategy

To accomplish this, INPEX will:

- maintain a strong culture of visible leadership to empower all personnel to achieve HSSEQ goals and objectives
- comply with applicable legislation, INPEX Standards as well as relevant international standards and practices
- maintain trust with all stakeholders by ensuring that process safety risks associated with our operations are identified and demonstrably managed to "As Low As Reasonably Practicable" (ALARP) in addition to HSSEQ risks
- ensure our operations obtain and sustain their regulatory and social licenses to operate through establishing, implementing, proactively challenging and verifying our critical controls and systems of work
- empower people to intervene to control hazards and prevent hazardous acts
- set, measure and review HSSEQ performance objectives and targets
- evaluate HSSEQ risk and opportunities, ensuring appropriate change management processes and controls are in place prior to implementing any change
- assess and control HSSEQ risks and opportunities with appropriate change management processes before implementing any change
- ensure all our personnel have the necessary awareness, competence, knowledge, resources and support to meet HSSEQ objectives and targets
- provide clearly defined HSSEQ performance expectations for our contractors and suppliers, and work collaboratively with them to achieve these
- enable informed decisions through a foundation of open communication with all relevant stakeholders to pursue mutually beneficial outcomes on HSSEQ related matters
- actively promote and prioritize safe, commercially viable measures to reduce greenhouse gas emissions, protect biodiversity, improve waste management and increase understanding of the natural environment across all our operations
- drive improvement in HSSEQ performance by monitoring, auditing, reviews, incident investigation and promoting a culture of continuous learning.

### Application

This policy applies to all INPEX controlled activities in Australia and related project locations. It will be displayed at all company workplaces and on the Company's intranet and it will be reviewed regularly.

**Tetsu Murayama**  
President Director, Australia

Figure 9-2: INPEX health, safety, security, environment and quality policy

### 9.3 Capability and competence

INPEX appoints and maintains competent personnel to manage environmental risks and provide assurance that the INPEX health, safety, security, environment and quality policy, objectives and performance expectations will be achieved. This applies to individual competencies established in position descriptions and competency plans that set expectations, track progress and monitor results. It also applies to the overall capability of the organisation through well-defined organisational structures and provision of resources.

#### 9.3.1 Organisation

Figure 9-3 and Figure 9-4 illustrate the organisational structure for onshore and offshore roles for both the pre-drill site survey and the exploration drilling activity respectively. During the pre-drill site survey, the drilling superintendent will ensure the implementation of this EP with support from the survey manager and offshore resources, namely the vessel master and party chief.

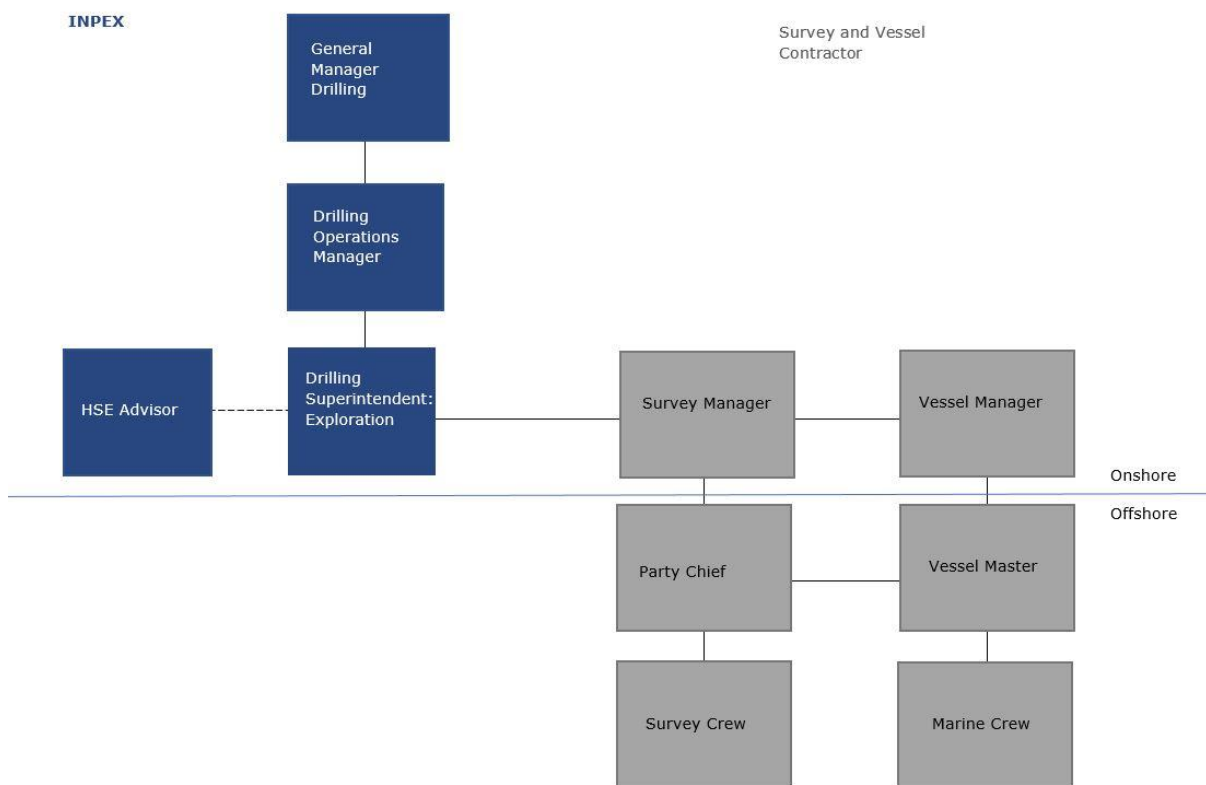


Figure 9-3: Pre-drill site survey organisational structure

Work activities for the exploration drilling will be conducted by the drilling contractor and service contractors, under the direction of the INPEX drilling supervisor via written work instructions and work programs.

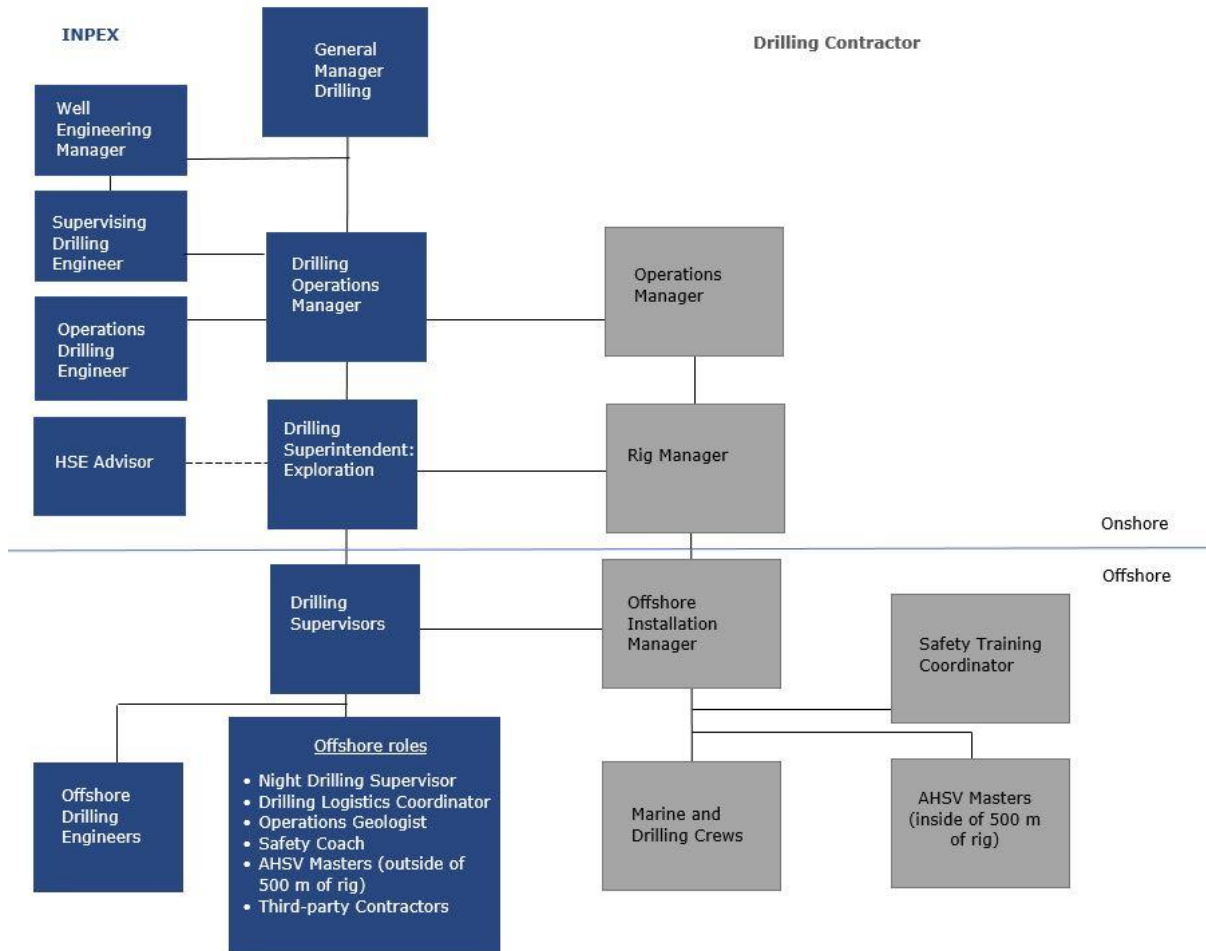


Figure 9-4: Exploration drilling organisational structure

### 9.3.2 Roles and responsibilities

INPEX has established and implements standards, procedures and systems to build and maintain a trained and competent workforce capable of fulfilling its assigned roles and responsibilities, as well as meeting its legislative and regulatory requirements. The selection process for the key INPEX personnel identified in Table 9-1 includes consideration of their previous work experience and recognised qualifications when compared with the INPEX minimum competency standards. Key personnel are provided with a position description to formalise their role and define their responsibilities.

The key roles in Table 9-1 are responsible for collecting and maintaining the required evidence and monitoring data as specified in the environmental performance standards detailed in sections 7, 8 and 9 of this EP. Additional roles and responsibilities related to the implementation of HSE requirements are also listed in Table 9-1.

Prior to mobilisation of site survey and drilling personnel (MODU and vessel), those in key roles (Table 9-1) will be informed of their respective responsibilities in relation to this EP. This information will be disseminated by INPEX (e.g. through workshops, one-on-one sessions or by email) to ensure EP/INPEX *Browse Regional OPEP* awareness and that appropriate competencies and training requirements are met.



INPEX conducts training-needs analysis for each of the key roles listed in Table 9-1 to define minimum training requirements. The analysis is used to develop training plans which document, schedule and record completion of specific HSE training for individuals.

Table 9-1: Key personnel and support roles and responsibilities

Key role	Responsibilities
INPEX General Drilling Manager (Onshore)	Ensures overall compliance with the INPEX BMS HSE requirements including environmental performance outcomes and standards.
INPEX Drilling Operations Manager (Onshore)	Ensures relevant INPEX BMS HSE requirements, including environmental performance outcomes and standards are communicated to drilling contractors.  Ensures the INPEX Drilling Superintendent: Exploration is provided with the resources required to ensure environmental performance outcomes and standards are met and maintained.
INPEX Drilling Superintendent: Exploration (Onshore)	Ensures activities are undertaken in accordance with this EP.  Ensures any changes to the activity that may affect the performance outcomes and environmental management procedures detailed in this EP are communicated to the INPEX HSE team.  Ensures vessel masters are provided with the resources required to ensure that the commitments in this EP are undertaken.  Ensures the INPEX drilling supervisor is provided with the resources required to ensure that the commitments in this EP are undertaken.  Ensures reporting of environmental incidents meets external reporting requirements and INPEX incident reporting requirements.  Ensures corrective actions raised from environmental audits are tracked and closed out.
INPEX Drilling Supervisor (Offshore)	Ensures contractors perform operations in a manner consistent with the performance outcomes and environmental management procedures detailed in this EP.  Ensures the implementation of the INPEX Environment Policy, through application of this EP.  Ensures the offshore installation manager (OIM), vessels masters and all crews adhere to the requirements of this EP.  Ensures that the INPEX drilling superintendent is alerted to any changes in activities that could have a negative impact on environmental performance.  Reports incidents to the INPEX Drilling Superintendent: Exploration.
INPEX HSE Adviser/ Environmental Adviser (Onshore)	Ensures that environmental audits are undertaken.  Ensures that waste management and containment equipment audits are undertaken.  Ensures that the OIM and vessels masters have been provided copies of personnel responsibilities as set out in this EP.  Ensures that any changes to the petroleum activity that may affect EP mitigation and management measures are captured via the management of change process.

Key role	Responsibilities
Offshore Installation Manager (Offshore)	<p>Ensures the MODU management system and procedures are implemented.</p> <p>Ensures personnel starting work on the MODU receive an HSE induction that meets the requirements specified in this EP.</p> <p>Ensures personnel are competent to undertake the work they have been assigned.</p> <p><b>Ensures emergency drills are conducted as per the MODU's schedule.</b></p> <p><b>Ensures the MODU's emergency response team has been given sufficient training to implement the MODU's SOPEP/SMPEP.</b></p> <p>Ensures any environmental incidents or breaches of performance outcomes, standards or criteria, are reported immediately to the INPEX Drilling Supervisor.</p>
Vessel masters (Offshore)	<p>Conduct vessel operations in accordance with this EP.</p> <p><b>Implement the vessel's SOPEP/SMPEP in an emergency.</b></p> <p>Implements relevant performance standards stated within this EP.</p> <p>Ensure that environmental incidents or breaches of performance outcomes, standards or criteria on vessels, are reported.</p>
Support role	Responsibilities
All crew (Offshore)	<p>Work in accordance with accepted MODU and vessel HSE systems and procedures.</p> <p>Comply with EP requirements as applicable to assigned role.</p> <p>Report any hazardous condition, near miss, unsafe act, accident or environmental incident immediately to supervisors.</p> <p>Attend HSE meetings and training when required.</p>

### 9.3.3 Training and inductions

Inductions are conducted for all personnel (including INPEX representatives, contractors, subcontractors and visitors) before they start work at any of the MODUs/vessels described in this EP. Inductions cover the HSE requirements under the INPEX BMS, including information about the commitments contained in this EP. A summary of the inductions and training programs in place to ensure relevant personnel are aware of their responsibilities is presented in Table 9-2.

In addition, environmental awareness is communicated to all personnel through a number of different mechanisms including environmental alerts, environmental bulletin posts on INPEX intranet site and posters displayed at work locations.

Table 9-2: Induction and training course summary

Induction/training course	Target audience	EP relevant content
INPEX Australia HSE Induction	All new INPEX Australia employees	Overview of INPEX Environment Policy, OPGGS (E) Regulations and requirement to adhere to EP commitments.

Induction/training course	Target audience	EP relevant content
Drilling campaign induction (online or face to face)	All campaign personnel (survey and drilling activities)	Overview of the exploration drilling campaign EP including: <ul style="list-style-type: none"> <li>• environmental values and sensitivities</li> <li>• environmental aspects/risk from offshore activities</li> <li>• controls to manage emissions, discharges and wastes</li> <li>• reporting requirements.</li> </ul>
INPEX Australia Browse Basin Environment Plans Support Vessels Induction	All personnel working onboard support vessel for exploration drilling activities.	Overview of the management controls for emissions, discharges and wastes from support vessels (which are consistent throughout INPEX EPs) including: <ul style="list-style-type: none"> <li>• environmental values and sensitivities</li> <li>• environmental aspects/risk from offshore activities</li> <li>• controls to manage emissions, discharges and wastes</li> <li>• reporting requirements.</li> </ul>
INPEX Australia Browse Regional Oil Pollution Emergency Plans Induction	OIM, vessel masters and any other relevant crew.	Overview of the Browse Regional OPEP requirements related to support vessels (which are consistent throughout INPEX EPs).
INPEX Australia Support Vessels Marine Fauna Awareness Training	All vessel bridge personnel.	Overview of the marine fauna management requirements (which are consistent with this EP).

Table 9-3: Environmental performance outcome, standard and measurement criteria for induction and training

Environmental performance outcome	Environmental performance standard	Measurement criteria
INPEX personnel including staff, contractors and visitors are aware of their responsibilities under this EP.	The training and awareness material described in Table 9-2 is delivered.	Records that inductions, training and awareness material has been provided.

9.4 Documentation, information and data

INPEX implements and maintains document and records management procedures and systems. These are in place to ensure that the information required to support safe and reliable drilling operations, is current, reliable and available to those who need it. It also ensures that organisational knowledge and learning is captured and preserved to enable the effective operations of processes to maintain compliant management of HSE information.

Documents and records are stored electronically in INPEX document management systems and databases. This EP and associated documentation are maintained within a database, with current versions also available via the controlled document repository.

Records to demonstrate implementation of the INPEX BMS HSE requirements and compliance with legislative requirements and other obligations are identified and maintained for at least five years. These records include:

- written reports – including risk assessment reports, hazard and risk registers, monitoring reports, ALARP demonstrations and audit and review reports– about environmental performance or implementation strategies
- records relating to environmental performance or the implementation strategies
- records of environmental emissions and discharges
- management of change records
- incident and/or near miss investigation reports
- lessons learned records
- improvement plans (corrective actions, key performance indicators)
- records relating to training and competency in accordance with this EP.

## 9.5 Risk management

A robust, structured process is applied by INPEX to identify hazards and ensure that HSE risks arising from assets and operations are systematically identified, assessed, evaluated and controlled to levels as low as reasonably practicable.

The risks and impacts associated with the petroleum activity are detailed in Section 7 and Section 8. Additional risk assessments will be undertaken on an ongoing basis when triggered by any of the following circumstances:

- when there is a proposed change to the activity, as identified by an INPEX MoC request
- when identified as necessary following the investigation of an event
- when additional or new information about environmental impacts or risks becomes available (e.g. through better knowledge of the receptors present within the EMBA, new scientific information/papers, results of monitoring, other industry events or studies or a relevant matter or objection/claim with merit is raised via ongoing relevant person consultation)
- if there is a change in regulations, as necessary
- during scheduled reviews of the documentation associated with this EP.

The risk assessments will be carried out in line with the assessment process described in Section 6 and are aligned to the HSE requirements of the INPEX BMS. This ensures that risks related to the activity are systematically identified, assessed, evaluated and controlled.

An environmental risk register for the activity is reviewed on a quarterly basis. The review includes assessment of any new information and other changes that have been recorded throughout the previous quarter. Where this review results in a change, the changes are documented and communicated.

9.6 Operate and maintain

9.6.1 Chemical assessment and approval

Chemicals discharged during the drilling campaign will be selected to meet both technical and environmental criteria. The environmental criteria are specified in the INPEX Chemical Assessment and Approval Guideline as summarised below:

- The chemical product is listed in the OSPAR list of substances/preparations used and discharged offshore which are considered to PLONOR. This list is based on assessment of the intrinsic properties of a chemical product and in order for a product to be included on the list the OSPAR Commission must consider that it poses little or no risk to the environment.
- The chemical product is GOLD or SILVER-rated under the OCNS CHARM model. The CHARM model calculates the ratio of predicted environmental concentration against no effect concentration. This is expressed as a HQ, which is then used to rank the product.
- The chemical product (if not CHARM-rated, e.g. inorganics, hydraulic fluids or pipeline chemicals) has an OCNS group rating of D or E. Non-CHARM products with a D or E grouping are either readily or inherently biodegradable.
- **The chemical product (if not OCNS registered) is assessed as 'green' via the INPEX pseudo ranking system in line with the OCNS CHARM/ non-CHARM criteria (refer Table 9-4).**

The assessment process requires that chemical products requested for use on INPEX sites or facilities which would be released to the marine environment under normal operating conditions shall be reviewed by an INPEX environmental adviser.

The INPEX pseudo ranking system, designed for those chemicals that are not OCNS registered, is a chemical assessment tool used to determine a chemical's inherent environmental hazard potential. This is determined by considering toxicity in conjunction with bioaccumulation and biodegradation potentials in line with the OCNS CHARM/non-CHARM criteria. Chemicals falling within the 'green' range are considered to present a low inherent hazard potential as shown in Table 9-4.

Table 9-4: INPEX chemical assessment tool

		Bioaccumulation					
		LogP <sub>ow</sub> <sup>1</sup> <3 or BCF <sup>2</sup> ≤100 and with a molecular weight ≥700			LogP <sub>ow</sub> <sup>1</sup> ≥3 or BCF <sup>2</sup> >100 and with a molecular weight <700		
Toxicity (ppm)		Biodegradation (in 28 days)					
Aquatic	Sediment	≥60%	≥20% to <60%	<20%	≥60%	≥20% to <60%	<20%
<1	<10						
1 ≤ to <10	10 ≤ to <100						
10 ≤ to <100	100 ≤ to <1000						
100 ≤ to <1000	1000 ≤ to <10000						
≥1000	≥10000						

Cells highlighted in green represent chemical characteristics associated with low environmental hazard levels.

<sup>1</sup> Octanol–water partition coefficient.

2 Bioconcentration factor.

In addition, the assessment process is to consider whether the product, regardless of the ranking, carries with it an OCNS substitution warning. Triggering this would require a further risk assessment of the product in accordance with the INPEX risk management process, which includes consideration of the *INPEX Risk Management Standard* (0000-A0-STD-60020).

Those chemical products considered as having a moderate or above residual risk will be assessed as unsuitable for use and will not be processed for approval and use during the drilling activity. Successful chemical requests will proceed to the approval stage, conducted within the chemical product database where all relevant records are maintained.

An EPO and EPS related to the implementation of the chemical assessment procedure is presented in Table 9-5.

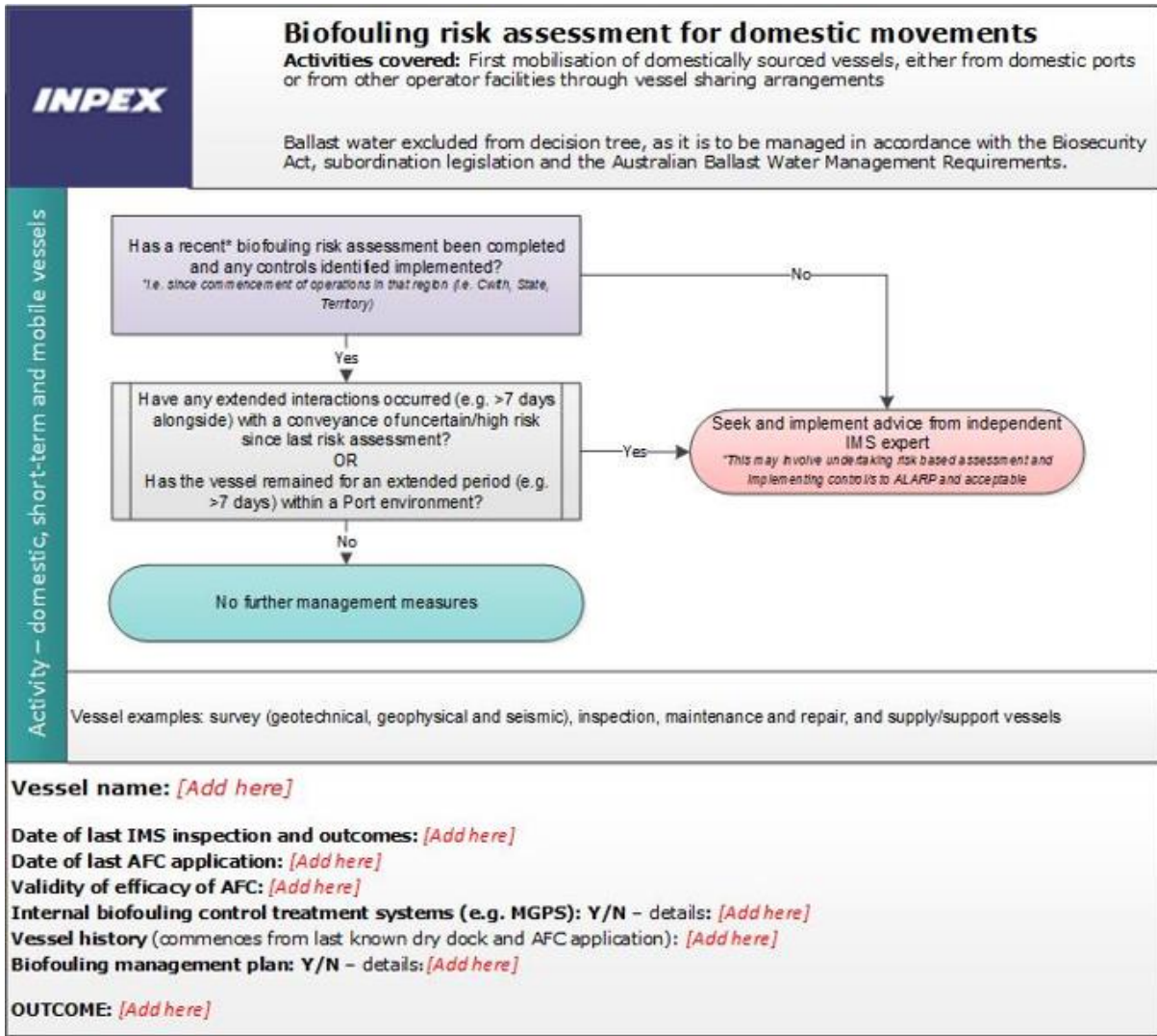
Table 9-5: Environmental performance outcome, standards and measurement criteria for implementation of chemical assessment and approval procedure

Environmental performance outcome	Environmental performance standard	Measurement criteria
No discharge of unapproved chemicals.	All chemicals assessed in accordance with the procedure.	Chemical assessments recorded and retained in a database.

#### 9.6.2 Biofouling risk assessment for domestic movements

The biofouling risk assessment process for domestic vessel movements includes aspects of the vessels history with respect to IMS risk e.g. vessels origin from within Australian waters and previous locations of operation (including whether these Australian locations have reported IMS occurrences), periods out-of-water and inspections/cleaning undertaken, age of anti-fouling coatings, presence and condition of internal treatment systems etc.

While undertaking the INPEX biofouling risk assessment for domestic movements (Figure 9-5) in any instances where potential risks are identified e.g. no anti-fouling coating or extended stays in Port, the process requires INPEX to engage an independent IMS expert and if required a further risk assessment may be undertaken.



- a change is considered to represent a significant modification to, or a new stage of, an existing activity
- a change will create a significant new environmental impact or risk that is not provided for in the current EP; or
- a change will result in a series of new (or increased) environmental impacts or risks that, together, will result in a significant new environmental impact or risk, or a significant increase in an existing environmental impact or risk.

The MoC request process will be periodically checked against NOPSEMA guidance to ensure ongoing compliance and will be undertaken as part of the management review process described in Section 9.13.

## 9.8 Stakeholder engagement

Communications with stakeholders and relevant persons are inclusive and effective, to facilitate the controlled transfer of relevant and appropriate HSE information. Stakeholders include INPEX Corporation, INPEX employees, contractors, regulators, external industry bodies, shareholders, joint venture participants, suppliers, customers, non-government organisations, indigenous groups, financiers and members of the community.

### 9.8.1 Legislative and other requirements

INPEX maintains an approvals and compliance tracking system which identifies future approval requirements and when they must be in place, as well as compliance with existing approvals. Through this system, responsible persons are provided with alerts for required actions and time frames to avoid non-compliance and ensure there are no gaps in approvals.

In addition, INPEX personnel participate in industry and regulator forums, as well as maintain up-to-date knowledge of industry practices and proposed regulatory changes. Changes to legislative and other requirements are reviewed for potential impacts to business operations and communicated, as required, to personnel managing potentially affected activities.

Updates to matters relating to the EPBC Act, including policy statements and conservation management documentation is achieved through subscription to automated email notifications provided by the DCCEEW. **In addition, updates following the Government's independent AMP review, such as AMP management plans will also be reviewed for relevance against this EP.** Where required, updates to this EP will be conducted in accordance with the MoC process described in Section 9.7.

### 9.8.2 Communication

INPEX HSE requirements and matters are communicated throughout the organisation. This facilitates the cascading and implementation of business policies and standards through the business, and on to contractors who work on behalf of INPEX.

INPEX and its contractors adopt a number of methods to ensure that information relating to HSE risks and impacts are communicated to personnel, including:

- daily toolbox meetings
- MODU HSE meetings
- use of noticeboards, intranet, HSE alerts and newsflashes e.g. environmental aspects and events
- internal and external reporting.



### 9.8.3 Ongoing relevant person consultation

#### Post-EP acceptance

A mechanism to enable further consultation and provide an opportunity to raise relevant matters, objections or claims will remain published online for the duration of the activity through the EP summary website. The EP summary website will enable INPEX to receive feedback from:

- any relevant persons identified during the development of this plan that have not yet been contactable by INPEX and/or
- any relevant persons who become known to INPEX during the implementation of this EP.

An environmental performance outcome and standard in relation to maintaining a mechanism for ongoing consultation and feedback is presented in Table 9-7.

#### During EP implementation

Any relevant matters, objections or claims received from relevant persons post-EP acceptance or while the activity is ongoing will be considered and assessed as detailed in Section 5, using the same process and criteria described for the relevant person consultation undertaken during the development of this EP (Appendix B.2).

Any new information (Section 9.5) received by INPEX from relevant persons, will be assessed to confirm if it is a relevant matter or the objection/claim has merit. Where the EP is required to be updated to reflect the matters raised, it will be conducted in accordance with the MoC process described in Section 9.7.

In relation to an EP Implementation Strategy, Regulation 14(9) of the OPPGS (E) Regulations 2009 specifies a requirement for consultation with relevant authorities of the Commonwealth, a state or territory, and other relevant interested persons or organisations. Mechanisms that provide ongoing opportunities for consultation with relevant persons, in relation to the implementation of this EP (predominantly through notifications), are summarised in Table 9-6 and an environmental performance outcome and standard is presented in Table 9-7.

Table 9-6: Ongoing relevant person consultation and notifications

Relevant person	Information supplied	Frequency
Australian Hydrographic Office (Cwlth)	The AHO will be notified of the activity commencement and cessation via <a href="mailto:datacentre@hydro.gov.au">datacentre@hydro.gov.au</a> for promulgation of fortnightly Notice to Mariners.	4 weeks prior to commencement and upon completion
Australian Maritime Safety Authority (AMSA; Cwlth) Joint Rescue Coordination Centre (JRCC)	INPEX to notify AMSA JRCC for promulgation of radio-navigation warnings 24-48 hours before operations commence and upon completion of the survey (Email: <a href="mailto:rccaus@amsa.gov.au">rccaus@amsa.gov.au</a> ; Phone: 1800 641 792 or +61 2 6230 6811).  <b>AMSA's JRCC require the vessel names, IMO vessel numbers and call signs, and Maritime Mobile Service Identity (MMSI) numbers.</b>	24-48 hours before operations commence and upon completion

Relevant person	Information supplied	Frequency
NOPSEMA (Cwlth)	NOPSEMA will be notified of the activity commencement and cessation, using the Regulation 29 Notification Form available at <a href="https://www.nopsema.gov.au/environmental-management/notification-and-reporting/">https://www.nopsema.gov.au/environmental-management/notification-and-reporting/</a>	At least 10 days prior to commencement and within 10 days of completion
National Offshore Petroleum Titles Administrator (Cwlth) (NOPTA)	NOPTA will be notified of the geotechnical/geophysical survey activity commencement and cessation via reporting@nopta.gov.au	48 hours prior to commencement and upon completion
Department of Mines, Industry Regulation and Safety (WA)	DMIRS will be notified of the activity commencement and cessation.  Notifications of any environmental incidents that could potentially impact on any land or water in State jurisdiction will also be sent to DMIRS in accordance with Section 9.11.3.	As required
AFMA and relevant fishing representatives/licence holders	Provide updates on future developments relating to the project.	As required
Department of Trade and Tourism – Fisheries (NT)	Provide updates on future developments relating to the project.	As required
NT Chamber of Commerce	Provide updates on future developments relating to the project.	As required
Southern bluefin tuna, Western skipjack tuna and western tuna and billfish fishery licence holders	Notification of commencement of activity will include details of: <ul style="list-style-type: none"> <li>the location</li> <li>expected start date and duration</li> <li>IMO vessel numbers and call signs</li> <li>vessel radio and satellite phone communication details</li> <li>The notification of completion will confirm the date of completion and MODU/vessel demobilisation from the permit areas.</li> </ul>	At least 10 days prior to commencement and upon completion

Table 9-7: Environmental performance outcome, standards and measurement criteria for implementation of ongoing relevant person consultation

Environmental performance outcome	Environmental performance standard	Measurement criteria
Where requested, relevant persons will be kept informed of activities described in this EP.	Ongoing consultation with relevant persons undertaken in accordance with Table 9-6.	Relevant person consultation records.
Maintain the opportunity for consultation to occur by allowing persons to identify as relevant and provide feedback.	During the assessment and implementation of this EP, an EP summary website that allows for feedback to be provided to INPEX will be accessible.	Records confirm EP summary website is published for the duration of the activity.
Ensure that relevant matters raised are assessed and decisions documented.	Any new information that is considered and assessed as a relevant matter or objection/claim with merit, that will require this EP to be updated, will be conducted in accordance with the MoC process described in Section 9.7.	EP MoC records
Confirm INPEXs understanding of DFAT notification requirements for oil spills entering the Perth Treaty Areas and Maritime Boundaries Treaty areas.	INPEX will continue to follow up and <b>confirm DFAT's understanding</b> of notifications in the highly unlikely event of an oil spill entering the Perth Treaty Area or Maritime Boundaries Treaty Area.	Consultation records
Meet the TLC request to provide an independent marine scientist to present to the TLC executive committee.	INPEX will procure an independent marine scientist to brief the TLC at a time nominated by the TLC executive committee during the implementation of this EP.	Records from independent marine scientist confirming briefing was held.

#### 9.8.4 Reconciliation action plan

INPEX maintains a reconciliation action plan (RAP<sup>4</sup>) **which outlines the company's** engagement with the Aboriginal and Torres Strait Islander communities that it works within. In implementing this EP and the RAP, INPEX acknowledges the rights and cultural interests of Aboriginal and Torres Strait Islander peoples and the deep understanding and experience that they contribute.

#### 9.9 Contractors and suppliers

Selection and management processes are in place to ensure that contractors working for, or on behalf of, INPEX are able and willing to meet the minimum business expectations of INPEX, including those related to HSE and risk management.

<sup>4</sup> Available online at <https://www.inpex.com.au/media/skqfbqax/web-rap-inpex-january-2023-december-2025-spreads-5-1.pdf>

Contractors and suppliers are selected based on their capabilities and managed throughout the scope of works to deliver on HSE and process safety performance expectations.

The processes for pre-qualification, selection and management of suppliers and contractors are detailed within the INPEX BMS such that:

- HSE and process safety risks associated with the scope of work are identified and known
- contractors and suppliers are selected based on their organisational capability and personnel competence to execute the scope of work, including effective management of HSE and process safety risks
- roles and responsibilities, and minimum performance expectations are communicated to contractors and suppliers, and form part of contractual obligations
- contractors are partnered to deliver desired HSE and process safety performance targets, and monitored for compliance with contractual requirements
- lessons learned from each scope of work are applied to future activities.

#### 9.10 Security and emergency management

Regulation 14(8) of the OPGGS (E) Regulations requires the implementation strategy to contain an OPEP and the provision for the OPEP to be updated. In accordance with Regulation 14 (8AA)) the OPEP must include arrangements to respond to and monitor oil pollution, including:

- the control measures necessary for a timely response to an oil pollution emergency
- the arrangements and response capability to implement a timely implementation of those controls, including ongoing maintenance of that capability
- the arrangements and capability for monitoring the effectiveness of the controls and ensuring that performance standards for those controls are met
- the arrangements and capability for monitoring oil pollution to inform response activities
- the provision for the OPEP to be updated.

These requirements are addressed through the INPEX *Browse Regional OPEP*, a summary of which is provided in Section 8.4 and Table 8-10 of this EP.

#### 9.11 Incident investigation and lessons learned

HSE and process safety incidents and high potential hazards must be reported and investigated to identify and address the root causes, and apply lessons learned to improve designs, systems and work practices.

##### 9.11.1 HSE performance measurement and reporting

HSE performance data is monitored in accordance with the INPEX BMS. This enables the status of conformance with HSE obligations and goals to be determined, and also ensures HSE risks are being effectively managed to support continuous improvement. HSE is regularly reviewed by senior management.

### 9.11.2 Environmental incident reporting – internal

INPEX refers to environmental incidents and hazards as “environmental events”, which all personnel, including contractors, are required to report as soon as is reasonably practicable. Reporting must be in accordance with the INPEX *Event Reporting and Investigation Standard* and associated procedure.

All events will be documented and reviewed for their actual and potential consequence severity levels and investigated as appropriate. Corrective or preventative actions will be identified and documented, and their completion verified in an action register. These actions may include changes to the risk registers, standards, or procedures, or the need for training, different tools or equipment. Any actions will be recorded and tracked.

### 9.11.3 Environmental incident reporting – external

For the purposes of regulatory reporting to NOPSEMA, an incident is classified as either “Reportable” or “Recordable” based on the definitions contained in Regulation 4 of the OPGGS (E) Regulations 2009.

**A “Reportable” incident is defined as “an incident relating to the activity that has caused, or has the potential to cause, moderate to significant environmental damage.”** Environmental damage (or the potential to cause damage) includes social, economic and cultural features of the environment. For the purposes of this EP, such an incident is considered to have an environmental consequence level of Moderate (D) to Catastrophic (A) as defined in the INPEX Risk Matrix (Figure 6-1).

Based on the consequence assessments described in sections 7 and 8 of this EP, incidents identified as having the potential to be “Reportable” (i.e. Moderate (D) or above on the INPEX Risk Matrix) include:

- the introduction of IMS
- loss of well containment
- vessel collision.

**A “Recordable” incident is defined as “a breach of an environmental performance outcome or environmental performance standard ... that is not a reportable incident.”** In terms of the activities within the scope of this EP, it is a breach of the performance standards and outcomes listed in Section 7, Section 8 or Section 9 of this EP and the Browse Regional OPEP.

For the purposes of regulatory reporting to DCCEEW, any significant impact to MNES, as classified using the INPEX Risk Matrix, will be reported to DCCEEW.

The DNP will be notified of any oil/gas pollution incidences within or likely to impact an AMP as soon as possible (refer to INPEX *Browse Regional OPEP*).

#### Reportable incidents

##### *Initial verbal notification*

In the event of a reportable incident, INPEX will give NOPSEMA an initial verbal notification of the occurrence as soon as is practicable; and in any case, not later than two hours after the first occurrence of the reportable incident; or if it is not detected at the time of the first occurrence, within two hours of the time that INPEX becomes aware of the incident.

The initial verbal notification will contain:

- all material facts and circumstances concerning the reportable incident that are known or can, by reasonable search or enquiry, be found out

- any action taken to avoid or mitigate any adverse environmental impacts of the reportable incident
- the corrective action that has been taken, or is proposed to be taken, to stop, control or remedy the reportable incident.

#### *Written notification*

As soon as possible after an initial verbal notification of a reportable incident, INPEX will provide a written record of the notification to:

- NOPSEMA
- NOPTA (Cwlth)
- WA DMIRS or NT DIPL, depending on the jurisdiction.

In the event of a significant impact to MNES, INPEX will provide an initial notification to DCCEEW within 24 hours of becoming aware of the event.

In the event of a reportable incident, INPEX will provide a written report to NOPSEMA as soon as is practicable; and in any case, not later than three days after the first occurrence of the incident. If, within the three day period, NOPSEMA specifies an alternative reporting period, INPEX will report accordingly. The report will contain:

- all material facts and circumstances concerning the reportable incident that are known or can, by reasonable search or enquiry, be found out
- any action taken to avoid or mitigate any adverse environmental impacts of the reportable incident
- the corrective action that has been taken, or is proposed to be taken, to stop, control or remedy the reportable incident
- the action that has been taken, or is proposed to be taken, to prevent a similar incident occurring in the future.

Within seven days of giving a written report of a reportable incident to NOPSEMA, INPEX will provide a copy of the report to:

- NOPTA (Cwlth)
- WA DMIRS or NT DIPL, depending on the jurisdiction.

Following submission of the above, NOPSEMA may, by notice in writing, request INPEX to submit an additional report(s) of the incident. Where this is the case, NOPSEMA will identify the information to be contained in the report(s) or the matters to be addressed and will specify the submission date for the report(s). INPEX will prepare and submit the report(s) in accordance with the notice given.

In the event of a significant impact to MNES, INPEX will provide a written notification to DCCEEW (Cwlth) within three days of becoming aware of the event, and provide additional information as available, if requested by DCCEEW.

This includes reporting any vessel strike incidents to the National Ship Strike Database at <<https://data.marinemammals.gov.au/report/shipstrike>>.

Suspected or confirmed presence of any marine pest or disease will be reported to WA DPIRD within 24 hours by email ([biosecurity@fish.wa.gov.au](mailto:biosecurity@fish.wa.gov.au)) or telephone. This includes any organism listed in the WA prevention list for introduced marine pests and any other non-indigenous organism that demonstrates invasive characteristics. For NT waters, aquatic pests will be reported by email ([aquaticbiosecurity@nt.gov.au](mailto:aquaticbiosecurity@nt.gov.au)).

## Recordable incidents

### *Reporting*

In the event of a recordable incident, INPEX will report the occurrence to NOPSEMA as soon as is practicable after the end of the calendar month in which it occurs; and in any case, not later than 15 days after the end of the calendar month. The report will contain:

- a record of all the recordable incidents that occurred during the calendar month
- all material facts and circumstances concerning the recordable incidents that are known or can, by reasonable search or enquiry, be found out
- any action taken to avoid or mitigate any adverse environmental impacts of the recordable incidents
- the corrective action that has been taken, or is proposed to be taken, to stop, control or remedy the recordable incident
- the action that has been taken, or is proposed to be taken, to prevent a similar incident occurring in the future.

#### 9.11.4 Annual performance reporting – external

In accordance with Regulation 14(2) of the OPGGS (E) Regulations 2009, INPEX will undertake a review of its compliance with the environmental performance outcomes and standards set out in this EP and will provide a written report of its findings for the reporting period to NOPSEMA on an annual basis, as agreed with NOPSEMA. The annual submission date for the environmental performance report will be 12 months after the start of the activity.

#### 9.12 Monitor, review and audit

HSE performance must be monitored through audits, reviews, validation, verification and assurance checks, to correct at risk situations and deliver improved performance.

##### 9.12.1 Management system audit

An audit and inspection program will be developed and implemented in accordance with the INPEX business standard for auditing. The program will include:

- self-assessment HSE audits against the INPEX BMS
- regular inspections of workplace equipment and activities
- reviews to evaluate compliance with legislative and other requirements.

Unscheduled audits may be initiated by INPEX in the event of an incident, non-compliance or for other valid reasons.

Audit teams will be appropriately qualified, experienced and competent in auditing techniques. They will include relevant technical expertise, as required, and the audit team structure will be commensurate with the scope of the audit. HSE audit and inspection findings will be summarised in a report. Non-conformances, actions and improvement plans resulting from audits will be managed in an action tracking system.

##### 9.12.2 MODU and vessel inspections

Inspections will be undertaken to ensure that the environmental performance outcomes and standards documented in this EP can be achieved.

Pre-mobilisation HSE inspections will be conducted prior to site survey and drilling activities on relevant MODUs and vessels.

During the activity, operational compliance against relevant EPO/EPs will be assessed and maintained through the implementation of respective monthly environmental inspection checklists.

Non-conformances and relevant findings during the inspections will be converted into actions that will be tracked within an action tracking database until closed.

### 9.13 Management review

Through a process of adaptive management, lessons from management outcomes will be used for continual improvement. Formal reviews of the effectiveness and appropriateness of the HSE requirements as per the INPEX BMS are performed by senior management on a periodic basis. Learnings from this process, and iterative decision-making will then be used as feedback to improve future management.

Together with the annual environmental performance report described in Section 9.11.4, EP management reviews will enable the review of environmental performance, as well the efficacy of the implementation strategy used during the activity.

Management reviews of this EP shall assess whether:

- the environmental impacts and risks of the activity continue to be identified and reduced to a level that is ALARP
- control measures detailed in this EP are effective in reducing the environmental impacts and risks of the activity to ALARP and an acceptable level
- implementation of the MoC process has remained consistent with the commitment to ensuring impacts and risks are reduced to ALARP and are acceptable
- any changes in legislation, or matters relating to the EPBC Act, including policy statements and conservation management documentation, have occurred which affect or need to be taken into consideration in relation to this EP
- any changes in NOPSEMA guidance which may affect or need to be taken into consideration in relation to this EP
- the Operational and Scientific Monitoring Program (within the Browse Regional OPEP) remains fit for purpose
- lessons learned have been communicated and, where applicable, applied across all titleholder activities, as relevant.

Where the documented findings of the EP management reviews have implications for this EP, the EP will be updated in accordance with the EP MoC process.



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**INPEX**

## Appendix A-

# EPBC Act Protected Matters Reports, Species Risk Evaluation and **Cultural Heritage Reports**





## APPENDIX A: EPBC ACT PROTECTED MATTERS REPORTS, SPECIES RISK EVALUATION AND CULTURAL HERITAGE REPORTS

### A.1 EPBC Act protected matters reports

- WA-285-P
- WA-343-P
- EMBA
- PEZ



# 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 [Environment Assessments](#) and the EPBC Act including significance guidelines, forms and application process details.

Report created: 14/03/22 17:00:41

[Summary](#)

[Details](#)

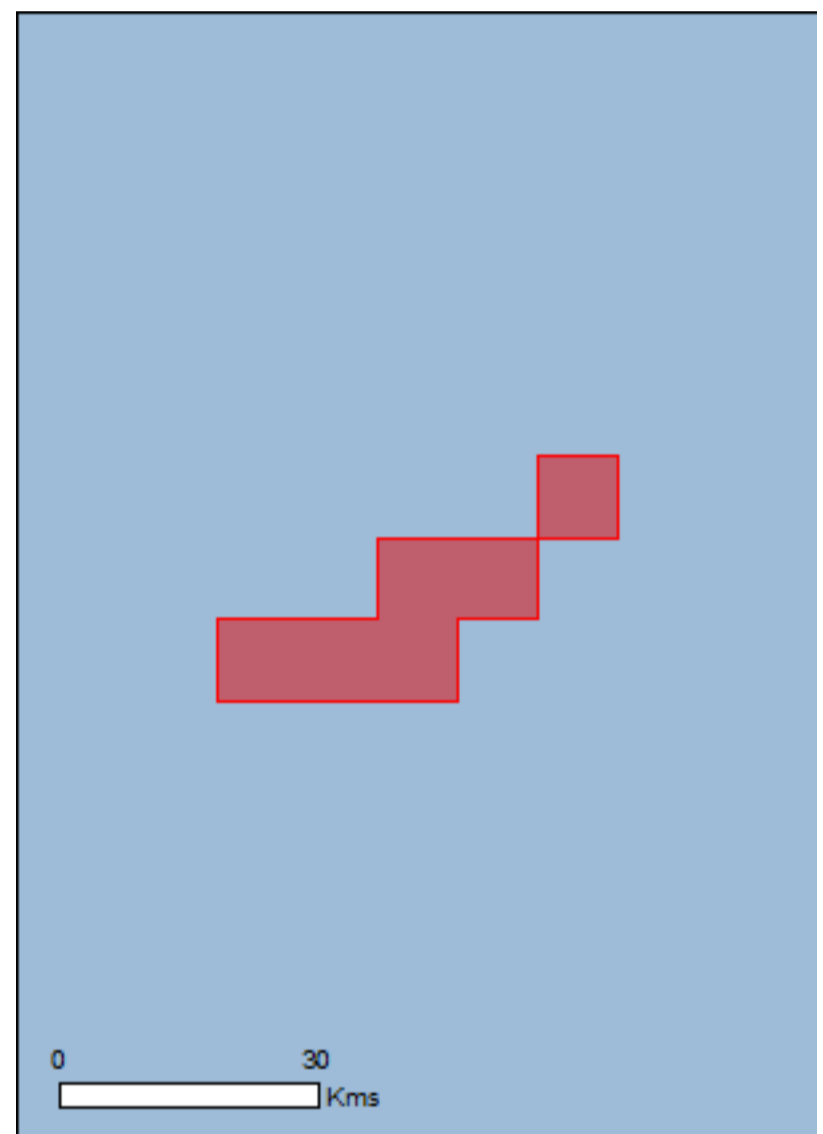
[Matters of NES](#)

[Other Matters Protected by the EPBC Act](#)

[Extra Information](#)

[Caveat](#)

[Acknowledgements](#)



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[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 [Administrative Guidelines on Significance](#).

<a href="#">World Heritage Properties:</a>	None
<a href="#">National Heritage Places:</a>	None
<a href="#">Wetlands of International Importance:</a>	None
<a href="#">Great Barrier Reef Marine Park:</a>	None
<a href="#">Commonwealth Marine Area:</a>	1
<a href="#">Listed Threatened Ecological Communities:</a>	None
<a href="#">Listed Threatened Species:</a>	18
<a href="#">Listed Migratory Species:</a>	33

## 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 [permit](#) 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.

<a href="#">Commonwealth Land:</a>	None
<a href="#">Commonwealth Heritage Places:</a>	None
<a href="#">Listed Marine Species:</a>	62
<a href="#">Whales and Other Cetaceans:</a>	22
<a href="#">Critical Habitats:</a>	None
<a href="#">Commonwealth Reserves Terrestrial:</a>	None
<a href="#">Australian Marine Parks:</a>	None

## Extra Information

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

<a href="#">State and Territory Reserves:</a>	None
<a href="#">Regional Forest Agreements:</a>	None
<a href="#">Invasive Species:</a>	None
<a href="#">Nationally Important Wetlands:</a>	None
<a href="#">Key Ecological Features (Marine)</a>	1

# 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

### 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](#)

### Listed Threatened Species

[\[ Resource Information \]](#)

Name	Status	Type of Presence
<b>Birds</b>		
<a href="#">Anous tenuirostris melanops</a> Australian Lesser Noddy [26000]	Vulnerable	Species or species habitat may occur within area
<a href="#">Calidris canutus</a> Red Knot, Knot [855]	Endangered	Species or species habitat may occur within area
<a href="#">Calidris ferruginea</a> Curlew Sandpiper [856]	Critically Endangered	Species or species habitat may occur within area
<a href="#">Numenius madagascariensis</a> Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat may occur within area
<a href="#">Papasula abbotti</a> Abbott's Booby [59297]	Endangered	Species or species habitat may occur within area
<b>Mammals</b>		
<a href="#">Balaenoptera borealis</a> Sei Whale [34]	Vulnerable	Species or species habitat likely to occur within area
<a href="#">Balaenoptera musculus</a> Blue Whale [36]	Endangered	Species or species habitat likely to occur within area
<a href="#">Balaenoptera physalus</a> Fin Whale [37]	Vulnerable	Species or species habitat likely to occur within area
<b>Reptiles</b>		

Name	Status	Type of Presence
<a href="#">Caretta caretta</a> Loggerhead Turtle [1763]	Endangered	Species or species habitat likely to occur within area
<a href="#">Chelonia mydas</a> Green Turtle [1765]	Vulnerable	Species or species habitat likely to occur within area
<a href="#">Dermochelys coriacea</a> Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Species or species habitat likely to occur within area
<a href="#">Eretmochelys imbricata</a> Hawksbill Turtle [1766]	Vulnerable	Species or species habitat likely to occur within area
<a href="#">Lepidochelys olivacea</a> Olive Ridley Turtle, Pacific Ridley Turtle [1767]	Endangered	Species or species habitat likely to occur within area
<a href="#">Natator depressus</a> Flatback Turtle [59257]	Vulnerable	Species or species habitat likely to occur within area
<b>Sharks</b>		
<a href="#">Carcharodon carcharias</a> White Shark, Great White Shark [64470]	Vulnerable	Species or species habitat may occur within area
<a href="#">Glyphis garricki</a> Northern River Shark, New Guinea River Shark [82454]	Endangered	Species or species habitat may occur within area
<a href="#">Pristis zijsron</a> Green Sawfish, Dindagubba, Narrowsnout Sawfish [68442]	Vulnerable	Species or species habitat known to occur within area
<a href="#">Rhincodon typus</a> Whale Shark [66680]	Vulnerable	Species or species habitat may occur within area
<b>Listed Migratory Species</b> [ <a href="#">Resource Information</a> ]		
* Species is listed under a different scientific name on the EPBC Act - Threatened Species list.		
Name	Threatened	Type of Presence
<b>Migratory Marine Birds</b>		
<a href="#">Anous stolidus</a> Common Noddy [825]		Species or species habitat may occur within area
<a href="#">Calonectris leucomelas</a> Streaked Shearwater [1077]		Species or species habitat known to occur within area
<a href="#">Fregata ariel</a> Lesser Frigatebird, Least Frigatebird [1012]		Species or species habitat likely to occur within area
<a href="#">Fregata minor</a> Great Frigatebird, Greater Frigatebird [1013]		Foraging, feeding or related behaviour likely to occur within area
<a href="#">Phaethon lepturus</a> White-tailed Tropicbird [1014]		Species or species habitat likely to occur within area
<b>Migratory Marine Species</b>		
<a href="#">Anoxypristis cuspidata</a> Narrow Sawfish, Knifetooth Sawfish [68448]		Species or species habitat may occur within area

Name	Threatened	Type of Presence
<a href="#">Balaenoptera borealis</a> Sei Whale [34]	Vulnerable	Species or species habitat likely to occur within area
<a href="#">Balaenoptera edeni</a> Bryde's Whale [35]		Species or species habitat likely to occur within area
<a href="#">Balaenoptera musculus</a> Blue Whale [36]	Endangered	Species or species habitat likely to occur within area
<a href="#">Balaenoptera physalus</a> Fin Whale [37]	Vulnerable	Species or species habitat likely to occur within area
<a href="#">Carcharhinus longimanus</a> Oceanic Whitetip Shark [84108]		Species or species habitat may occur within area
<a href="#">Carcharodon carcharias</a> White Shark, Great White Shark [64470]	Vulnerable	Species or species habitat may occur within area
<a href="#">Caretta caretta</a> Loggerhead Turtle [1763]	Endangered	Species or species habitat likely to occur within area
<a href="#">Chelonia mydas</a> Green Turtle [1765]	Vulnerable	Species or species habitat likely to occur within area
<a href="#">Dermochelys coriacea</a> Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Species or species habitat likely to occur within area
<a href="#">Eretmochelys imbricata</a> Hawksbill Turtle [1766]	Vulnerable	Species or species habitat likely to occur within area
<a href="#">Isurus oxyrinchus</a> Shortfin Mako, Mako Shark [79073]		Species or species habitat likely to occur within area
<a href="#">Isurus paucus</a> Longfin Mako [82947]		Species or species habitat likely to occur within area
<a href="#">Lepidochelys olivacea</a> Olive Ridley Turtle, Pacific Ridley Turtle [1767]	Endangered	Species or species habitat likely to occur within area
<a href="#">Manta birostris</a> Giant Manta Ray, Chevron Manta Ray, Pacific Manta Ray, Pelagic Manta Ray, Oceanic Manta Ray [84995]		Species or species habitat may occur within area
<a href="#">Megaptera novaeangliae</a> Humpback Whale [38]		Species or species habitat known to occur within area
<a href="#">Natator depressus</a> Flatback Turtle [59257]	Vulnerable	Species or species habitat likely to occur within area
<a href="#">Orcinus orca</a> Killer Whale, Orca [46]		Species or species habitat may occur within area
<a href="#">Physeter macrocephalus</a> Sperm Whale [59]		Species or species habitat may occur within area

Name	Threatened	Type of Presence
<a href="#">Pristis zijsron</a> Green Sawfish, Dindagubba, Narrowsnout Sawfish [68442]	Vulnerable	Species or species habitat known to occur within area
<a href="#">Rhincodon typus</a> Whale Shark [66680]	Vulnerable	Species or species habitat may occur within area
<a href="#">Tursiops aduncus (Arafura/Timor Sea populations)</a> Spotted Bottlenose Dolphin (Arafura/Timor Sea populations) [78900]		Species or species habitat may occur within area
<b>Migratory Wetlands Species</b>		
<a href="#">Actitis hypoleucos</a> Common Sandpiper [59309]		Species or species habitat may occur within area
<a href="#">Calidris acuminata</a> Sharp-tailed Sandpiper [874]		Species or species habitat may occur within area
<a href="#">Calidris canutus</a> Red Knot, Knot [855]	Endangered	Species or species habitat may occur within area
<a href="#">Calidris ferruginea</a> Curlew Sandpiper [856]	Critically Endangered	Species or species habitat may occur within area
<a href="#">Calidris melanotos</a> Pectoral Sandpiper [858]		Species or species habitat may occur within area
<a href="#">Numenius madagascariensis</a> Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat may occur within area

## Other Matters Protected by the EPBC Act

Listed Marine Species		<a href="#">[ Resource Information ]</a>
* Species is listed under a different scientific name on the EPBC Act - Threatened Species list.		
Name	Threatened	Type of Presence
<b>Birds</b>		
<a href="#">Actitis hypoleucos</a> Common Sandpiper [59309]		Species or species habitat may occur within area
<a href="#">Anous stolidus</a> Common Noddy [825]		Species or species habitat may occur within area
<a href="#">Anous tenuirostris melanops</a> Australian Lesser Noddy [26000]	Vulnerable	Species or species habitat may occur within area
<a href="#">Calidris acuminata</a> Sharp-tailed Sandpiper [874]		Species or species habitat may occur within area
<a href="#">Calidris canutus</a> Red Knot, Knot [855]	Endangered	Species or species habitat may occur within area
<a href="#">Calidris ferruginea</a> Curlew Sandpiper [856]	Critically Endangered	Species or species habitat may occur within area

Name	Threatened	Type of Presence
<a href="#">Calidris melanotos</a> Pectoral Sandpiper [858]		Species or species habitat may occur within area
<a href="#">Calonectris leucomelas</a> Streaked Shearwater [1077]		Species or species habitat known to occur within area
<a href="#">Fregata ariel</a> Lesser Frigatebird, Least Frigatebird [1012]		Species or species habitat likely to occur within area
<a href="#">Fregata minor</a> Great Frigatebird, Greater Frigatebird [1013]		Foraging, feeding or related behaviour likely to occur within area
<a href="#">Numenius madagascariensis</a> Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat may occur within area
<a href="#">Papasula abbotti</a> Abbott's Booby [59297]	Endangered	Species or species habitat may occur within area
<a href="#">Phaethon lepturus</a> White-tailed Tropicbird [1014]		Species or species habitat likely to occur within area
<b>Fish</b>		
<a href="#">Bhanotia fasciolata</a> Corrugated Pipefish, Barbed Pipefish [66188]		Species or species habitat may occur within area
<a href="#">Campichthys tricarinatus</a> Three-keel Pipefish [66192]		Species or species habitat may occur within area
<a href="#">Choeroichthys brachysoma</a> Pacific Short-bodied Pipefish, Short-bodied Pipefish [66194]		Species or species habitat may occur within area
<a href="#">Choeroichthys suillus</a> Pig-snouted Pipefish [66198]		Species or species habitat may occur within area
<a href="#">Corythoichthys amplexus</a> Fijian Banded Pipefish, Brown-banded Pipefish [66199]		Species or species habitat may occur within area
<a href="#">Corythoichthys flavofasciatus</a> Reticulate Pipefish, Yellow-banded Pipefish, Network Pipefish [66200]		Species or species habitat may occur within area
<a href="#">Corythoichthys intestinalis</a> Australian Messmate Pipefish, Banded Pipefish [66202]		Species or species habitat may occur within area
<a href="#">Corythoichthys schultzi</a> Schultz's Pipefish [66205]		Species or species habitat may occur within area
<a href="#">Cosmocampus banneri</a> Roughridge Pipefish [66206]		Species or species habitat may occur within area
<a href="#">Doryrhamphus dactyliophorus</a> Banded Pipefish, Ringed Pipefish [66210]		Species or species habitat may occur within area
<a href="#">Doryrhamphus excisus</a> Bluestripe Pipefish, Indian Blue-stripe Pipefish, Pacific Blue-stripe Pipefish [66211]		Species or species habitat may occur within area



Name	Threatened	Type of Presence
<a href="#">Doryrhamphus janssi</a> Cleaner Pipefish, Janss' Pipefish [66212]		Species or species habitat may occur within area
<a href="#">Filicampus tigris</a> Tiger Pipefish [66217]		Species or species habitat may occur within area
<a href="#">Halicampus brocki</a> Brock's Pipefish [66219]		Species or species habitat may occur within area
<a href="#">Halicampus dunckeri</a> Red-hair Pipefish, Duncker's Pipefish [66220]		Species or species habitat may occur within area
<a href="#">Halicampus grayi</a> Mud Pipefish, Gray's Pipefish [66221]		Species or species habitat may occur within area
<a href="#">Halicampus spirostris</a> Spiny-snout Pipefish [66225]		Species or species habitat may occur within area
<a href="#">Haliichthys taeniophorus</a> Ribboned Pipehorse, Ribboned Seadragon [66226]		Species or species habitat may occur within area
<a href="#">Hippichthys penicillus</a> Beady Pipefish, Steep-nosed Pipefish [66231]		Species or species habitat may occur within area
<a href="#">Hippocampus histrix</a> Spiny Seahorse, Thorny Seahorse [66236]		Species or species habitat may occur within area
<a href="#">Hippocampus kuda</a> Spotted Seahorse, Yellow Seahorse [66237]		Species or species habitat may occur within area
<a href="#">Hippocampus planifrons</a> Flat-face Seahorse [66238]		Species or species habitat may occur within area
<a href="#">Hippocampus spinosissimus</a> Hedgehog Seahorse [66239]		Species or species habitat may occur within area
<a href="#">Micrognathus micronotopterus</a> Tidepool Pipefish [66255]		Species or species habitat may occur within area
<a href="#">Solegnathus hardwickii</a> Pallid Pipehorse, Hardwick's Pipehorse [66272]		Species or species habitat may occur within area
<a href="#">Solegnathus lettiensis</a> Gunther's Pipehorse, Indonesian Pipefish [66273]		Species or species habitat may occur within area
<a href="#">Solenostomus cyanopterus</a> Robust Ghostpipefish, Blue-finned Ghost Pipefish, [66183]		Species or species habitat may occur within area
<a href="#">Syngnathoides biaculeatus</a> Double-end Pipehorse, Double-ended Pipehorse, Alligator Pipefish [66279]		Species or species habitat may occur within area
<a href="#">Trachyrhamphus bicoarctatus</a> Bentstick Pipefish, Bend Stick Pipefish, Short-tailed Pipefish [66280]		Species or species habitat may occur within area

Name	Threatened	Type of Presence
<a href="#">Trachyrhamphus longirostris</a> Straightstick Pipefish, Long-nosed Pipefish, Straight Stick Pipefish [66281]		Species or species habitat may occur within area
<b>Reptiles</b>		
<a href="#">Acalyptophis peronii</a> Horned Seasnake [1114]		Species or species habitat may occur within area
<a href="#">Aipysurus duboisii</a> Dubois' Seasnake [1116]		Species or species habitat may occur within area
<a href="#">Aipysurus eydouxii</a> Spine-tailed Seasnake [1117]		Species or species habitat may occur within area
<a href="#">Aipysurus laevis</a> Olive Seasnake [1120]		Species or species habitat may occur within area
<a href="#">Astrotia stokesii</a> Stokes' Seasnake [1122]		Species or species habitat may occur within area
<a href="#">Caretta caretta</a> Loggerhead Turtle [1763]	Endangered	Species or species habitat likely to occur within area
<a href="#">Chelonia mydas</a> Green Turtle [1765]	Vulnerable	Species or species habitat likely to occur within area
<a href="#">Dermochelys coriacea</a> Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Species or species habitat likely to occur within area
<a href="#">Disteira kingii</a> Spectacled Seasnake [1123]		Species or species habitat may occur within area
<a href="#">Disteira major</a> Olive-headed Seasnake [1124]		Species or species habitat may occur within area
<a href="#">Eretmochelys imbricata</a> Hawksbill Turtle [1766]	Vulnerable	Species or species habitat likely to occur within area
<a href="#">Hydrophis coggeri</a> Slender-necked Seasnake [25925]		Species or species habitat may occur within area
<a href="#">Hydrophis elegans</a> Elegant Seasnake [1104]		Species or species habitat may occur within area
<a href="#">Hydrophis mcdowellii</a> null [25926]		Species or species habitat may occur within area
<a href="#">Hydrophis ornatus</a> Spotted Seasnake, Ornate Reef Seasnake [1111]		Species or species habitat may occur within area
<a href="#">Lapemis hardwickii</a> Spine-bellied Seasnake [1113]		Species or species habitat may occur within area
<a href="#">Lepidochelys olivacea</a> Olive Ridley Turtle, Pacific Ridley Turtle [1767]	Endangered	Species or species habitat likely to occur within area

Name	Threatened	Type of Presence
<a href="#">Natator depressus</a> Flatback Turtle [59257]	Vulnerable	Species or species habitat likely to occur within area
<a href="#">Pelamis platurus</a> Yellow-bellied Seasnake [1091]		Species or species habitat may occur within area
<b>Whales and other Cetaceans</b>		<a href="#">[ Resource Information ]</a>
Name	Status	Type of Presence
<b>Mammals</b>		
<a href="#">Balaenoptera borealis</a> Sei Whale [34]	Vulnerable	Species or species habitat likely to occur within area
<a href="#">Balaenoptera edeni</a> Bryde's Whale [35]		Species or species habitat likely to occur within area
<a href="#">Balaenoptera musculus</a> Blue Whale [36]	Endangered	Species or species habitat likely to occur within area
<a href="#">Balaenoptera physalus</a> Fin Whale [37]	Vulnerable	Species or species habitat likely to occur within area
<a href="#">Delphinus delphis</a> Common Dolphin, Short-beaked Common Dolphin [60]		Species or species habitat may occur within area
<a href="#">Feresa attenuata</a> Pygmy Killer Whale [61]		Species or species habitat may occur within area
<a href="#">Globicephala macrorhynchus</a> Short-finned Pilot Whale [62]		Species or species habitat may occur within area
<a href="#">Grampus griseus</a> Risso's Dolphin, Grampus [64]		Species or species habitat may occur within area
<a href="#">Kogia breviceps</a> Pygmy Sperm Whale [57]		Species or species habitat may occur within area
<a href="#">Kogia simus</a> Dwarf Sperm Whale [58]		Species or species habitat may occur within area
<a href="#">Megaptera novaeangliae</a> Humpback Whale [38]		Species or species habitat known to occur within area
<a href="#">Orcinus orca</a> Killer Whale, Orca [46]		Species or species habitat may occur within area
<a href="#">Peponocephala electra</a> Melon-headed Whale [47]		Species or species habitat may occur within area
<a href="#">Physeter macrocephalus</a> Sperm Whale [59]		Species or species habitat may occur within area
<a href="#">Pseudorca crassidens</a> False Killer Whale [48]		Species or species habitat likely to occur within area

Name	Status	Type of Presence
<a href="#">Stenella attenuata</a> Spotted Dolphin, Pantropical Spotted Dolphin [51]		Species or species habitat may occur within area
<a href="#">Stenella coeruleoalba</a> Striped Dolphin, Euphrosyne Dolphin [52]		Species or species habitat may occur within area
<a href="#">Stenella longirostris</a> Long-snouted Spinner Dolphin [29]		Species or species habitat may occur within area
<a href="#">Steno bredanensis</a> Rough-toothed Dolphin [30]		Species or species habitat may occur within area
<a href="#">Tursiops aduncus (Arafura/Timor Sea populations)</a> Spotted Bottlenose Dolphin (Arafura/Timor Sea populations) [78900]		Species or species habitat may occur within area
<a href="#">Tursiops truncatus s. str.</a> Bottlenose Dolphin [68417]		Species or species habitat may occur within area
<a href="#">Ziphius cavirostris</a> Cuvier's Beaked Whale, Goose-beaked Whale [56]		Species or species habitat may occur within area

## Extra Information

### 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
<a href="#">Continental Slope Demersal Fish Communities</a>	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 qualifications 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

-13.915269 123.334587,-13.915268 123.417915,-13.9986 123.41791,-13.9986 123.335,-14.08194 123.33459,-14.08194 123.25125,-14.16527 123.251125,-14.16527 123.001251,-14.081938 123.001251,-14.0811937 123.167915,-13.9986 123.16792,-13.9986 123.3346,-13.91527 123.334587,-13.915269 123.33459,-13.915269 123.334587

# 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.

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 [Environment Assessments](#) and the EPBC Act including significance guidelines, forms and application process details.

Report created: 14/03/22 16:15:22

[Summary](#)

[Details](#)

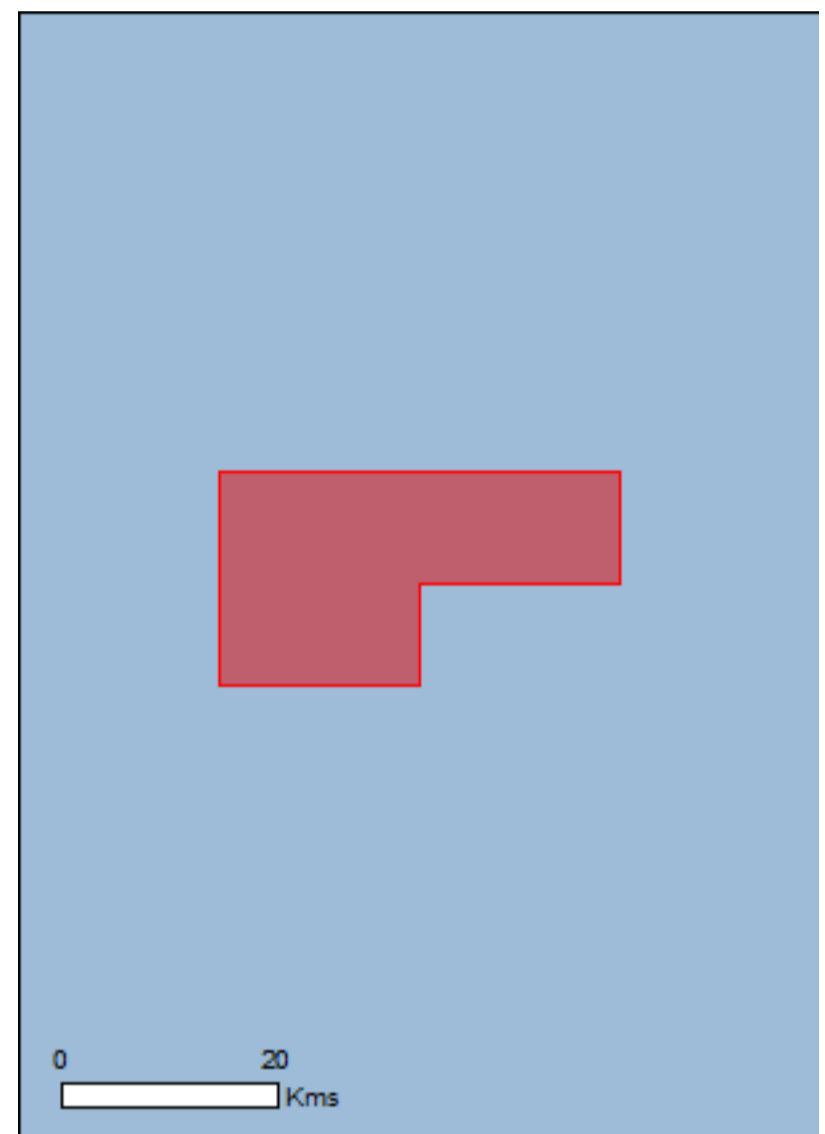
[Matters of NES](#)

[Other Matters Protected by the EPBC Act](#)

[Extra Information](#)

[Caveat](#)

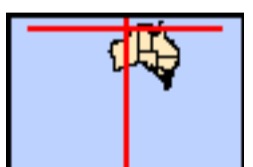
[Acknowledgements](#)



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[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 [Administrative Guidelines on Significance](#).

<a href="#">World Heritage Properties:</a>	None
<a href="#">National Heritage Places:</a>	None
<a href="#">Wetlands of International Importance:</a>	None
<a href="#">Great Barrier Reef Marine Park:</a>	None
<a href="#">Commonwealth Marine Area:</a>	1
<a href="#">Listed Threatened Ecological Communities:</a>	None
<a href="#">Listed Threatened Species:</a>	18
<a href="#">Listed Migratory Species:</a>	33

## 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 [permit](#) 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.

<a href="#">Commonwealth Land:</a>	None
<a href="#">Commonwealth Heritage Places:</a>	None
<a href="#">Listed Marine Species:</a>	60
<a href="#">Whales and Other Cetaceans:</a>	22
<a href="#">Critical Habitats:</a>	None
<a href="#">Commonwealth Reserves Terrestrial:</a>	None
<a href="#">Australian Marine Parks:</a>	None

## Extra Information

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

<a href="#">State and Territory Reserves:</a>	None
<a href="#">Regional Forest Agreements:</a>	None
<a href="#">Invasive Species:</a>	None
<a href="#">Nationally Important Wetlands:</a>	None
<a href="#">Key Ecological Features (Marine)</a>	1



# 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

### 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](#)

### Listed Threatened Species

[\[ Resource Information \]](#)

Name	Status	Type of Presence
<b>Birds</b>		
<a href="#">Anous tenuirostris melanops</a> Australian Lesser Noddy [26000]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
<a href="#">Calidris canutus</a> Red Knot, Knot [855]	Endangered	Species or species habitat may occur within area
<a href="#">Calidris ferruginea</a> Curlew Sandpiper [856]	Critically Endangered	Species or species habitat may occur within area
<a href="#">Numenius madagascariensis</a> Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat may occur within area
<a href="#">Papasula abbotti</a> Abbott's Booby [59297]	Endangered	Species or species habitat may occur within area
<b>Mammals</b>		
<a href="#">Balaenoptera borealis</a> Sei Whale [34]	Vulnerable	Species or species habitat likely to occur within area
<a href="#">Balaenoptera musculus</a> Blue Whale [36]	Endangered	Species or species habitat likely to occur within area
<a href="#">Balaenoptera physalus</a> Fin Whale [37]	Vulnerable	Species or species habitat likely to occur within area

#### Reptiles

Name	Status	Type of Presence
<a href="#">Caretta caretta</a> Loggerhead Turtle [1763]	Endangered	Species or species habitat likely to occur within area
<a href="#">Chelonia mydas</a> Green Turtle [1765]	Vulnerable	Species or species habitat likely to occur within area
<a href="#">Dermochelys coriacea</a> Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Species or species habitat likely to occur within area
<a href="#">Eretmochelys imbricata</a> Hawksbill Turtle [1766]	Vulnerable	Species or species habitat likely to occur within area
<a href="#">Lepidochelys olivacea</a> Olive Ridley Turtle, Pacific Ridley Turtle [1767]	Endangered	Species or species habitat likely to occur within area
<a href="#">Natator depressus</a> Flatback Turtle [59257]	Vulnerable	Species or species habitat known to occur within area

## Sharks

<a href="#">Carcharodon carcharias</a> White Shark, Great White Shark [64470]	Vulnerable	Species or species habitat may occur within area
<a href="#">Glyphis garricki</a> Northern River Shark, New Guinea River Shark [82454]	Endangered	Species or species habitat may occur within area
<a href="#">Pristis zijsron</a> Green Sawfish, Dindagubba, Narrowsnout Sawfish [68442]	Vulnerable	Species or species habitat known to occur within area
<a href="#">Rhincodon typus</a> 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 the EPBC Act - Threatened Species list.

Name	Threatened	Type of Presence
<b>Migratory Marine Birds</b>		
<a href="#">Anous stolidus</a> Common Noddy [825]		Species or species habitat may occur within area
<a href="#">Calonectris leucomelas</a> Streaked Shearwater [1077]		Species or species habitat known to occur within area
<a href="#">Fregata ariel</a> Lesser Frigatebird, Least Frigatebird [1012]		Species or species habitat likely to occur within area
<a href="#">Fregata minor</a> Great Frigatebird, Greater Frigatebird [1013]		Foraging, feeding or related behaviour likely to occur within area
<a href="#">Phaethon lepturus</a> White-tailed Tropicbird [1014]		Species or species habitat likely to occur within area

## Migratory Marine Species

<a href="#">Anoxypristis cuspidata</a> Narrow Sawfish, Knifetooth Sawfish [68448]		Species or species habitat may occur within area
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Name	Threatened	Type of Presence
<a href="#">Balaenoptera borealis</a> Sei Whale [34]	Vulnerable	Species or species habitat likely to occur within area
<a href="#">Balaenoptera edeni</a> Bryde's Whale [35]		Species or species habitat likely to occur within area
<a href="#">Balaenoptera musculus</a> Blue Whale [36]	Endangered	Species or species habitat likely to occur within area
<a href="#">Balaenoptera physalus</a> Fin Whale [37]	Vulnerable	Species or species habitat likely to occur within area
<a href="#">Carcharhinus longimanus</a> Oceanic Whitetip Shark [84108]		Species or species habitat may occur within area
<a href="#">Carcharodon carcharias</a> White Shark, Great White Shark [64470]	Vulnerable	Species or species habitat may occur within area
<a href="#">Caretta caretta</a> Loggerhead Turtle [1763]	Endangered	Species or species habitat likely to occur within area
<a href="#">Chelonia mydas</a> Green Turtle [1765]	Vulnerable	Species or species habitat likely to occur within area
<a href="#">Dermochelys coriacea</a> Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Species or species habitat likely to occur within area
<a href="#">Eretmochelys imbricata</a> Hawksbill Turtle [1766]	Vulnerable	Species or species habitat likely to occur within area
<a href="#">Isurus oxyrinchus</a> Shortfin Mako, Mako Shark [79073]		Species or species habitat likely to occur within area
<a href="#">Isurus paucus</a> Longfin Mako [82947]		Species or species habitat likely to occur within area
<a href="#">Lepidochelys olivacea</a> Olive Ridley Turtle, Pacific Ridley Turtle [1767]	Endangered	Species or species habitat likely to occur within area
<a href="#">Manta birostris</a> Giant Manta Ray, Chevron Manta Ray, Pacific Manta Ray, Pelagic Manta Ray, Oceanic Manta Ray [84995]		Species or species habitat may occur within area
<a href="#">Megaptera novaeangliae</a> Humpback Whale [38]		Species or species habitat likely to occur within area
<a href="#">Natator depressus</a> Flatback Turtle [59257]	Vulnerable	Species or species habitat known to occur within area
<a href="#">Orcinus orca</a> Killer Whale, Orca [46]		Species or species habitat may occur within area
<a href="#">Physeter macrocephalus</a> Sperm Whale [59]		Species or species habitat may occur within area

Name	Threatened	Type of Presence
<a href="#">Pristis zijsron</a> Green Sawfish, Dindagubba, Narrowsnout Sawfish [68442]	Vulnerable	Species or species habitat known to occur within area
<a href="#">Rhincodon typus</a> Whale Shark [66680]	Vulnerable	Species or species habitat may occur within area
<a href="#">Tursiops aduncus (Arafura/Timor Sea populations)</a> Spotted Bottlenose Dolphin (Arafura/Timor Sea populations) [78900]		Species or species habitat may occur within area
<b>Migratory Wetlands Species</b>		
<a href="#">Actitis hypoleucos</a> Common Sandpiper [59309]		Species or species habitat may occur within area
<a href="#">Calidris acuminata</a> Sharp-tailed Sandpiper [874]		Species or species habitat may occur within area
<a href="#">Calidris canutus</a> Red Knot, Knot [855]	Endangered	Species or species habitat may occur within area
<a href="#">Calidris ferruginea</a> Curlew Sandpiper [856]	Critically Endangered	Species or species habitat may occur within area
<a href="#">Calidris melanotos</a> Pectoral Sandpiper [858]		Species or species habitat may occur within area
<a href="#">Numenius madagascariensis</a> Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat may occur within area

## Other Matters Protected by the EPBC Act

Listed Marine Species		<a href="#">[ Resource Information ]</a>
* Species is listed under a different scientific name on the EPBC Act - Threatened Species list.		
Name	Threatened	Type of Presence
<b>Birds</b>		
<a href="#">Actitis hypoleucos</a> Common Sandpiper [59309]		Species or species habitat may occur within area
<a href="#">Anous stolidus</a> Common Noddy [825]		Species or species habitat may occur within area
<a href="#">Anous tenuirostris melanops</a> Australian Lesser Noddy [26000]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
<a href="#">Calidris acuminata</a> Sharp-tailed Sandpiper [874]		Species or species habitat may occur within area
<a href="#">Calidris canutus</a> Red Knot, Knot [855]	Endangered	Species or species habitat may occur within area
<a href="#">Calidris ferruginea</a> Curlew Sandpiper [856]	Critically Endangered	Species or species habitat may occur within area

Name	Threatened	Type of Presence
<a href="#">Calidris melanotos</a> Pectoral Sandpiper [858]		Species or species habitat may occur within area
<a href="#">Calonectris leucomelas</a> Streaked Shearwater [1077]		Species or species habitat known to occur within area
<a href="#">Fregata ariel</a> Lesser Frigatebird, Least Frigatebird [1012]		Species or species habitat likely to occur within area
<a href="#">Fregata minor</a> Great Frigatebird, Greater Frigatebird [1013]		Foraging, feeding or related behaviour likely to occur within area
<a href="#">Numenius madagascariensis</a> Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat may occur within area
<a href="#">Papasula abbotti</a> Abbott's Booby [59297]	Endangered	Species or species habitat may occur within area
<a href="#">Phaethon lepturus</a> White-tailed Tropicbird [1014]		Species or species habitat likely to occur within area
<b>Fish</b>		
<a href="#">Bhanotia fasciolata</a> Corrugated Pipefish, Barbed Pipefish [66188]		Species or species habitat may occur within area
<a href="#">Campichthys tricarinatus</a> Three-keel Pipefish [66192]		Species or species habitat may occur within area
<a href="#">Choeroichthys brachysoma</a> Pacific Short-bodied Pipefish, Short-bodied Pipefish [66194]		Species or species habitat may occur within area
<a href="#">Choeroichthys suillus</a> Pig-snouted Pipefish [66198]		Species or species habitat may occur within area
<a href="#">Corythoichthys amplexus</a> Fijian Banded Pipefish, Brown-banded Pipefish [66199]		Species or species habitat may occur within area
<a href="#">Corythoichthys flavofasciatus</a> Reticulate Pipefish, Yellow-banded Pipefish, Network Pipefish [66200]		Species or species habitat may occur within area
<a href="#">Corythoichthys intestinalis</a> Australian Messmate Pipefish, Banded Pipefish [66202]		Species or species habitat may occur within area
<a href="#">Corythoichthys schultzi</a> Schultz's Pipefish [66205]		Species or species habitat may occur within area
<a href="#">Cosmocampus banneri</a> Roughridge Pipefish [66206]		Species or species habitat may occur within area
<a href="#">Doryrhamphus dactyliophorus</a> Banded Pipefish, Ringed Pipefish [66210]		Species or species habitat may occur within area
<a href="#">Doryrhamphus excisus</a> Bluestripe Pipefish, Indian Blue-stripe Pipefish, Pacific Blue-stripe Pipefish [66211]		Species or species habitat may occur within area

Name	Threatened	Type of Presence
<a href="#">Doryrhamphus janssi</a> Cleaner Pipefish, Janss' Pipefish [66212]		Species or species habitat may occur within area
<a href="#">Filicampus tigris</a> Tiger Pipefish [66217]		Species or species habitat may occur within area
<a href="#">Halicampus brocki</a> Brock's Pipefish [66219]		Species or species habitat may occur within area
<a href="#">Halicampus dunckeri</a> Red-hair Pipefish, Duncker's Pipefish [66220]		Species or species habitat may occur within area
<a href="#">Halicampus grayi</a> Mud Pipefish, Gray's Pipefish [66221]		Species or species habitat may occur within area
<a href="#">Halicampus spirostris</a> Spiny-snout Pipefish [66225]		Species or species habitat may occur within area
<a href="#">Haliichthys taeniophorus</a> Ribboned Pipehorse, Ribboned Seadragon [66226]		Species or species habitat may occur within area
<a href="#">Hippichthys penicillus</a> Beady Pipefish, Steep-nosed Pipefish [66231]		Species or species habitat may occur within area
<a href="#">Hippocampus histrix</a> Spiny Seahorse, Thorny Seahorse [66236]		Species or species habitat may occur within area
<a href="#">Hippocampus kuda</a> Spotted Seahorse, Yellow Seahorse [66237]		Species or species habitat may occur within area
<a href="#">Hippocampus planifrons</a> Flat-face Seahorse [66238]		Species or species habitat may occur within area
<a href="#">Hippocampus spinosissimus</a> Hedgehog Seahorse [66239]		Species or species habitat may occur within area
<a href="#">Micrognathus micronotopterus</a> Tidepool Pipefish [66255]		Species or species habitat may occur within area
<a href="#">Solegnathus hardwickii</a> Pallid Pipehorse, Hardwick's Pipehorse [66272]		Species or species habitat may occur within area
<a href="#">Solegnathus lettiensis</a> Gunther's Pipehorse, Indonesian Pipefish [66273]		Species or species habitat may occur within area
<a href="#">Solenostomus cyanopterus</a> Robust Ghostpipefish, Blue-finned Ghost Pipefish, [66183]		Species or species habitat may occur within area
<a href="#">Syngnathoides biaculeatus</a> Double-end Pipehorse, Double-ended Pipehorse, Alligator Pipefish [66279]		Species or species habitat may occur within area
<a href="#">Trachyrhamphus bicoarctatus</a> Bentstick Pipefish, Bend Stick Pipefish, Short-tailed Pipefish [66280]		Species or species habitat may occur within area

Name	Threatened	Type of Presence
<a href="#">Trachyrhamphus longirostris</a> Straightstick Pipefish, Long-nosed Pipefish, Straight Stick Pipefish [66281]		Species or species habitat may occur within area
<b>Reptiles</b>		
<a href="#">Acalyptophis peronii</a> Horned Seasnake [1114]		Species or species habitat may occur within area
<a href="#">Aipysurus duboisii</a> Dubois' Seasnake [1116]		Species or species habitat may occur within area
<a href="#">Aipysurus laevis</a> Olive Seasnake [1120]		Species or species habitat may occur within area
<a href="#">Astrotia stokesii</a> Stokes' Seasnake [1122]		Species or species habitat may occur within area
<a href="#">Caretta caretta</a> Loggerhead Turtle [1763]	Endangered	Species or species habitat likely to occur within area
<a href="#">Chelonia mydas</a> Green Turtle [1765]	Vulnerable	Species or species habitat likely to occur within area
<a href="#">Dermochelys coriacea</a> Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Species or species habitat likely to occur within area
<a href="#">Disteira kingii</a> Spectacled Seasnake [1123]		Species or species habitat may occur within area
<a href="#">Disteira major</a> Olive-headed Seasnake [1124]		Species or species habitat may occur within area
<a href="#">Eretmochelys imbricata</a> Hawksbill Turtle [1766]	Vulnerable	Species or species habitat likely to occur within area
<a href="#">Hydrophis coggeri</a> Slender-necked Seasnake [25925]		Species or species habitat may occur within area
<a href="#">Hydrophis elegans</a> Elegant Seasnake [1104]		Species or species habitat may occur within area
<a href="#">Hydrophis ornatus</a> Spotted Seasnake, Ornate Reef Seasnake [1111]		Species or species habitat may occur within area
<a href="#">Lapemis hardwickii</a> Spine-bellied Seasnake [1113]		Species or species habitat may occur within area
<a href="#">Lepidochelys olivacea</a> Olive Ridley Turtle, Pacific Ridley Turtle [1767]	Endangered	Species or species habitat likely to occur within area
<a href="#">Natator depressus</a> Flatback Turtle [59257]	Vulnerable	Species or species habitat known to occur within area
<a href="#">Pelamis platurus</a> Yellow-bellied Seasnake [1091]		Species or species habitat may occur within area

Whales and other Cetaceans		[ Resource Information ]
Name	Status	Type of Presence
<b>Mammals</b>		
<a href="#">Balaenoptera borealis</a> Sei Whale [34]	Vulnerable	Species or species habitat likely to occur within area
<a href="#">Balaenoptera edeni</a> Bryde's Whale [35]		Species or species habitat likely to occur within area
<a href="#">Balaenoptera musculus</a> Blue Whale [36]	Endangered	Species or species habitat likely to occur within area
<a href="#">Balaenoptera physalus</a> Fin Whale [37]	Vulnerable	Species or species habitat likely to occur within area
<a href="#">Delphinus delphis</a> Common Dolphin, Short-beaked Common Dolphin [60]		Species or species habitat may occur within area
<a href="#">Feresa attenuata</a> Pygmy Killer Whale [61]		Species or species habitat may occur within area
<a href="#">Globicephala macrorhynchus</a> Short-finned Pilot Whale [62]		Species or species habitat may occur within area
<a href="#">Grampus griseus</a> Risso's Dolphin, Grampus [64]		Species or species habitat may occur within area
<a href="#">Kogia breviceps</a> Pygmy Sperm Whale [57]		Species or species habitat may occur within area
<a href="#">Kogia simus</a> Dwarf Sperm Whale [58]		Species or species habitat may occur within area
<a href="#">Megaptera novaeangliae</a> Humpback Whale [38]		Species or species habitat likely to occur within area
<a href="#">Orcinus orca</a> Killer Whale, Orca [46]		Species or species habitat may occur within area
<a href="#">Peponocephala electra</a> Melon-headed Whale [47]		Species or species habitat may occur within area
<a href="#">Physeter macrocephalus</a> Sperm Whale [59]		Species or species habitat may occur within area
<a href="#">Pseudorca crassidens</a> False Killer Whale [48]		Species or species habitat likely to occur within area
<a href="#">Stenella attenuata</a> Spotted Dolphin, Pantropical Spotted Dolphin [51]		Species or species habitat may occur within area
<a href="#">Stenella coeruleoalba</a> Striped Dolphin, Euphrosyne Dolphin [52]		Species or species habitat may occur within area
<a href="#">Stenella longirostris</a> Long-snouted Spinner Dolphin [29]		Species or species



Name	Status	Type of Presence
<a href="#">Steno bredanensis</a> Rough-toothed Dolphin [30]		habitat may occur within area  Species or species habitat may occur within area
<a href="#">Tursiops aduncus (Arafura/Timor Sea populations)</a> Spotted Bottlenose Dolphin (Arafura/Timor Sea populations) [78900]		Species or species habitat may occur within area
<a href="#">Tursiops truncatus s. str.</a> Bottlenose Dolphin [68417]		Species or species habitat may occur within area
<a href="#">Ziphius cavirostris</a> Cuvier's Beaked Whale, Goose-beaked Whale [56]		Species or species habitat may occur within area

## Extra Information

### 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
<a href="#">Continental Slope Demersal Fish Communities</a>	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 qualifications 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

-13.32364 123.334587,-13.323638 123.667908,-13.415267 123.667915,-13.415268 123.501251,-13.498601 123.501251,-13.498602 123.334587,-13.32364 123.334587

# 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.

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 [Environment Assessments](#) and the EPBC Act including significance guidelines, forms and application process details.

Report created: 16/03/22 14:22:51

[Summary](#)

[Details](#)

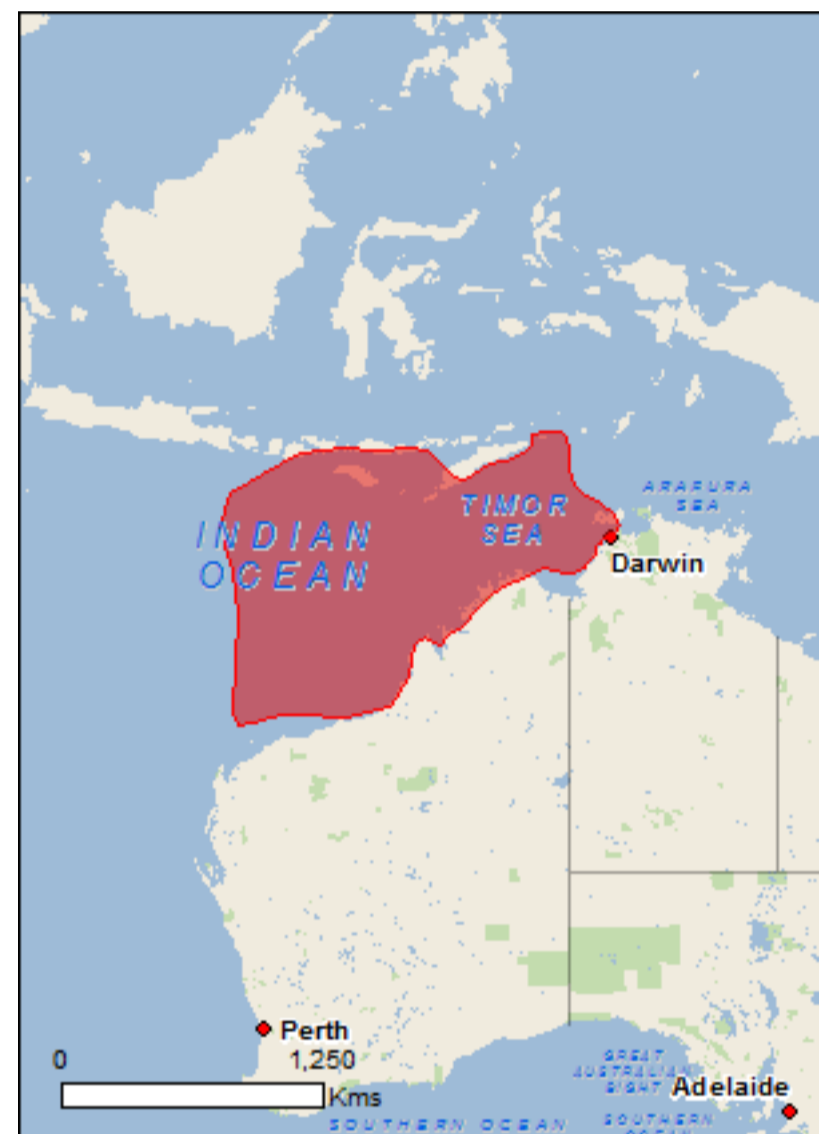
[Matters of NES](#)

[Other Matters Protected by the EPBC Act](#)

[Extra Information](#)

[Caveat](#)

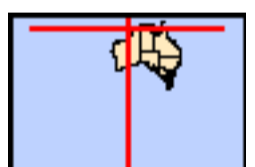
[Acknowledgements](#)



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[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 [Administrative Guidelines on Significance](#).

<a href="#">World Heritage Properties:</a>	None
<a href="#">National Heritage Places:</a>	1
<a href="#">Wetlands of International Importance:</a>	3
<a href="#">Great Barrier Reef Marine Park:</a>	None
<a href="#">Commonwealth Marine Area:</a>	2
<a href="#">Listed Threatened Ecological Communities:</a>	1
<a href="#">Listed Threatened Species:</a>	70
<a href="#">Listed Migratory Species:</a>	89

## 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 [permit](#) 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.

<a href="#">Commonwealth Land:</a>	4
<a href="#">Commonwealth Heritage Places:</a>	4
<a href="#">Listed Marine Species:</a>	156
<a href="#">Whales and Other Cetaceans:</a>	30
<a href="#">Critical Habitats:</a>	None
<a href="#">Commonwealth Reserves Terrestrial:</a>	None
<a href="#">Australian Marine Parks:</a>	18

## Extra Information

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

<a href="#">State and Territory Reserves:</a>	33
<a href="#">Regional Forest Agreements:</a>	None
<a href="#">Invasive Species:</a>	30
<a href="#">Nationally Important Wetlands:</a>	8
<a href="#">Key Ecological Features (Marine)</a>	12

# Details

## Matters of National Environmental Significance

National Heritage Properties		[ <a href="#">Resource Information</a> ]
Name	State	Status
Natural		
<a href="#">The West Kimberley</a>	WA	Listed place

Wetlands of International Importance (Ramsar)		[ <a href="#">Resource Information</a> ]
Name		Proximity
<a href="#">Ashmore reef national nature reserve</a>		Within Ramsar site
<a href="#">Eighty-mile beach</a>		Within Ramsar site
<a href="#">Roebuck bay</a>		Within Ramsar site

Commonwealth Marine Area	[ <a href="#">Resource Information</a> ]
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	[ <a href="#">Resource Information</a> ]
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
<a href="#">North</a>
<a href="#">North-west</a>

Listed Threatened Ecological Communities	[ <a href="#">Resource Information</a> ]
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
<a href="#">Monsoon vine thickets on the coastal sand dunes of Dampier Peninsula</a>	Endangered	Community likely to occur within area

Listed Threatened Species	[ <a href="#">Resource Information</a> ]	
Name	Status	Type of Presence
Birds		
<a href="#">Anous tenuirostris melanops</a> Australian Lesser Noddy [26000]	Vulnerable	Breeding known to occur within area
<a href="#">Calidris canutus</a> Red Knot, Knot [855]	Endangered	Species or species habitat known to occur within area
<a href="#">Calidris ferruginea</a> Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area
<a href="#">Calidris tenuirostris</a> Great Knot [862]	Critically Endangered	Roosting known to occur within area
<a href="#">Charadrius leschenaultii</a> Greater Sand Plover, Large Sand Plover [877]	Vulnerable	Species or species habitat known to occur

Name	Status	Type of Presence within area
<a href="#">Charadrius mongolus</a> Lesser Sand Plover, Mongolian Plover [879]	Endangered	Roosting known to occur within area
<a href="#">Erythrotriorchis radiatus</a> Red Goshawk [942]	Vulnerable	Species or species habitat known to occur within area
<a href="#">Erythrura gouldiae</a> Gouldian Finch [413]	Endangered	Species or species habitat known to occur within area
<a href="#">Falco hypoleucos</a> Grey Falcon [929]	Vulnerable	Species or species habitat known to occur within area
<a href="#">Falcunculus frontatus whitei</a> Crested Shrike-tit (northern), Northern Shrike-tit [26013]	Vulnerable	Species or species habitat known to occur within area
<a href="#">Geophaps smithii blaauwi</a> Partridge Pigeon (western) [66501]	Vulnerable	Species or species habitat likely to occur within area
<a href="#">Geophaps smithii smithii</a> Partridge Pigeon (eastern) [64441]	Vulnerable	Species or species habitat known to occur within area
<a href="#">Limosa lapponica baueri</a> Nunivak Bar-tailed Godwit, Western Alaskan Bar-tailed Godwit [86380]	Vulnerable	Species or species habitat known to occur within area
<a href="#">Limosa lapponica menzbieri</a> Northern Siberian Bar-tailed Godwit, Russkoye Bar-tailed Godwit [86432]	Critically Endangered	Species or species habitat known to occur within area
<a href="#">Macronectes giganteus</a> Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area
<a href="#">Melanodryas cucullata melvillensis</a> Tiwi Islands Hooded Robin, Hooded Robin (Tiwi Islands) [67092]	Critically Endangered	Species or species habitat known to occur within area
<a href="#">Mirafrja javanica melvillensis</a> Horsfield's Bushlark (Tiwi Islands) [81011]	Vulnerable	Species or species habitat known to occur within area
<a href="#">Numenius madagascariensis</a> Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat known to occur within area
<a href="#">Papasula abbotti</a> Abbott's Booby [59297]	Endangered	Species or species habitat may occur within area
<a href="#">Pezoporus occidentalis</a> Night Parrot [59350]	Endangered	Species or species habitat may occur within area
<a href="#">Phaethon lepturus fulvus</a> Christmas Island White-tailed Tropicbird, Golden Bosunbird [26021]	Endangered	Species or species habitat may occur within area
<a href="#">Polytelis alexandrae</a> Princess Parrot, Alexandra's Parrot [758]	Vulnerable	Species or species habitat known to occur within area
<a href="#">Rostratula australis</a> Australian Painted Snipe [77037]	Endangered	Species or species habitat known to occur within area

Name	Status	Type of Presence
<a href="#">Sternula nereis nereis</a> Australian Fairy Tern [82950]	Vulnerable	Species or species habitat may occur within area
<a href="#">Tyto novaehollandiae kimberli</a> Masked Owl (northern) [26048]	Vulnerable	Species or species habitat likely to occur within area
<a href="#">Tyto novaehollandiae melvillensis</a> Tiwi Masked Owl, Tiwi Islands Masked Owl [26049]	Endangered	Species or species habitat known to occur within area
<b>Frogs</b>		
<a href="#">Uperoleia daviesae</a> Howard River Toadlet, Davies's Toadlet [85375]	Vulnerable	Species or species habitat may occur within area
<b>Mammals</b>		
<a href="#">Antechinus bellus</a> Fawn Antechinus [344]	Vulnerable	Species or species habitat known to occur within area
<a href="#">Balaenoptera borealis</a> Sei Whale [34]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
<a href="#">Balaenoptera musculus</a> Blue Whale [36]	Endangered	Migration route known to occur within area
<a href="#">Balaenoptera physalus</a> Fin Whale [37]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
<a href="#">Conilurus penicillatus</a> Brush-tailed Rabbit-rat, Brush-tailed Tree-rat, Pakooma [132]	Vulnerable	Species or species habitat known to occur within area
<a href="#">Dasyurus hallucatus</a> Northern Quoll, Digul [Gogo-Yimidir], Wijingadda [Dambimangari], Wiminji [Martu] [331]	Endangered	Species or species habitat known to occur within area
<a href="#">Isoodon auratus auratus</a> Golden Bandicoot (mainland) [66665]	Vulnerable	Species or species habitat likely to occur within area
<a href="#">Macroderma gigas</a> Ghost Bat [174]	Vulnerable	Species or species habitat known to occur within area
<a href="#">Macrotis lagotis</a> Greater Bilby [282]	Vulnerable	Species or species habitat known to occur within area
<a href="#">Mesembriomys gouldii gouldii</a> Black-footed Tree-rat (Kimberley and mainland Northern Territory), Djintamoonga, Manbul [87618]	Endangered	Species or species habitat likely to occur within area
<a href="#">Mesembriomys gouldii melvillensis</a> Black-footed Tree-rat (Melville Island) [87619]	Vulnerable	Species or species habitat known to occur within area
<a href="#">Petrogale concinna canescens</a> Nabarlek (Top End) [87606]	Endangered	Species or species habitat may occur within area
<a href="#">Petrogale concinna monastria</a> Nabarlek (Kimberley) [87607]	Endangered	Species or species habitat known to occur within area
<a href="#">Phascogale pirata</a> Northern Brush-tailed Phascogale [82954]	Vulnerable	Species or species habitat known to occur within area



Name	Status	Type of Presence
<a href="#">Phascogale tapoatafa kimberleyensis</a> Kimberley brush-tailed phascogale, Brush-tailed Phascogale (Kimberley) [88453]	Vulnerable	Species or species habitat known to occur within area
<a href="#">Saccolaimus saccolaimus nudicluniatus</a> Bare-rumped Sheath-tailed Bat, Bare-rumped Sheathtail Bat [66889]	Vulnerable	Species or species habitat likely to occur within area
<a href="#">Sminthopsis butleri</a> Butler's Dunnart [302]	Vulnerable	Species or species habitat known to occur within area
<a href="#">Trichosurus vulpecula arnhemensis</a> Northern Brushtail Possum [83091]	Vulnerable	Species or species habitat known to occur within area
<a href="#">Xeromys myoides</a> Water Mouse, False Water Rat, Yirrkoo [66]	Vulnerable	Species or species habitat known to occur within area
<b>Plants</b>		
<a href="#">Burmattia sp. Bathurst Island (R.Fensham 1021)</a> [82017]	Endangered	Species or species habitat likely to occur within area
<a href="#">Hoya australis subsp. oramicola</a> a vine [55436]	Vulnerable	Species or species habitat known to occur within area
<a href="#">Mitrella tiwiensis</a> a vine [82029]	Vulnerable	Species or species habitat likely to occur within area
<a href="#">Seringia exastia</a> Fringed Fire-bush [88920]	Critically Endangered	Species or species habitat known to occur within area
<a href="#">Typhonium jonesii</a> a herb [62412]	Endangered	Species or species habitat known to occur within area
<a href="#">Typhonium mirabile</a> a herb [79227]	Endangered	Species or species habitat known to occur within area
<a href="#">Xylopia monosperma</a> a shrub [82030]	Endangered	Species or species habitat known to occur within area
<b>Reptiles</b>		
<a href="#">Acanthophis hawkei</a> Plains Death Adder [83821]	Vulnerable	Species or species habitat likely to occur within area
<a href="#">Aipysurus apraefrontalis</a> Short-nosed Seasnake [1115]	Critically Endangered	Species or species habitat known to occur within area
<a href="#">Aipysurus foliosquama</a> Leaf-scaled Seasnake [1118]	Critically Endangered	Species or species habitat known to occur within area
<a href="#">Caretta caretta</a> Loggerhead Turtle [1763]	Endangered	Foraging, feeding or related behaviour known to occur within area
<a href="#">Chelonia mydas</a> Green Turtle [1765]	Vulnerable	Breeding known to occur within area
<a href="#">Dermochelys coriacea</a> Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Breeding likely to occur within area

Name	Status	Type of Presence
<a href="#">Eretmochelys imbricata</a> Hawksbill Turtle [1766]	Vulnerable	Breeding known to occur within area
<a href="#">Lepidochelys olivacea</a> Olive Ridley Turtle, Pacific Ridley Turtle [1767]	Endangered	Breeding known to occur within area
<a href="#">Natator depressus</a> Flatback Turtle [59257]	Vulnerable	Breeding known to occur within area
<b>Sharks</b>		
<a href="#">Carcharias taurus (west coast population)</a> Grey Nurse Shark (west coast population) [68752]	Vulnerable	Species or species habitat likely to occur within area
<a href="#">Carcharodon carcharias</a> White Shark, Great White Shark [64470]	Vulnerable	Species or species habitat may occur within area
<a href="#">Glyphis garricki</a> Northern River Shark, New Guinea River Shark [82454]	Endangered	Breeding likely to occur within area
<a href="#">Glyphis glyphis</a> Speartooth Shark [82453]	Critically Endangered	Species or species habitat known to occur within area
<a href="#">Pristis clavata</a> Dwarf Sawfish, Queensland Sawfish [68447]	Vulnerable	Breeding known to occur within area
<a href="#">Pristis pristis</a> Freshwater Sawfish, Largetooth Sawfish, River Sawfish, Leichhardt's Sawfish, Northern Sawfish [60756]	Vulnerable	Species or species habitat known to occur within area
<a href="#">Pristis zijsron</a> Green Sawfish, Dindagubba, Narrowsnout Sawfish [68442]	Vulnerable	Breeding known to occur within area
<a href="#">Rhincodon typus</a> Whale Shark [66680]	Vulnerable	Foraging, feeding or related behaviour known to occur within area

### Listed Migratory Species [\[ Resource Information \]](#)

\* Species is listed under a different scientific name on the EPBC Act - Threatened Species list.

Name	Threatened	Type of Presence
<b>Migratory Marine Birds</b>		
<a href="#">Anous stolidus</a> Common Noddy [825]		Breeding known to occur within area
<a href="#">Apus pacificus</a> Fork-tailed Swift [678]		Species or species habitat likely to occur within area
<a href="#">Ardenna pacifica</a> Wedge-tailed Shearwater [84292]		Breeding known to occur within area
<a href="#">Calonectris leucomelas</a> Streaked Shearwater [1077]		Species or species habitat known to occur within area
<a href="#">Fregata ariel</a> Lesser Frigatebird, Least Frigatebird [1012]		Breeding known to occur within area
<a href="#">Fregata minor</a> Great Frigatebird, Greater Frigatebird [1013]		Breeding known to occur within area
<a href="#">Hydroprogne caspia</a> Caspian Tern [808]		Breeding known to occur within area
<a href="#">Macronectes giganteus</a> Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area

Name	Threatened	Type of Presence
<a href="#">Onychoprion anaethetus</a> Bridled Tern [82845]		Breeding known to occur within area
<a href="#">Phaethon lepturus</a> White-tailed Tropicbird [1014]		Breeding known to occur within area
<a href="#">Phaethon rubricauda</a> Red-tailed Tropicbird [994]		Breeding known to occur within area
<a href="#">Sterna dougallii</a> Roseate Tern [817]		Breeding known to occur within area
<a href="#">Sternula albifrons</a> Little Tern [82849]		Breeding known to occur within area
<a href="#">Sula dactylatra</a> Masked Booby [1021]		Breeding known to occur within area
<a href="#">Sula leucogaster</a> Brown Booby [1022]		Breeding known to occur within area
<a href="#">Sula sula</a> Red-footed Booby [1023]		Breeding known to occur within area
<b>Migratory Marine Species</b>		
<a href="#">Anoxypristis cuspidata</a> Narrow Sawfish, Knifetooth Sawfish [68448]		Species or species habitat known to occur within area
<a href="#">Balaenoptera borealis</a> Sei Whale [34]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
<a href="#">Balaenoptera edeni</a> Bryde's Whale [35]		Species or species habitat likely to occur within area
<a href="#">Balaenoptera musculus</a> Blue Whale [36]	Endangered	Migration route known to occur within area
<a href="#">Balaenoptera physalus</a> Fin Whale [37]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
<a href="#">Carcharhinus longimanus</a> Oceanic Whitetip Shark [84108]		Species or species habitat likely to occur within area
<a href="#">Carcharodon carcharias</a> White Shark, Great White Shark [64470]	Vulnerable	Species or species habitat may occur within area
<a href="#">Caretta caretta</a> Loggerhead Turtle [1763]	Endangered	Foraging, feeding or related behaviour known to occur within area
<a href="#">Chelonia mydas</a> Green Turtle [1765]	Vulnerable	Breeding known to occur within area
<a href="#">Crocodylus porosus</a> Salt-water Crocodile, Estuarine Crocodile [1774]		Species or species habitat likely to occur within area
<a href="#">Dermochelys coriacea</a> Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Breeding likely to occur within area
<a href="#">Dugong dugon</a> Dugong [28]		Breeding known to occur within area
<a href="#">Eretmochelys imbricata</a> Hawksbill Turtle [1766]	Vulnerable	Breeding known to occur within area

Name	Threatened	Type of Presence
<a href="#">Isurus oxyrinchus</a> Shortfin Mako, Mako Shark [79073]		Species or species habitat likely to occur within area
<a href="#">Isurus paucus</a> Longfin Mako [82947]		Species or species habitat likely to occur within area
<a href="#">Lepidochelys olivacea</a> Olive Ridley Turtle, Pacific Ridley Turtle [1767]	Endangered	Breeding known to occur within area
<a href="#">Manta alfredi</a> 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
<a href="#">Manta birostris</a> 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
<a href="#">Megaptera novaeangliae</a> Humpback Whale [38]		Breeding known to occur within area
<a href="#">Natator depressus</a> Flatback Turtle [59257]	Vulnerable	Breeding known to occur within area
<a href="#">Orcaella heinsohni</a> Australian Snubfin Dolphin [81322]		Species or species habitat known to occur within area
<a href="#">Orcinus orca</a> Killer Whale, Orca [46]		Species or species habitat may occur within area
<a href="#">Physeter macrocephalus</a> Sperm Whale [59]		Species or species habitat may occur within area
<a href="#">Pristis clavata</a> Dwarf Sawfish, Queensland Sawfish [68447]	Vulnerable	Breeding known to occur within area
<a href="#">Pristis pristis</a> Freshwater Sawfish, Largetooth Sawfish, River Sawfish, Leichhardt's Sawfish, Northern Sawfish [60756]	Vulnerable	Species or species habitat known to occur within area
<a href="#">Pristis zijsron</a> Green Sawfish, Dindagubba, Narrowsnout Sawfish [68442]	Vulnerable	Breeding known to occur within area
<a href="#">Rhincodon typus</a> Whale Shark [66680]	Vulnerable	Foraging, feeding or related behaviour known to occur within area
<a href="#">Sousa chinensis</a> Indo-Pacific Humpback Dolphin [50]		Breeding known to occur within area
<a href="#">Tursiops aduncus (Arafura/Timor Sea populations)</a> Spotted Bottlenose Dolphin (Arafura/Timor Sea populations) [78900]		Species or species habitat known to occur within area
<b>Migratory Terrestrial Species</b>		
<a href="#">Cecropis daurica</a> Red-rumped Swallow [80610]		Species or species habitat may occur within area
<a href="#">Cuculus optatus</a> Oriental Cuckoo, Horsfield's Cuckoo [86651]		Species or species habitat known to occur within area
<a href="#">Hirundo rustica</a> Barn Swallow [662]		Species or species habitat known to occur within area
<a href="#">Motacilla cinerea</a> Grey Wagtail [642]		Species or species

Name	Threatened	Type of Presence
<a href="#">Motacilla flava</a> Yellow Wagtail [644]		habitat known to occur within area  Species or species habitat known to occur within area
<a href="#">Rhipidura rufifrons</a> Rufous Fantail [592]		Species or species habitat known to occur within area
<b>Migratory Wetlands Species</b>		
<a href="#">Acrocephalus orientalis</a> Oriental Reed-Warbler [59570]		Species or species habitat known to occur within area
<a href="#">Actitis hypoleucos</a> Common Sandpiper [59309]		Species or species habitat known to occur within area
<a href="#">Arenaria interpres</a> Ruddy Turnstone [872]		Roosting known to occur within area
<a href="#">Calidris acuminata</a> Sharp-tailed Sandpiper [874]		Roosting known to occur within area
<a href="#">Calidris alba</a> Sanderling [875]		Roosting known to occur within area
<a href="#">Calidris canutus</a> Red Knot, Knot [855]	Endangered	Species or species habitat known to occur within area
<a href="#">Calidris ferruginea</a> Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area
<a href="#">Calidris melanotos</a> Pectoral Sandpiper [858]		Species or species habitat known to occur within area
<a href="#">Calidris ruficollis</a> Red-necked Stint [860]		Roosting known to occur within area
<a href="#">Calidris subminuta</a> Long-toed Stint [861]		Foraging, feeding or related behaviour known to occur within area
<a href="#">Calidris tenuirostris</a> Great Knot [862]	Critically Endangered	Roosting known to occur within area
<a href="#">Charadrius bicinctus</a> Double-banded Plover [895]		Foraging, feeding or related behaviour known to occur within area
<a href="#">Charadrius dubius</a> Little Ringed Plover [896]		Foraging, feeding or related behaviour known to occur within area
<a href="#">Charadrius leschenaultii</a> Greater Sand Plover, Large Sand Plover [877]	Vulnerable	Species or species habitat known to occur within area
<a href="#">Charadrius mongolus</a> Lesser Sand Plover, Mongolian Plover [879]	Endangered	Roosting known to occur within area
<a href="#">Charadrius veredus</a> Oriental Plover, Oriental Dotterel [882]		Roosting known to occur within area
<a href="#">Gallinago megala</a> Swinhoe's Snipe [864]		Foraging, feeding or related behaviour known to occur within area

Name	Threatened	Type of Presence
<a href="#">Gallinago stenura</a> Pin-tailed Snipe [841]		Roosting likely to occur within area
<a href="#">Glareola maldivarum</a> Oriental Pratincole [840]		Roosting known to occur within area
<a href="#">Limicola falcinellus</a> Broad-billed Sandpiper [842]		Roosting known to occur within area
<a href="#">Limnodromus semipalmatus</a> Asian Dowitcher [843]		Species or species habitat known to occur within area
<a href="#">Limosa lapponica</a> Bar-tailed Godwit [844]		Species or species habitat known to occur within area
<a href="#">Limosa limosa</a> Black-tailed Godwit [845]		Roosting known to occur within area
<a href="#">Numenius madagascariensis</a> Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat known to occur within area
<a href="#">Numenius minutus</a> Little Curlew, Little Whimbrel [848]		Roosting known to occur within area
<a href="#">Numenius phaeopus</a> Whimbrel [849]		Roosting known to occur within area
<a href="#">Pandion haliaetus</a> Osprey [952]		Breeding known to occur within area
<a href="#">Philomachus pugnax</a> Ruff (Reeve) [850]		Roosting known to occur within area
<a href="#">Pluvialis fulva</a> Pacific Golden Plover [25545]		Roosting known to occur within area
<a href="#">Pluvialis squatarola</a> Grey Plover [865]		Roosting known to occur within area
<a href="#">Thalasseus bergii</a> Greater Crested Tern [83000]		Breeding known to occur within area
<a href="#">Tringa brevipes</a> Grey-tailed Tattler [851]		Roosting known to occur within area
<a href="#">Tringa glareola</a> Wood Sandpiper [829]		Foraging, feeding or related behaviour known to occur within area
<a href="#">Tringa incana</a> Wandering Tattler [831]		Foraging, feeding or related behaviour known to occur within area
<a href="#">Tringa nebularia</a> Common Greenshank, Greenshank [832]		Species or species habitat known to occur within area
<a href="#">Tringa stagnatilis</a> Marsh Sandpiper, Little Greenshank [833]		Roosting known to occur within area
<a href="#">Tringa totanus</a> Common Redshank, Redshank [835]		Roosting known to occur within area
<a href="#">Xenus cinereus</a> Terek Sandpiper [59300]		Roosting known 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 -  
Commonwealth Land - Australian Government Solicitor  
Defence - QUAIL ISLAND BOMBING RANGE  
Defence - YAMPI SOUND TRAINING AREA

### Commonwealth Heritage Places

[\[ Resource Information \]](#)

Name	State	Status
<b>Natural</b>		
<a href="#">Ashmore Reef National Nature Reserve</a>	EXT	Listed place
<a href="#">Mermaid Reef - Rowley Shoals</a>	WA	Listed place
<a href="#">Scott Reef and Surrounds - Commonwealth Area</a>	EXT	Listed place
<a href="#">Yampi Defence Area</a>	WA	Listed place

### Listed Marine Species

[\[ Resource Information \]](#)

\* Species is listed under a different scientific name on the EPBC Act - Threatened Species list.

Name	Threatened	Type of Presence
<b>Birds</b>		
<a href="#">Acrocephalus orientalis</a> Oriental Reed-Warbler [59570]		Species or species habitat known to occur within area
<a href="#">Actitis hypoleucos</a> Common Sandpiper [59309]		Species or species habitat known to occur within area
<a href="#">Anous minutus</a> Black Noddy [824]		Breeding known to occur within area
<a href="#">Anous stolidus</a> Common Noddy [825]		Breeding known to occur within area
<a href="#">Anous tenuirostris melanops</a> Australian Lesser Noddy [26000]	Vulnerable	Breeding known to occur within area
<a href="#">Anseranas semipalmata</a> Magpie Goose [978]		Species or species habitat may occur within area
<a href="#">Apus pacificus</a> Fork-tailed Swift [678]		Species or species habitat likely to occur within area
<a href="#">Ardea ibis</a> Cattle Egret [59542]		Species or species habitat may occur within area
<a href="#">Arenaria interpres</a> Ruddy Turnstone [872]		Roosting known to occur within area
<a href="#">Calidris acuminata</a> Sharp-tailed Sandpiper [874]		Roosting known to occur within area
<a href="#">Calidris alba</a> Sanderling [875]		Roosting known to occur within area
<a href="#">Calidris canutus</a> Red Knot, Knot [855]	Endangered	Species or species habitat known to occur within area
<a href="#">Calidris ferruginea</a> Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area

Name	Threatened	Type of Presence
<a href="#">Calidris melanotos</a> Pectoral Sandpiper [858]		Species or species habitat known to occur within area
<a href="#">Calidris ruficollis</a> Red-necked Stint [860]		Roosting known to occur within area
<a href="#">Calidris subminuta</a> Long-toed Stint [861]		Foraging, feeding or related behaviour known to occur within area
<a href="#">Calidris tenuirostris</a> Great Knot [862]	Critically Endangered	Roosting known to occur within area
<a href="#">Calonectris leucomelas</a> Streaked Shearwater [1077]		Species or species habitat known to occur within area
<a href="#">Charadrius bicinctus</a> Double-banded Plover [895]		Foraging, feeding or related behaviour known to occur within area
<a href="#">Charadrius dubius</a> Little Ringed Plover [896]		Foraging, feeding or related behaviour known to occur within area
<a href="#">Charadrius leschenaultii</a> Greater Sand Plover, Large Sand Plover [877]	Vulnerable	Species or species habitat known to occur within area
<a href="#">Charadrius mongolus</a> Lesser Sand Plover, Mongolian Plover [879]	Endangered	Roosting known to occur within area
<a href="#">Charadrius ruficapillus</a> Red-capped Plover [881]		Roosting known to occur within area
<a href="#">Charadrius veredus</a> Oriental Plover, Oriental Dotterel [882]		Roosting known to occur within area
<a href="#">Chrysococcyx osculans</a> Black-eared Cuckoo [705]		Species or species habitat known to occur within area
<a href="#">Fregata ariel</a> Lesser Frigatebird, Least Frigatebird [1012]		Breeding known to occur within area
<a href="#">Fregata minor</a> Great Frigatebird, Greater Frigatebird [1013]		Breeding known to occur within area
<a href="#">Gallinago megala</a> Swinhoe's Snipe [864]		Foraging, feeding or related behaviour known to occur within area
<a href="#">Gallinago stenura</a> Pin-tailed Snipe [841]		Roosting likely to occur within area
<a href="#">Glareola maldivarum</a> Oriental Pratincole [840]		Roosting known to occur within area
<a href="#">Haliaeetus leucogaster</a> White-bellied Sea-Eagle [943]		Species or species habitat known to occur within area
<a href="#">Heteroscelus brevipes</a> Grey-tailed Tattler [59311]		Roosting known to occur within area
<a href="#">Heteroscelus incanus</a> Wandering Tattler [59547]		Foraging, feeding or related behaviour known to occur within area
<a href="#">Himantopus himantopus</a> Pied Stilt, Black-winged Stilt [870]		Roosting known to occur within area



Name	Threatened	Type of Presence
<a href="#">Hirundo daurica</a> Red-rumped Swallow [59480]		Species or species habitat may occur within area
<a href="#">Hirundo rustica</a> Barn Swallow [662]		Species or species habitat known to occur within area
<a href="#">Larus novaehollandiae</a> Silver Gull [810]		Breeding known to occur within area
<a href="#">Limicola falcinellus</a> Broad-billed Sandpiper [842]		Roosting known to occur within area
<a href="#">Limnodromus semipalmatus</a> Asian Dowitcher [843]		Species or species habitat known to occur within area
<a href="#">Limosa lapponica</a> Bar-tailed Godwit [844]		Species or species habitat known to occur within area
<a href="#">Limosa limosa</a> Black-tailed Godwit [845]		Roosting known to occur within area
<a href="#">Macronectes giganteus</a> Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area
<a href="#">Merops ornatus</a> Rainbow Bee-eater [670]		Species or species habitat may occur within area
<a href="#">Motacilla cinerea</a> Grey Wagtail [642]		Species or species habitat known to occur within area
<a href="#">Motacilla flava</a> Yellow Wagtail [644]		Species or species habitat known to occur within area
<a href="#">Numenius madagascariensis</a> Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat known to occur within area
<a href="#">Numenius minutus</a> Little Curlew, Little Whimbrel [848]		Roosting known to occur within area
<a href="#">Numenius phaeopus</a> Whimbrel [849]		Roosting known to occur within area
<a href="#">Pandion haliaetus</a> Osprey [952]		Breeding known to occur within area
<a href="#">Papasula abbotti</a> Abbott's Booby [59297]	Endangered	Species or species habitat may occur within area
<a href="#">Phaethon lepturus</a> White-tailed Tropicbird [1014]		Breeding known to occur within area
<a href="#">Phaethon lepturus fulvus</a> Christmas Island White-tailed Tropicbird, Golden Bosunbird [26021]	Endangered	Species or species habitat may occur within area
<a href="#">Phaethon rubricauda</a> Red-tailed Tropicbird [994]		Breeding known to occur within area
<a href="#">Philomachus pugnax</a> Ruff (Reeve) [850]		Roosting known to occur within area

Name	Threatened	Type of Presence
<a href="#">Pluvialis fulva</a> Pacific Golden Plover [25545]		Roosting known to occur within area
<a href="#">Pluvialis squatarola</a> Grey Plover [865]		Roosting known to occur within area
<a href="#">Puffinus pacificus</a> Wedge-tailed Shearwater [1027]		Breeding known to occur within area
<a href="#">Recurvirostra novaehollandiae</a> Red-necked Avocet [871]		Roosting known to occur within area
<a href="#">Rhipidura rufifrons</a> Rufous Fantail [592]		Species or species habitat known to occur within area
<a href="#">Rostratula benghalensis (sensu lato)</a> Painted Snipe [889]	Endangered*	Species or species habitat known to occur within area
<a href="#">Sterna albifrons</a> Little Tern [813]		Breeding known to occur within area
<a href="#">Sterna anaethetus</a> Bridled Tern [814]		Breeding known to occur within area
<a href="#">Sterna bengalensis</a> Lesser Crested Tern [815]		Breeding known to occur within area
<a href="#">Sterna bergii</a> Crested Tern [816]		Breeding known to occur within area
<a href="#">Sterna caspia</a> Caspian Tern [59467]		Breeding known to occur within area
<a href="#">Sterna dougallii</a> Roseate Tern [817]		Breeding known to occur within area
<a href="#">Sterna fuscata</a> Sooty Tern [794]		Breeding known to occur within area
<a href="#">Sterna nereis</a> Fairy Tern [796]		Breeding known to occur within area
<a href="#">Stiltia isabella</a> Australian Pratincole [818]		Roosting known to occur within area
<a href="#">Sula dactylatra</a> Masked Booby [1021]		Breeding known to occur within area
<a href="#">Sula leucogaster</a> Brown Booby [1022]		Breeding known to occur within area
<a href="#">Sula sula</a> Red-footed Booby [1023]		Breeding known to occur within area
<a href="#">Tringa glareola</a> Wood Sandpiper [829]		Foraging, feeding or related behaviour known to occur within area
<a href="#">Tringa nebularia</a> Common Greenshank, Greenshank [832]		Species or species habitat known to occur within area
<a href="#">Tringa stagnatilis</a> Marsh Sandpiper, Little Greenshank [833]		Roosting known to occur within area
<a href="#">Tringa totanus</a> Common Redshank, Redshank [835]		Roosting known to occur within area
<a href="#">Xenus cinereus</a> Terek Sandpiper [59300]		Roosting known to occur

Name	Threatened	Type of Presence within area
<b>Fish</b>		
<a href="#">Acentronura larsonae</a> Helen's Pygmy Pipehorse [66186]		Species or species habitat may occur within area
<a href="#">Bhanotia fasciolata</a> Corrugated Pipefish, Barbed Pipefish [66188]		Species or species habitat may occur within area
<a href="#">Bulbonaricus brauni</a> Braun's Pughead Pipefish, Pug-headed Pipefish [66189]		Species or species habitat may occur within area
<a href="#">Campichthys tricarinatus</a> Three-keel Pipefish [66192]		Species or species habitat may occur within area
<a href="#">Choeroichthys brachysoma</a> Pacific Short-bodied Pipefish, Short-bodied Pipefish [66194]		Species or species habitat may occur within area
<a href="#">Choeroichthys latispinosus</a> Muiron Island Pipefish [66196]		Species or species habitat may occur within area
<a href="#">Choeroichthys suillus</a> Pig-snouted Pipefish [66198]		Species or species habitat may occur within area
<a href="#">Corythoichthys amplexus</a> Fijian Banded Pipefish, Brown-banded Pipefish [66199]		Species or species habitat may occur within area
<a href="#">Corythoichthys flavofasciatus</a> Reticulate Pipefish, Yellow-banded Pipefish, Network Pipefish [66200]		Species or species habitat may occur within area
<a href="#">Corythoichthys haematopterus</a> Reef-top Pipefish [66201]		Species or species habitat may occur within area
<a href="#">Corythoichthys intestinalis</a> Australian Messmate Pipefish, Banded Pipefish [66202]		Species or species habitat may occur within area
<a href="#">Corythoichthys schultzi</a> Schultz's Pipefish [66205]		Species or species habitat may occur within area
<a href="#">Cosmocampus banneri</a> Roughridge Pipefish [66206]		Species or species habitat may occur within area
<a href="#">Doryrhamphus dactyliophorus</a> Banded Pipefish, Ringed Pipefish [66210]		Species or species habitat may occur within area
<a href="#">Doryrhamphus excisus</a> Bluestripe Pipefish, Indian Blue-stripe Pipefish, Pacific Blue-stripe Pipefish [66211]		Species or species habitat may occur within area
<a href="#">Doryrhamphus janssi</a> Cleaner Pipefish, Janss' Pipefish [66212]		Species or species habitat may occur within area
<a href="#">Doryrhamphus multiannulatus</a> Many-banded Pipefish [66717]		Species or species habitat may occur within area
<a href="#">Doryrhamphus negrosensis</a> Flagtail Pipefish, Masthead Island Pipefish [66213]		Species or species habitat may occur within

Name	Threatened	Type of Presence area
<a href="#">Festucalex cinctus</a> Girdled Pipefish [66214]		Species or species habitat may occur within area
<a href="#">Festucalex scalaris</a> Ladder Pipefish [66216]		Species or species habitat may occur within area
<a href="#">Filicampus tigris</a> Tiger Pipefish [66217]		Species or species habitat may occur within area
<a href="#">Halicampus brocki</a> Brock's Pipefish [66219]		Species or species habitat may occur within area
<a href="#">Halicampus dunckeri</a> Red-hair Pipefish, Duncker's Pipefish [66220]		Species or species habitat may occur within area
<a href="#">Halicampus grayi</a> Mud Pipefish, Gray's Pipefish [66221]		Species or species habitat may occur within area
<a href="#">Halicampus nitidus</a> Glittering Pipefish [66224]		Species or species habitat may occur within area
<a href="#">Halicampus spinirostris</a> Spiny-snout Pipefish [66225]		Species or species habitat may occur within area
<a href="#">Haliichthys taeniophorus</a> Ribboned Pipehorse, Ribboned Seadragon [66226]		Species or species habitat may occur within area
<a href="#">Hippichthys cyanospilos</a> Blue-speckled Pipefish, Blue-spotted Pipefish [66228]		Species or species habitat may occur within area
<a href="#">Hippichthys parvicarinatus</a> Short-keel Pipefish, Short-keeled Pipefish [66230]		Species or species habitat may occur within area
<a href="#">Hippichthys penicillus</a> Beady Pipefish, Steep-nosed Pipefish [66231]		Species or species habitat may occur within area
<a href="#">Hippocampus angustus</a> Western Spiny Seahorse, Narrow-bellied Seahorse [66234]		Species or species habitat may occur within area
<a href="#">Hippocampus histrix</a> Spiny Seahorse, Thorny Seahorse [66236]		Species or species habitat may occur within area
<a href="#">Hippocampus kuda</a> Spotted Seahorse, Yellow Seahorse [66237]		Species or species habitat may occur within area
<a href="#">Hippocampus planifrons</a> Flat-face Seahorse [66238]		Species or species habitat may occur within area
<a href="#">Hippocampus spinosissimus</a> Hedgehog Seahorse [66239]		Species or species habitat may occur within area
<a href="#">Hippocampus trimaculatus</a> Three-spot Seahorse, Low-crowned Seahorse, Flat-faced Seahorse [66720]		Species or species habitat may occur within area

Name	Threatened	Type of Presence
<a href="#">Micrognathus micronotopterus</a> Tidepool Pipefish [66255]		Species or species habitat may occur within area
<a href="#">Phoxocampus belcheri</a> Black Rock Pipefish [66719]		Species or species habitat may occur within area
<a href="#">Solegnathus hardwickii</a> Pallid Pipehorse, Hardwick's Pipehorse [66272]		Species or species habitat may occur within area
<a href="#">Solegnathus lettiensis</a> Gunther's Pipehorse, Indonesian Pipefish [66273]		Species or species habitat may occur within area
<a href="#">Solenostomus cyanopterus</a> Robust Ghostpipefish, Blue-finned Ghost Pipefish, [66183]		Species or species habitat may occur within area
<a href="#">Syngnathoides biaculeatus</a> Double-end Pipehorse, Double-ended Pipehorse, Alligator Pipefish [66279]		Species or species habitat may occur within area
<a href="#">Trachyrhamphus bicoarctatus</a> Bentstick Pipefish, Bend Stick Pipefish, Short-tailed Pipefish [66280]		Species or species habitat may occur within area
<a href="#">Trachyrhamphus longirostris</a> Straightstick Pipefish, Long-nosed Pipefish, Straight Stick Pipefish [66281]		Species or species habitat may occur within area
<b>Mammals</b>		
<a href="#">Dugong dugon</a> Dugong [28]		Breeding known to occur within area
<b>Reptiles</b>		
<a href="#">Acalyptophis peronii</a> Horned Seasnake [1114]		Species or species habitat may occur within area
<a href="#">Aipysurus apraefrontalis</a> Short-nosed Seasnake [1115]	Critically Endangered	Species or species habitat known to occur within area
<a href="#">Aipysurus duboisii</a> Dubois' Seasnake [1116]		Species or species habitat may occur within area
<a href="#">Aipysurus eydouxii</a> Spine-tailed Seasnake [1117]		Species or species habitat may occur within area
<a href="#">Aipysurus foliosquama</a> Leaf-scaled Seasnake [1118]	Critically Endangered	Species or species habitat known to occur within area
<a href="#">Aipysurus fuscus</a> Dusky Seasnake [1119]		Species or species habitat known to occur within area
<a href="#">Aipysurus laevis</a> Olive Seasnake [1120]		Species or species habitat may occur within area
<a href="#">Aipysurus tenuis</a> Brown-lined Seasnake [1121]		Species or species habitat may occur within area
<a href="#">Astrotia stokesii</a> Stokes' Seasnake [1122]		Species or species habitat may occur within area

Name	Threatened	Type of Presence
<a href="#">Caretta caretta</a> Loggerhead Turtle [1763]	Endangered	Foraging, feeding or related behaviour known to occur within area
<a href="#">Chelonia mydas</a> Green Turtle [1765]	Vulnerable	Breeding known to occur within area
<a href="#">Crocodylus johnstoni</a> Freshwater Crocodile, Johnston's Crocodile, Johnstone's Crocodile [1773]		Species or species habitat may occur within area
<a href="#">Crocodylus porosus</a> Salt-water Crocodile, Estuarine Crocodile [1774]		Species or species habitat likely to occur within area
<a href="#">Dermochelys coriacea</a> Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Breeding likely to occur within area
<a href="#">Disteira kingii</a> Spectacled Seasnake [1123]		Species or species habitat may occur within area
<a href="#">Disteira major</a> Olive-headed Seasnake [1124]		Species or species habitat may occur within area
<a href="#">Emydocephalus annulatus</a> Turtle-headed Seasnake [1125]		Species or species habitat may occur within area
<a href="#">Enhydrina schistosa</a> Beaked Seasnake [1126]		Species or species habitat may occur within area
<a href="#">Ephalophis greyi</a> North-western Mangrove Seasnake [1127]		Species or species habitat may occur within area
<a href="#">Eretmochelys imbricata</a> Hawksbill Turtle [1766]	Vulnerable	Breeding known to occur within area
<a href="#">Hydrelaps darwiniensis</a> Black-ringed Seasnake [1100]		Species or species habitat may occur within area
<a href="#">Hydrophis atriceps</a> Black-headed Seasnake [1101]		Species or species habitat may occur within area
<a href="#">Hydrophis coggeri</a> Slender-necked Seasnake [25925]		Species or species habitat may occur within area
<a href="#">Hydrophis czeb lukovi</a> Fine-spined Seasnake [59233]		Species or species habitat may occur within area
<a href="#">Hydrophis elegans</a> Elegant Seasnake [1104]		Species or species habitat may occur within area
<a href="#">Hydrophis inornatus</a> Plain Seasnake [1107]		Species or species habitat may occur within area
<a href="#">Hydrophis mcdowellii</a> null [25926]		Species or species habitat may occur within area
<a href="#">Hydrophis ornatus</a> Spotted Seasnake, Ornate Reef Seasnake [1111]		Species or species habitat may occur within area

Name	Threatened	Type of Presence
<a href="#">Hydrophis pacificus</a> Large-headed Seasnake, Pacific Seasnake [1112]		Species or species habitat may occur within area
<a href="#">Lapemis hardwickii</a> Spine-bellied Seasnake [1113]		Species or species habitat may occur within area
<a href="#">Lepidochelys olivacea</a> Olive Ridley Turtle, Pacific Ridley Turtle [1767]	Endangered	Breeding known to occur within area
<a href="#">Natator depressus</a> Flatback Turtle [59257]	Vulnerable	Breeding known to occur within area
<a href="#">Parahydrophis mertoni</a> Northern Mangrove Seasnake [1090]		Species or species habitat may occur within area
<a href="#">Pelamis platurus</a> Yellow-bellied Seasnake [1091]		Species or species habitat may occur within area

## Whales and other Cetaceans [ [Resource Information](#) ]

Name	Status	Type of Presence
<b>Mammals</b>		
<a href="#">Balaenoptera acutorostrata</a> Minke Whale [33]		Species or species habitat may occur within area
<a href="#">Balaenoptera borealis</a> Sei Whale [34]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
<a href="#">Balaenoptera edeni</a> Bryde's Whale [35]		Species or species habitat likely to occur within area
<a href="#">Balaenoptera musculus</a> Blue Whale [36]	Endangered	Migration route known to occur within area
<a href="#">Balaenoptera physalus</a> Fin Whale [37]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
<a href="#">Delphinus delphis</a> Common Dolphin, Short-beaked Common Dolphin [60]		Species or species habitat may occur within area
<a href="#">Feresa attenuata</a> Pygmy Killer Whale [61]		Species or species habitat may occur within area
<a href="#">Globicephala macrorhynchus</a> Short-finned Pilot Whale [62]		Species or species habitat may occur within area
<a href="#">Grampus griseus</a> Risso's Dolphin, Grampus [64]		Species or species habitat may occur within area
<a href="#">Indopacetus pacificus</a> Longman's Beaked Whale [72]		Species or species habitat may occur within area
<a href="#">Kogia breviceps</a> Pygmy Sperm Whale [57]		Species or species habitat may occur within area
<a href="#">Kogia simus</a> Dwarf Sperm Whale [58]		Species or species habitat may occur within area

Name	Status	Type of Presence
<a href="#">Lagenodelphis hosei</a> Fraser's Dolphin, Sarawak Dolphin [41]		Species or species habitat may occur within area
<a href="#">Megaptera novaeangliae</a> Humpback Whale [38]		Breeding known to occur within area
<a href="#">Mesoplodon densirostris</a> Blainville's Beaked Whale, Dense-beaked Whale [74]		Species or species habitat may occur within area
<a href="#">Mesoplodon ginkgodens</a> Ginkgo-toothed Beaked Whale, Ginkgo-toothed Whale, Ginkgo Beaked Whale [59564]		Species or species habitat may occur within area
<a href="#">Orcaella brevirostris</a> Irrawaddy Dolphin [45]		Species or species habitat known to occur within area
<a href="#">Orcinus orca</a> Killer Whale, Orca [46]		Species or species habitat may occur within area
<a href="#">Peponocephala electra</a> Melon-headed Whale [47]		Species or species habitat may occur within area
<a href="#">Physeter macrocephalus</a> Sperm Whale [59]		Species or species habitat may occur within area
<a href="#">Pseudorca crassidens</a> False Killer Whale [48]		Species or species habitat likely to occur within area
<a href="#">Sousa chinensis</a> Indo-Pacific Humpback Dolphin [50]		Breeding known to occur within area
<a href="#">Stenella attenuata</a> Spotted Dolphin, Pantropical Spotted Dolphin [51]		Species or species habitat may occur within area
<a href="#">Stenella coeruleoalba</a> Striped Dolphin, Euphrosyne Dolphin [52]		Species or species habitat may occur within area
<a href="#">Stenella longirostris</a> Long-snouted Spinner Dolphin [29]		Species or species habitat may occur within area
<a href="#">Steno bredanensis</a> Rough-toothed Dolphin [30]		Species or species habitat may occur within area
<a href="#">Tursiops aduncus</a> Indian Ocean Bottlenose Dolphin, Spotted Bottlenose Dolphin [68418]		Species or species habitat likely to occur within area
<a href="#">Tursiops aduncus (Arafura/Timor Sea populations)</a> Spotted Bottlenose Dolphin (Arafura/Timor Sea populations) [78900]		Species or species habitat known to occur within area
<a href="#">Tursiops truncatus s. str.</a> Bottlenose Dolphin [68417]		Species or species habitat may occur within area
<a href="#">Ziphius cavirostris</a> Cuvier's Beaked Whale, Goose-beaked Whale [56]		Species or species habitat may occur within area



**Australian Marine Parks**[\[ Resource Information \]](#)

Name	Label
Argo-Rowley Terrace	Multiple Use Zone (IUCN VI)
Argo-Rowley Terrace	National Park Zone (IUCN II)
Argo-Rowley Terrace	Special Purpose Zone (Trawl) (IUCN VI)
Ashmore Reef	Recreational Use Zone (IUCN IV)
Ashmore Reef	Sanctuary Zone (IUCN Ia)
Cartier Island	Sanctuary Zone (IUCN Ia)
Eighty Mile Beach	Multiple Use Zone (IUCN VI)
Joseph Bonaparte Gulf	Special Purpose Zone (IUCN VI)
Kimberley	Habitat Protection Zone (IUCN IV)
Kimberley	Multiple Use Zone (IUCN VI)
Kimberley	National Park Zone (IUCN II)
Mermaid Reef	National Park Zone (IUCN II)
Montebello	Multiple Use Zone (IUCN VI)
Oceanic Shoals	Habitat Protection Zone (IUCN IV)
Oceanic Shoals	Multiple Use Zone (IUCN VI)
Oceanic Shoals	National Park Zone (IUCN II)
Oceanic Shoals	Special Purpose Zone (Trawl) (IUCN VI)
Roebuck	Multiple Use Zone (IUCN VI)

**Extra Information****State and Territory Reserves**[\[ Resource Information \]](#)

Name	State
Adele Island	WA
Balangarra	WA
Bardi Jawi	WA
Bedout Island	WA
Browse Island	WA
Coulomb Point	WA
Dambimangari	WA
Jinmarnkur	WA
Jinmarnkur Kulja	WA
Karajarri	WA
Lacepede Islands	WA
Lawley River	WA
Lesueur Island	WA
Low Rocks	WA
Mitchell River	WA
Niiwalarra Islands	WA
Prince Regent	WA
Swan Island	WA
Tanner Island	WA
Unnamed WA28968	WA
Unnamed WA37168	WA
Unnamed WA41775	WA
Unnamed WA44669	WA
Unnamed WA44672	WA
Unnamed WA44673	WA
Unnamed WA44677	WA
Unnamed WA51162	WA
Unnamed WA51932	WA
Unnamed WA52354	WA
Unnamed WA53015	WA
Unguu	WA
Yampi	WA
Yawuru	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 Resources Audit, 2001.

Name	Status	Type of Presence
<b>Birds</b>		
Columba livia Rock Pigeon, Rock Dove, Domestic Pigeon [803]		Species or species habitat likely to occur within area
Sturnus vulgaris Common Starling [389]		Species or species habitat likely to occur within area
<b>Frogs</b>		
Rhinella marina Cane Toad [83218]		Species or species habitat known to occur within area
<b>Mammals</b>		
Bos taurus Domestic Cattle [16]		Species or species habitat likely to occur within area
Bubalus bubalis Water Buffalo, Swamp Buffalo [1]		Species or species habitat likely to occur within area
Camelus dromedarius Dromedary, Camel [7]		Species or species habitat likely to occur within area
Canis lupus familiaris Domestic Dog [82654]		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
Rattus exulans Pacific Rat, Polynesian Rat [79]		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
<b>Plants</b>		
Andropogon gayanus Gamba Grass [66895]		Species or species habitat likely to occur within area
Brachiaria mutica Para Grass [5879]		Species or species habitat likely to occur within area

Name	Status	Type of Presence
Cabomba caroliniana Cabomba, Fanwort, Carolina Watershield, Fish Grass, Washington Grass, Watershield, Carolina Fanwort, Common Cabomba [5171]		Species or species habitat likely to occur within area
Cenchrus ciliaris Buffel-grass, Black Buffel-grass [20213]		Species or species habitat likely to occur within area
Dolichandra unguis-cati Cat's Claw Vine, Yellow Trumpet Vine, Cat's Claw Creeper, Funnel Creeper [85119]		Species or species habitat likely to occur within area
Hymenachne amplexicaulis Hymenachne, Olive Hymenachne, Water Stargrass, West Indian Grass, West Indian Marsh Grass [31754]		Species or species habitat likely to occur within area
Jatropha gossypifolia Cotton-leaved Physic-Nut, Bellyache Bush, Cotton-leaf Physic Nut, Cotton-leaf Jatropha, Black Physic Nut [7507]		Species or species habitat likely to occur within area
Lantana camara Lantana, Common Lantana, Kamara Lantana, Large-leaf Lantana, Pink Flowered Lantana, Red Flowered Lantana, Red-Flowered Sage, White Sage, Wild Sage [10892]		Species or species habitat likely to occur within area
Mimosa pigra Mimosa, Giant Mimosa, Giant Sensitive Plant, Thorny Sensitive Plant, Black Mimosa, Catclaw Mimosa, Bashful Plant [11223]		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
Pennisetum polystachyon Mission Grass, Perennial Mission Grass, Missiongrass, Feathery Pennisetum, Feather Pennisetum, Thin Napier Grass, West Indian Pennisetum, Blue Buffel Grass [21194]		Species or species habitat likely to occur within area
Prosopis spp. Mesquite, Algaroba [68407]		Species or species habitat likely to occur within area
Salvinia molesta Salvinia, Giant Salvinia, Aquarium Watermoss, Kariba Weed [13665]		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
Ramphotyphlops braminus Flowerpot Blind Snake, Brahminy Blind Snake, Cacing Besi [1258]		Species or species habitat known to occur within area

## Nationally Important Wetlands

[ [Resource Information](#) ]

Name	State
<a href="#">Ashmore Reef</a>	EXT
<a href="#">Bunda-Bunda Mound Springs</a>	WA
<a href="#">Finniss Floodplain and Fog Bay Systems</a>	NT
<a href="#">Mermaid Reef</a>	EXT
<a href="#">Mitchell River System</a>	WA
<a href="#">Prince Regent River System</a>	WA
<a href="#">Willie Creek Wetlands</a>	WA
<a href="#">Yampi Sound Training Area</a>	WA

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
<a href="#">Carbonate bank and terrace system of the Van</a>	North
<a href="#">Pinnacles of the Bonaparte Basin</a>	North
<a href="#">Shelf break and slope of the Arafura Shelf</a>	North
<a href="#">Ancient coastline at 125 m depth contour</a>	North-west
<a href="#">Ashmore Reef and Cartier Island and surrounding</a>	North-west
<a href="#">Canyons linking the Argo Abyssal Plain with the</a>	North-west
<a href="#">Carbonate bank and terrace system of the Sahul</a>	North-west
<a href="#">Continental Slope Demersal Fish Communities</a>	North-west
<a href="#">Glomar Shoals</a>	North-west
<a href="#">Mermaid Reef and Commonwealth waters</a>	North-west
<a href="#">Pinnacles of the Bonaparte Basin</a>	North-west
<a href="#">Seringapatam Reef and Commonwealth waters in</a>	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 qualifications 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

-11.99 113.941,-10.514 114.451,-10.004 115.203,-9.215 116.539,-8.807 117.513,-8.606 119.408,-8.703 120.79,-8.626 122.266,-8.719 122.956,-9.878 124.049,-9.92 124.483,-9.266 125.551,-9.098 126.298,-8.752 127.045,-8.463 127.37,-8.04 127.41,-7.896 127.981,-7.936 128.668,-8.129 128.957,-8.675 129.018,-9.414 128.972,-10.161 129.209,-10.484 129.566,-10.992 130.397,-11.323 130.887,-11.868 131.215,-12.0855 131.116,-12.471 130.483,-12.627 130.417,-12.658 130.372,-12.661 130.337,-12.909 130.145,-12.947 130.137,-13.045 130.13,-13.166 130.101,-13.423 129.83,-13.686 129.68,-13.864 129.17,-13.864 128.778,-13.629 127.98,-14.211 126.851,-14.349 126.406,-14.508 126.018,-14.876 125.6,-15.235 125.171,-15.588 124.897,-15.896 124.616,-16.177 124.293,-16.432 123.867,-16.873 123.45,-16.497 122.822,-16.834 122.403,-18.232 122.151,-19.388 121.337,-19.807 119.387,-19.682 117.525,-19.682 116.879,-19.747 116.574,-20.087 115.4,-20.156 114.776,-19.646 114.507,-15.6 114.72,-13.823 114.566,-11.99 113.941

# 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.

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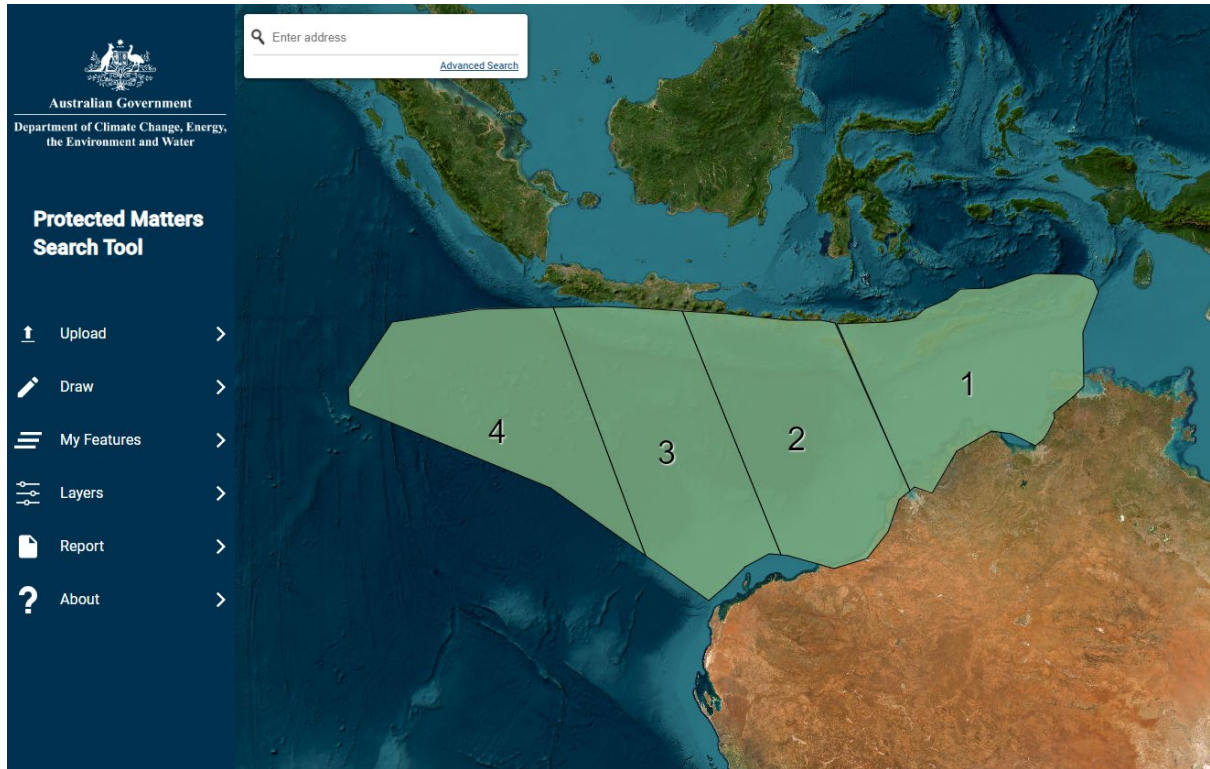
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Due to size limitations of the DCCEEW protected matters search tool, the PEZ polygon was subdivided into 4 smaller separate polygons. The four individual reports for the PEZ are presented in this Appendix.





Australian Government

Department of Climate Change, Energy,  
the Environment and Water

# 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.

POLYGON 1

[Summary](#)

[Details](#)

[Matters of NES](#)

[Other Matters Protected by the EPBC Act](#)

[Extra Information](#)

[Caveat](#)

[Acknowledgements](#)

Report created: 24-Jul-2023



# 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 [Administrative Guidelines on Significance](#).

<a href="#">World Heritage Properties:</a>	None
<a href="#">National Heritage Places:</a>	1
<a href="#">Wetlands of International Importance (Ramsar)</a>	1
<a href="#">Great Barrier Reef Marine Park:</a>	None
<a href="#">Commonwealth Marine Area:</a>	4
<a href="#">Listed Threatened Ecological Communities:</a>	1
<a href="#">Listed Threatened Species:</a>	71
<a href="#">Listed Migratory Species:</a>	85

## 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 [permit](#) 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.

<a href="#">Commonwealth Lands:</a>	79
<a href="#">Commonwealth Heritage Places:</a>	10
<a href="#">Listed Marine Species:</a>	138
<a href="#">Whales and Other Cetaceans:</a>	27
<a href="#">Critical Habitats:</a>	None
<a href="#">Commonwealth Reserves Terrestrial:</a>	None
<a href="#">Australian Marine Parks:</a>	14
<a href="#">Habitat Critical to the Survival of Marine Turtles:</a>	4

## Extra Information

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

<a href="#">State and Territory Reserves:</a>	30
<a href="#">Regional Forest Agreements:</a>	None
<a href="#">Nationally Important Wetlands:</a>	10
<a href="#">EPBC Act Referrals:</a>	224
<a href="#">Key Ecological Features (Marine):</a>	9
<a href="#">Biologically Important Areas:</a>	65
<a href="#">Bioregional Assessments:</a>	None
<a href="#">Geological and Bioregional Assessments:</a>	None

# Details

## Matters of National Environmental Significance

### National Heritage Places [\[ Resource Information \]](#)

Name	State	Legal Status	Buffer Status
Natural			
<a href="#">The West Kimberley</a>	WA	Listed place	In feature area

### Wetlands of International Importance (Ramsar Wetlands) [\[ Resource Information \]](#)

Ramsar Site Name	Proximity	Buffer Status
<a href="#">Ashmore reef national nature reserve</a>	Within Ramsar site	In feature area

### 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	Buffer Status
EEZ and Territorial Sea	In feature area
Extended Continental Shelf	In feature area
Extended Continental Shelf	In feature area
Extended Continental Shelf	In feature area

### 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.

Status of Vulnerable, Disallowed and Ineligible are not MNES under the EPBC Act.

Community Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Monsoon vine thickets on the coastal sand dunes of Dampier Peninsula</a>	Endangered	Community may occur within area	In buffer area only

### 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	Buffer Status
BIRD			
<a href="#">Anous tenuirostris melanops</a>	Vulnerable	Breeding known to occur within area	In feature area
Australian Lesser Noddy [26000]			

Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Calidris canutus</a> Red Knot, Knot [855]	Endangered	Species or species habitat known to occur within area	In feature area
<a href="#">Calidris ferruginea</a> Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area	In feature area
<a href="#">Calidris tenuirostris</a> Great Knot [862]	Critically Endangered	Roosting known to occur within area	In feature area
<a href="#">Charadrius leschenaultii</a> Greater Sand Plover, Large Sand Plover [877]	Vulnerable	Species or species habitat known to occur within area	In feature area
<a href="#">Charadrius mongolus</a> Lesser Sand Plover, Mongolian Plover [879]	Endangered	Roosting known to occur within area	In feature area
<a href="#">Epthianura crocea tunneyi</a> Alligator Rivers Yellow Chat, Yellow Chat (Alligator Rivers) [67089]	Endangered	Species or species habitat may occur within area	In feature area
<a href="#">Erythrotriorchis radiatus</a> Red Goshawk [942]	Endangered	Species or species habitat known to occur within area	In feature area
<a href="#">Erythrura gouldiae</a> Gouldian Finch [413]	Endangered	Species or species habitat known to occur within area	In feature area
<a href="#">Falco hypoleucos</a> Grey Falcon [929]	Vulnerable	Species or species habitat known to occur within area	In feature area
<a href="#">Falcunculus frontatus whitei</a> Crested Shrike-tit (northern), Northern Shrike-tit [26013]	Vulnerable	Species or species habitat known to occur within area	In feature area
<a href="#">Geophaps smithii blaauwi</a> Partridge Pigeon (western) [66501]	Vulnerable	Species or species habitat likely to occur within area	In feature area
<a href="#">Geophaps smithii smithii</a> Partridge Pigeon (eastern) [64441]	Vulnerable	Species or species habitat known to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Limosa lapponica baueri</a> Nunivak Bar-tailed Godwit, Western Alaskan Bar-tailed Godwit [86380]	Vulnerable	Species or species habitat known to occur within area	In feature area
<a href="#">Limosa lapponica menzbieri</a> Northern Siberian Bar-tailed Godwit, Russkoye Bar-tailed Godwit [86432]	Critically Endangered	Species or species habitat known to occur within area	In feature area
<a href="#">Malurus coronatus coronatus</a> Purple-crowned Fairy-wren (western) [64442]	Endangered	Species or species habitat may occur within area	In feature area
<a href="#">Melanodryas cucullata melvillensis</a> Tiwi Islands Hooded Robin, Hooded Robin (Tiwi Islands) [67092]	Critically Endangered	Species or species habitat known to occur within area	In feature area
<a href="#">Mirafrja javanica melvillensis</a> Horsfield's Bushlark (Tiwi Islands) [81011]	Vulnerable	Species or species habitat known to occur within area	In feature area
<a href="#">Numenius madagascariensis</a> Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat known to occur within area	In feature area
<a href="#">Papasula abbotti</a> Abbott's Booby [59297]	Endangered	Species or species habitat may occur within area	In feature area
<a href="#">Pezoporus occidentalis</a> Night Parrot [59350]	Endangered	Species or species habitat may occur within area	In feature area
<a href="#">Rostratula australis</a> Australian Painted Snipe [77037]	Endangered	Species or species habitat likely to occur within area	In feature area
<a href="#">Tyto novaehollandiae kimberli</a> Masked Owl (northern) [26048]	Vulnerable	Species or species habitat likely to occur within area	In feature area
<a href="#">Tyto novaehollandiae melvillensis</a> Tiwi Masked Owl, Tiwi Islands Masked Owl [26049]	Endangered	Species or species habitat known to occur within area	In feature area

## FISH

Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Thunnus maccoyii</a> Southern Bluefin Tuna [69402]	Conservation Dependent	Breeding known to occur within area	In feature area
<b>FROG</b>			
<a href="#">Uperoleia daviesae</a> Howard River Toadlet, Davies's Toadlet [85375]	Vulnerable	Species or species habitat known to occur within area	In feature area
<b>MAMMAL</b>			
<a href="#">Antechinus bellus</a> Fawn Antechinus [344]	Vulnerable	Species or species habitat known to occur within area	In feature area
<a href="#">Balaenoptera borealis</a> Sei Whale [34]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In feature area
<a href="#">Balaenoptera musculus</a> Blue Whale [36]	Endangered	Migration route known to occur within area	In feature area
<a href="#">Balaenoptera physalus</a> Fin Whale [37]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In feature area
<a href="#">Conilurus penicillatus</a> Brush-tailed Rabbit-rat, Brush-tailed Tree-rat, Pakooma [132]	Vulnerable	Species or species habitat known to occur within area	In feature area
<a href="#">Dasyurus hallucatus</a> Northern Quoll, Digul [Gogo-Yimidir], Wijingadda [Dambimangari], Wiminji [Martu] [331]	Endangered	Species or species habitat known to occur within area	In feature area
<a href="#">Isoodon auratus auratus</a> Golden Bandicoot (mainland) [66665]	Vulnerable	Species or species habitat likely to occur within area	In feature area
<a href="#">Macroderma gigas</a> Ghost Bat [174]	Vulnerable	Species or species habitat known to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Macrotis lagotis</a> Greater Bilby [282]	Vulnerable	Species or species habitat may occur within area	In feature area
<a href="#">Mesembriomys gouldii gouldii</a> Black-footed Tree-rat (Kimberley and mainland Northern Territory), Djintamoonga, Manbul [87618]	Endangered	Species or species habitat known to occur within area	In feature area
<a href="#">Mesembriomys gouldii melvillensis</a> Black-footed Tree-rat (Melville Island) [87619]	Vulnerable	Species or species habitat known to occur within area	In feature area
<a href="#">Petrogale concinna canescens</a> Nabarlek (Top End) [87606]	Endangered	Species or species habitat likely to occur within area	In feature area
<a href="#">Petrogale concinna monastria</a> Nabarlek (Kimberley) [87607]	Endangered	Species or species habitat known to occur within area	In feature area
<a href="#">Phascogale pirata</a> Northern Brush-tailed Phascogale [82954]	Vulnerable	Species or species habitat known to occur within area	In feature area
<a href="#">Phascogale tapoatafa kimberleyensis</a> Kimberley brush-tailed phascogale, Brush-tailed Phascogale (Kimberley) [88453]	Vulnerable	Species or species habitat known to occur within area	In feature area
<a href="#">Saccolaimus saccolaimus nudicluniatus</a> Bare-rumped Sheath-tailed Bat, Bare-rumped Sheath-tail Bat [66889]	Vulnerable	Species or species habitat likely to occur within area	In feature area
<a href="#">Sminthopsis butleri</a> Butler's Dunnart [302]	Vulnerable	Species or species habitat known to occur within area	In feature area
<a href="#">Trichosurus vulpecula arnhemensis</a> Northern Brushtail Possum [83091]	Vulnerable	Species or species habitat known to occur within area	In feature area
<a href="#">Xeromys myoides</a> Water Mouse, False Water Rat, Yirrkoo [66]	Vulnerable	Species or species habitat known to occur within area	In feature area

PLANT

Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Burmanna sp. Bathurst Island (R.Fensham 1021)</a> [82017]	Endangered	Species or species habitat likely to occur within area	In feature area
<a href="#">Elaeocarpus miegei</a> [65147]	Endangered	Species or species habitat known to occur within area	In feature area
<a href="#">Hoya australis subsp. oramicola</a> a vine [55436]	Vulnerable	Species or species habitat known to occur within area	In feature area
<a href="#">Mitrella tiwiensis</a> a vine [82029]	Vulnerable	Species or species habitat likely to occur within area	In feature area
<a href="#">Stylidium ensatum</a> a triggerplant [86366]	Endangered	Species or species habitat known to occur within area	In feature area
<a href="#">Tarennoidea wallichii</a> [65173]	Endangered	Species or species habitat known to occur within area	In feature area
<a href="#">Typhonium jonesii</a> a herb [62412]	Endangered	Species or species habitat known to occur within area	In feature area
<a href="#">Typhonium mirabile</a> a herb [79227]	Endangered	Species or species habitat known to occur within area	In feature area
<a href="#">Xylopia monosperma</a> a shrub [82030]	Endangered	Species or species habitat known to occur within area	In feature area
<b>REPTILE</b>			
<a href="#">Acanthopphis hawkei</a> Plains Death Adder [83821]	Vulnerable	Species or species habitat known to occur within area	In feature area
<a href="#">Aipysurus apraefrontalis</a> Short-nosed Seasnake [1115]	Critically Endangered	Species or species habitat known to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Aipysurus foliosquama</a> Leaf-scaled Seasnake [1118]	Critically Endangered	Species or species habitat may occur within area	In feature area
<a href="#">Caretta caretta</a> Loggerhead Turtle [1763]	Endangered	Foraging, feeding or related behaviour known to occur within area	In feature area
<a href="#">Chelonia mydas</a> Green Turtle [1765]	Vulnerable	Breeding known to occur within area	In feature area
<a href="#">Dermochelys coriacea</a> Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Species or species habitat known to occur within area	In feature area
<a href="#">Eretmochelys imbricata</a> Hawksbill Turtle [1766]	Vulnerable	Breeding known to occur within area	In feature area
<a href="#">Lepidochelys olivacea</a> Olive Ridley Turtle, Pacific Ridley Turtle [1767]	Endangered	Breeding known to occur within area	In feature area
<a href="#">Natator depressus</a> Flatback Turtle [59257]	Vulnerable	Breeding known to occur within area	In feature area
<b>SHARK</b>			
<a href="#">Carcharodon carcharias</a> White Shark, Great White Shark [64470]	Vulnerable	Species or species habitat may occur within area	In feature area
<a href="#">Glyphis garricki</a> Northern River Shark, New Guinea River Shark [82454]	Endangered	Breeding known to occur within area	In feature area
<a href="#">Glyphis glyphis</a> Spear-tooth Shark [82453]	Critically Endangered	Species or species habitat known to occur within area	In feature area
<a href="#">Pristis clavata</a> Dwarf Sawfish, Queensland Sawfish [68447]	Vulnerable	Species or species habitat known to occur within area	In feature area
<a href="#">Pristis pristis</a> Freshwater Sawfish, Largetooth Sawfish, River Sawfish, Leichhardt's Sawfish, Northern Sawfish [60756]	Vulnerable	Species or species habitat known to occur within area	In feature area



Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Pristis zijsron</a> Green Sawfish, Dindagubba, Narrowsnout Sawfish [68442]	Vulnerable	Species or species habitat known to occur within area	In feature area
<a href="#">Rhincodon typus</a> Whale Shark [66680]	Vulnerable	Foraging, feeding or related behaviour known to occur within area	In feature area
<a href="#">Sphyrna lewini</a> Scalloped Hammerhead [85267]	Conservation Dependent	Species or species habitat known to occur within area	In feature area

### Listed Migratory Species [ [Resource Information](#) ]

Scientific Name	Threatened Category	Presence Text	Buffer Status
<b>Migratory Marine Birds</b>			
<a href="#">Anous stolidus</a> Common Noddy [825]		Breeding known to occur within area	In feature area
<a href="#">Apus pacificus</a> Fork-tailed Swift [678]		Species or species habitat likely to occur within area	In feature area
<a href="#">Ardenna pacifica</a> Wedge-tailed Shearwater [84292]		Breeding known to occur within area	In feature area
<a href="#">Calonectris leucomelas</a> Streaked Shearwater [1077]		Species or species habitat known to occur within area	In feature area
<a href="#">Fregata ariel</a> Lesser Frigatebird, Least Frigatebird [1012]		Breeding known to occur within area	In feature area
<a href="#">Fregata minor</a> Great Frigatebird, Greater Frigatebird [1013]		Breeding known to occur within area	In feature area
<a href="#">Hydroprogne caspia</a> Caspian Tern [808]		Breeding known to occur within area	In feature area
<a href="#">Onychoprion anaethetus</a> Bridled Tern [82845]		Breeding known to occur within area	In feature area
<a href="#">Phaethon lepturus</a> White-tailed Tropicbird [1014]		Breeding known to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Phaethon rubricauda</a> Red-tailed Tropicbird [994]		Breeding known to occur within area	In feature area
<a href="#">Sterna dougallii</a> Roseate Tern [817]		Breeding known to occur within area	In feature area
<a href="#">Sternula albifrons</a> Little Tern [82849]		Breeding known to occur within area	In feature area
<a href="#">Sula dactylatra</a> Masked Booby [1021]		Breeding known to occur within area	In feature area
<a href="#">Sula leucogaster</a> Brown Booby [1022]		Breeding known to occur within area	In feature area
<a href="#">Sula sula</a> Red-footed Booby [1023]		Breeding known to occur within area	In feature area
<b>Migratory Marine Species</b>			
<a href="#">Anoxypristis cuspidata</a> Narrow Sawfish, Knifetooth Sawfish [68448]		Species or species habitat known to occur within area	In feature area
<a href="#">Balaenoptera borealis</a> Sei Whale [34]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In feature area
<a href="#">Balaenoptera edeni</a> Bryde's Whale [35]		Species or species habitat likely to occur within area	In feature area
<a href="#">Balaenoptera musculus</a> Blue Whale [36]	Endangered	Migration route known to occur within area	In feature area
<a href="#">Balaenoptera physalus</a> Fin Whale [37]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In feature area
<a href="#">Carcharhinus longimanus</a> Oceanic Whitetip Shark [84108]		Species or species habitat may occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Carcharodon carcharias</a> White Shark, Great White Shark [64470]	Vulnerable	Species or species habitat may occur within area	In feature area
<a href="#">Caretta caretta</a> Loggerhead Turtle [1763]	Endangered	Foraging, feeding or related behaviour known to occur within area	In feature area
<a href="#">Chelonia mydas</a> Green Turtle [1765]	Vulnerable	Breeding known to occur within area	In feature area
<a href="#">Crocodylus porosus</a> Salt-water Crocodile, Estuarine Crocodile [1774]		Species or species habitat likely to occur within area	In feature area
<a href="#">Dermochelys coriacea</a> Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Species or species habitat known to occur within area	In feature area
<a href="#">Dugong dugon</a> Dugong [28]		Breeding known to occur within area	In feature area
<a href="#">Eretmochelys imbricata</a> Hawksbill Turtle [1766]	Vulnerable	Breeding known to occur within area	In feature area
<a href="#">Isurus oxyrinchus</a> Shortfin Mako, Mako Shark [79073]		Species or species habitat likely to occur within area	In feature area
<a href="#">Isurus paucus</a> Longfin Mako [82947]		Species or species habitat likely to occur within area	In feature area
<a href="#">Lepidochelys olivacea</a> Olive Ridley Turtle, Pacific Ridley Turtle [1767]	Endangered	Breeding known to occur within area	In feature area
<a href="#">Megaptera novaeangliae</a> Humpback Whale [38]		Breeding known to occur within area	In feature area
<a href="#">Mobula alfredi as Manta alfredi</a> Reef Manta Ray, Coastal Manta Ray [90033]		Species or species habitat known to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Mobula birostris as Manta birostris</a> Giant Manta Ray [90034]		Species or species habitat likely to occur within area	In feature area
<a href="#">Natator depressus</a> Flatback Turtle [59257]	Vulnerable	Breeding known to occur within area	In feature area
<a href="#">Orcaella heinsohni</a> Australian Snubfin Dolphin [81322]		Breeding known to occur within area	In feature area
<a href="#">Orcinus orca</a> Killer Whale, Orca [46]		Species or species habitat may occur within area	In feature area
<a href="#">Physeter macrocephalus</a> Sperm Whale [59]		Species or species habitat may occur within area	In feature area
<a href="#">Pristis clavata</a> Dwarf Sawfish, Queensland Sawfish [68447]	Vulnerable	Species or species habitat known to occur within area	In feature area
<a href="#">Pristis pristis</a> Freshwater Sawfish, Largetooth Sawfish, River Sawfish, Leichhardt's Sawfish, Northern Sawfish [60756]	Vulnerable	Species or species habitat known to occur within area	In feature area
<a href="#">Pristis zijsron</a> Green Sawfish, Dindagubba, Narrowsnout Sawfish [68442]	Vulnerable	Species or species habitat known to occur within area	In feature area
<a href="#">Rhincodon typus</a> Whale Shark [66680]	Vulnerable	Foraging, feeding or related behaviour known to occur within area	In feature area
<a href="#">Sousa sahalensis as Sousa chinensis</a> Australian Humpback Dolphin [87942]		Breeding known to occur within area	In feature area
<a href="#">Tursiops aduncus (Arafura/Timor Sea populations)</a> Spotted Bottlenose Dolphin (Arafura/Timor Sea populations) [78900]		Species or species habitat known to occur within area	In feature area

## Migratory Terrestrial Species

Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Cecropis daurica</a> Red-rumped Swallow [80610]		Species or species habitat known to occur within area	In feature area
<a href="#">Cuculus optatus</a> Oriental Cuckoo, Horsfield's Cuckoo [86651]		Species or species habitat known to occur within area	In feature area
<a href="#">Hirundo rustica</a> Barn Swallow [662]		Species or species habitat known to occur within area	In feature area
<a href="#">Motacilla cinerea</a> Grey Wagtail [642]		Species or species habitat known to occur within area	In feature area
<a href="#">Motacilla flava</a> Yellow Wagtail [644]		Species or species habitat known to occur within area	In feature area
<a href="#">Rhipidura rufifrons</a> Rufous Fantail [592]		Species or species habitat known to occur within area	In feature area
<b>Migratory Wetlands Species</b>			
<a href="#">Acrocephalus orientalis</a> Oriental Reed-Warbler [59570]		Species or species habitat known to occur within area	In feature area
<a href="#">Actitis hypoleucos</a> Common Sandpiper [59309]		Species or species habitat known to occur within area	In feature area
<a href="#">Arenaria interpres</a> Ruddy Turnstone [872]		Roosting known to occur within area	In feature area
<a href="#">Calidris acuminata</a> Sharp-tailed Sandpiper [874]		Roosting known to occur within area	In feature area
<a href="#">Calidris alba</a> Sanderling [875]		Roosting known to occur within area	In feature area
<a href="#">Calidris canutus</a> Red Knot, Knot [855]	Endangered	Species or species habitat known to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Calidris ferruginea</a> Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area	In feature area
<a href="#">Calidris melanotos</a> Pectoral Sandpiper [858]		Species or species habitat known to occur within area	In feature area
<a href="#">Calidris ruficollis</a> Red-necked Stint [860]		Roosting known to occur within area	In feature area
<a href="#">Calidris subminuta</a> Long-toed Stint [861]		Roosting known to occur within area	In feature area
<a href="#">Calidris tenuirostris</a> Great Knot [862]	Critically Endangered	Roosting known to occur within area	In feature area
<a href="#">Charadrius dubius</a> Little Ringed Plover [896]		Roosting known to occur within area	In feature area
<a href="#">Charadrius leschenaultii</a> Greater Sand Plover, Large Sand Plover [877]	Vulnerable	Species or species habitat known to occur within area	In feature area
<a href="#">Charadrius mongolus</a> Lesser Sand Plover, Mongolian Plover [879]	Endangered	Roosting known to occur within area	In feature area
<a href="#">Charadrius veredus</a> Oriental Plover, Oriental Dotterel [882]		Roosting known to occur within area	In feature area
<a href="#">Gallinago megala</a> Swinhoe's Snipe [864]		Roosting known to occur within area	In feature area
<a href="#">Gallinago stenura</a> Pin-tailed Snipe [841]		Roosting likely to occur within area	In feature area
<a href="#">Glareola maldivarum</a> Oriental Pratincole [840]		Roosting known to occur within area	In feature area
<a href="#">Limicola falcinellus</a> Broad-billed Sandpiper [842]		Roosting known to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Limnodromus semipalmatus</a> Asian Dowitcher [843]		Species or species habitat known to occur within area	In feature area
<a href="#">Limosa lapponica</a> Bar-tailed Godwit [844]		Species or species habitat known to occur within area	In feature area
<a href="#">Limosa limosa</a> Black-tailed Godwit [845]		Roosting known to occur within area	In feature area
<a href="#">Numenius madagascariensis</a> Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat known to occur within area	In feature area
<a href="#">Numenius minutus</a> Little Curlew, Little Whimbrel [848]		Roosting known to occur within area	In feature area
<a href="#">Numenius phaeopus</a> Whimbrel [849]		Roosting known to occur within area	In feature area
<a href="#">Pandion haliaetus</a> Osprey [952]		Breeding known to occur within area	In feature area
<a href="#">Pluvialis fulva</a> Pacific Golden Plover [25545]		Roosting known to occur within area	In feature area
<a href="#">Pluvialis squatarola</a> Grey Plover [865]		Roosting known to occur within area	In feature area
<a href="#">Thalasseus bergii</a> Greater Crested Tern [83000]		Breeding known to occur within area	In feature area
<a href="#">Tringa brevipes</a> Grey-tailed Tattler [851]		Roosting known to occur within area	In feature area
<a href="#">Tringa glareola</a> Wood Sandpiper [829]		Roosting known to occur within area	In feature area
<a href="#">Tringa incana</a> Wandering Tattler [831]		Roosting known to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Tringa nebularia</a> Common Greenshank, Greenshank [832]		Species or species habitat known to occur within area	In feature area
<a href="#">Tringa stagnatilis</a> Marsh Sandpiper, Little Greenshank [833]		Roosting known to occur within area	In feature area
<a href="#">Xenus cinereus</a> Terek Sandpiper [59300]		Roosting known to occur within area	In feature area

## Other Matters Protected by the EPBC Act

### Commonwealth Lands [\[ Resource Information \]](#)

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

Commonwealth Land Name	State	Buffer Status
<b>Attorney-General - Australian Customs Service</b>		
Commonwealth Land - Australian Customs Service [70998]	NT	In feature area
<b>Attorney-General - Australian Government Solicitor</b>		
Commonwealth Land - Australian Government Solicitor [70444]	NT	In feature area
Commonwealth Land - Australian Government Solicitor [70996]	NT	In feature area
Commonwealth Land - Australian Government Solicitor [70089]	NT	In feature area
Commonwealth Land - Australian Government Solicitor [70093]	NT	In feature area
Commonwealth Land - Australian Government Solicitor [70208]	NT	In feature area
Commonwealth Land - Australian Government Solicitor [71135]	NT	In feature area
Commonwealth Land - Australian Government Solicitor [70332]	NT	In feature area
Commonwealth Land - Australian Government Solicitor [70450]	NT	In feature area
Commonwealth Land - Australian Government Solicitor [70092]	NT	In feature area
Commonwealth Land - Deputy Crown Solicitor [70994]	NT	In feature area
Commonwealth Land - Deputy Crown Solicitor [70334]	NT	In feature area
Commonwealth Land - Deputy Crown Solicitor [70333]	NT	In feature area
<b>Defence</b>		
Defence - AUSTRALIAN ARMY BAND - DARWIN [70042]	NT	In feature area



Commonwealth Land Name	State	Buffer Status
Defence - BERRIMAH ONE [70053]	NT	In feature area
Defence - DARWIN - AP10 RADAR SITE - LEE POINT [70021]	NT	In feature area
Defence - DARWIN - AP3 RECEIVING STATION - LEE POINT [70044]	NT	In feature area
Defence - DARWIN RELOCATIONS CENTRE [70045]	NT	In feature area
Defence - DARWIN - TRANSMITTING STATION '11 MILE' [70027]	NT	In feature area
Defence - DEFENCE FORCE CAREERS REFERENCE CENTRE [70046]	NT	In feature area
Defence - Esanda Builidng [70048]	NT	In feature area
Defence - HMAS COONAWARRA (Berrimah) [70050]	NT	In feature area
Defence - HMAS COONAWARRA (Berrimah) [70049]	NT	In feature area
Defence - HMAS COONAWARRA (Berrimah) [70051]	NT	In feature area
Defence - LARRAKEYAH BARRACKS [70061]	NT	In feature area
Defence - LEANYER BOMBING RANGE [70022]	NT	In feature area
Defence - LEANYER BOMBING RANGE [70023]	NT	In feature area
Defence - LEANYER BOMBING RANGE [70024]	NT	In feature area
Defence - MT GOODWIN RADAR SITE [70063]	NT	In feature area
Defence - Patrol Boat Base (DARWIN NAVAL BASE) [70041]	NT	In feature area
Defence - QUAIL ISLAND BOMBING RANGE [70003]	NT	In feature area
Defence - RAAF BASE DARWIN [70072]	NT	In feature area
Defence - RAAF BASE DARWIN [70073]	NT	In feature area
Defence - SHOAL BAY RECEIVING STATION [70038]	NT	In feature area
Defence - SHOAL BAY RECEIVING STATION [70037]	NT	In feature area
Defence - SHOAL BAY RECEIVING STATION [70036]	NT	In feature area
Defence - STOKES HILL OIL FUEL INSTALLATION [70035]	NT	In feature area
Defence - WINNELLIE ONE [70076]	NT	In feature area
Defence - WINNELLIE TWO [70077]	NT	In feature area
Defence - YAMPI SOUND TRAINING AREA [50145]	WA	In feature area

Defence - Defence Housing Authority

Commonwealth Land Name	State	Buffer Status
Commonwealth Land - Director of Property Services Defence Estate [70715]	NT	In feature area
Commonwealth Land - Director of Property Services Defence Estate [70855]	NT	In feature area
Commonwealth Land - Director of Property Services Defence Estate [70714]	NT	In feature area
Commonwealth Land - Director of Property Services Defence Estate [70856]	NT	In feature area
Commonwealth Land - Director of Property Services Defence Estate [70722]	NT	In feature area
<b>Family and Community Services - Department of Community Services &amp; Health</b>		
Commonwealth Land - Department of Community Services & Health [70720]	NT	In feature area
<b>Finance and Administration</b>		
Commonwealth Land - Department of Administrative Services [70590]	NT	In feature area
Commonwealth Land - Department of Administrative Services [70210]	NT	In feature area
Commonwealth Land - Department of Administrative Services [70091]	NT	In feature area
<b>Immigration and Multicultural and Indigenous Affairs - Department of Immigration Local Government and Ethnic Affairs</b>		
Commonwealth Land - Department of Immigration Local Government & Ethnic Affairs [70336]	NT	In feature area
<b>Transport and Regional Services</b>		
Commonwealth Land - Department of Transport & Regional Development [70207]	NT	In feature area
<b>Unknown</b>		
Commonwealth Land - [52253]	WA	In feature area
Commonwealth Land - [70090]	NT	In feature area
Commonwealth Land - [70591]	NT	In feature area
Commonwealth Land - [70204]	NT	In feature area
Commonwealth Land - [70205]	NT	In feature area
Commonwealth Land - [70203]	NT	In feature area
Commonwealth Land - [70995]	NT	In feature area
Commonwealth Land - [70327]	NT	In feature area
Commonwealth Land - [70999]	NT	In feature area

Commonwealth Land Name	State	Buffer Status
Commonwealth Land - [70206]	NT	In feature area
Commonwealth Land - [52252]	WA	In feature area
Commonwealth Land - [52255]	WA	In feature area
Commonwealth Land - [52276]	ACI	In feature area
Commonwealth Land - [52275]	WA	In feature area
Commonwealth Land - [70447]	NT	In feature area
Commonwealth Land - [52254]	WA	In feature area
Commonwealth Land - [52277]	ACI	In feature area
Commonwealth Land - [52278]	ACI	In feature area
Commonwealth Land - [70594]	NT	In feature area
Commonwealth Land - [70335]	NT	In feature area
Commonwealth Land - [70338]	NT	In feature area
Commonwealth Land - [70337]	NT	In feature area
Commonwealth Land - [70593]	NT	In feature area
Commonwealth Land - [70595]	NT	In feature area
Commonwealth Land - [52286]	WA	In feature area
Commonwealth Land - [70580]	NT	In feature area
Commonwealth Land - [70993]	NT	In feature area
Commonwealth Land - [70721]	NT	In feature area

Commonwealth Heritage Places			[ Resource Information ]
Name	State	Status	Buffer Status
Historic			
<a href="#">Larrakeyah Barracks Headquarters Building</a>	NT	Listed place	In feature area
<a href="#">Larrakeyah Barracks Precinct</a>	NT	Listed place	In feature area
<a href="#">Larrakeyah Barracks Sergeants Mess</a>	NT	Listed place	In feature area
<a href="#">RAAF Base Commanding Officers Residence</a>	NT	Listed place	In feature area
<a href="#">RAAF Base Precinct</a>	NT	Listed place	In feature area
<a href="#">RAAF Base Tropical Housing Type 2</a>	NT	Listed place	In feature area

Name	State	Status	Buffer Status
<a href="#">RAAF Base Tropical Housing Type 3</a>	NT	Listed place	In feature area
<b>Natural</b>			
<a href="#">Ashmore Reef National Nature Reserve</a>	EXT	Listed place	In feature area
<a href="#">Scott Reef and Surrounds - Commonwealth Area</a>	EXT	Listed place	In feature area
<a href="#">Yampi Defence Area</a>	WA	Listed place	In feature area

Listed Marine Species	[ Resource Information ]		
Scientific Name	Threatened Category	Presence Text	Buffer Status

Bird			
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<a href="#">Acrocephalus orientalis</a> Oriental Reed-Warbler [59570]		Species or species habitat known to occur within area overfly marine area	In feature area
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<a href="#">Actitis hypoleucos</a> Common Sandpiper [59309]		Species or species habitat known to occur within area	In feature area
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<a href="#">Anous minutus</a> Black Noddy [824]		Breeding known to occur within area	In feature area
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<a href="#">Anous stolidus</a> Common Noddy [825]		Breeding known to occur within area	In feature area
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<a href="#">Anous tenuirostris melanops</a> Australian Lesser Noddy [26000]	Vulnerable	Breeding known to occur within area	In feature area
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<a href="#">Anseranas semipalmata</a> Magpie Goose [978]		Species or species habitat may occur within area overfly marine area	In feature area
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<a href="#">Apus pacificus</a> Fork-tailed Swift [678]		Species or species habitat likely to occur within area overfly marine area	In feature area
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<a href="#">Ardenna pacifica as Puffinus pacificus</a> Wedge-tailed Shearwater [84292]		Breeding known to occur within area	In feature area
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<a href="#">Arenaria interpres</a> Ruddy Turnstone [872]		Roosting known to occur within area	In feature area
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Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Bubulcus ibis as Ardea ibis</a> Cattle Egret [66521]		Species or species habitat may occur within area overfly marine area	In feature area
<a href="#">Calidris acuminata</a> Sharp-tailed Sandpiper [874]		Roosting known to occur within area	In feature area
<a href="#">Calidris alba</a> Sanderling [875]		Roosting known to occur within area	In feature area
<a href="#">Calidris canutus</a> Red Knot, Knot [855]	Endangered	Species or species habitat known to occur within area overfly marine area	In feature area
<a href="#">Calidris ferruginea</a> Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area overfly marine area	In feature area
<a href="#">Calidris melanotos</a> Pectoral Sandpiper [858]		Species or species habitat known to occur within area overfly marine area	In feature area
<a href="#">Calidris ruficollis</a> Red-necked Stint [860]		Roosting known to occur within area overfly marine area	In feature area
<a href="#">Calidris subminuta</a> Long-toed Stint [861]		Roosting known to occur within area overfly marine area	In feature area
<a href="#">Calidris tenuirostris</a> Great Knot [862]	Critically Endangered	Roosting known to occur within area overfly marine area	In feature area
<a href="#">Calonectris leucomelas</a> Streaked Shearwater [1077]		Species or species habitat known to occur within area	In feature area
<a href="#">Cecropis daurica as Hirundo daurica</a> Red-rumped Swallow [80610]		Species or species habitat known to occur within area overfly marine area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Chalcites osculans as Chrysococcyx osculans</a> Black-eared Cuckoo [83425]		Species or species habitat known to occur within area overfly marine area	In feature area
<a href="#">Charadrius dubius</a> Little Ringed Plover [896]		Roosting known to occur within area overfly marine area	In feature area
<a href="#">Charadrius leschenaultii</a> Greater Sand Plover, Large Sand Plover [877]	Vulnerable	Species or species habitat known to occur within area	In feature area
<a href="#">Charadrius mongolus</a> Lesser Sand Plover, Mongolian Plover [879]	Endangered	Roosting known to occur within area	In feature area
<a href="#">Charadrius ruficapillus</a> Red-capped Plover [881]		Roosting known to occur within area overfly marine area	In feature area
<a href="#">Charadrius veredus</a> Oriental Plover, Oriental Dotterel [882]		Roosting known to occur within area overfly marine area	In feature area
<a href="#">Chroicocephalus novaehollandiae as Larus novaehollandiae</a> Silver Gull [82326]		Breeding known to occur within area	In feature area
<a href="#">Fregata ariel</a> Lesser Frigatebird, Least Frigatebird [1012]		Breeding known to occur within area	In feature area
<a href="#">Fregata minor</a> Great Frigatebird, Greater Frigatebird [1013]		Breeding known to occur within area	In feature area
<a href="#">Gallinago megala</a> Swinhoe's Snipe [864]		Roosting known to occur within area overfly marine area	In feature area
<a href="#">Gallinago stenura</a> Pin-tailed Snipe [841]		Roosting likely to occur within area overfly marine area	In feature area
<a href="#">Glareola maldivarum</a> Oriental Pratincole [840]		Roosting known to occur within area overfly marine area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Haliaeetus leucogaster</a> White-bellied Sea-Eagle [943]		Species or species habitat known to occur within area	In feature area
<a href="#">Himantopus himantopus</a> Pied Stilt, Black-winged Stilt [870]		Roosting known to occur within area overfly marine area	In feature area
<a href="#">Hirundo rustica</a> Barn Swallow [662]		Species or species habitat known to occur within area overfly marine area	In feature area
<a href="#">Hydroprogne caspia as Sterna caspia</a> Caspian Tern [808]		Breeding known to occur within area	In feature area
<a href="#">Limicola falcinellus</a> Broad-billed Sandpiper [842]		Roosting known to occur within area overfly marine area	In feature area
<a href="#">Limnodromus semipalmatus</a> Asian Dowitcher [843]		Species or species habitat known to occur within area overfly marine area	In feature area
<a href="#">Limosa lapponica</a> Bar-tailed Godwit [844]		Species or species habitat known to occur within area	In feature area
<a href="#">Limosa limosa</a> Black-tailed Godwit [845]		Roosting known to occur within area overfly marine area	In feature area
<a href="#">Merops ornatus</a> Rainbow Bee-eater [670]		Species or species habitat may occur within area overfly marine area	In feature area
<a href="#">Motacilla cinerea</a> Grey Wagtail [642]		Species or species habitat known to occur within area overfly marine area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Motacilla flava</a> Yellow Wagtail [644]		Species or species habitat known to occur within area overfly marine area	In feature area
<a href="#">Numenius madagascariensis</a> Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat known to occur within area	In feature area
<a href="#">Numenius minutus</a> Little Curlew, Little Whimbrel [848]		Roosting known to occur within area overfly marine area	In feature area
<a href="#">Numenius phaeopus</a> Whimbrel [849]		Roosting known to occur within area	In feature area
<a href="#">Onychoprion anaethetus as Sterna anaethetus</a> Bridled Tern [82845]		Breeding known to occur within area	In feature area
<a href="#">Pandion haliaetus</a> Osprey [952]		Breeding known to occur within area	In feature area
<a href="#">Papasula abbotti</a> Abbott's Booby [59297]	Endangered	Species or species habitat may occur within area	In feature area
<a href="#">Phaethon lepturus</a> White-tailed Tropicbird [1014]		Breeding known to occur within area	In feature area
<a href="#">Phaethon rubricauda</a> Red-tailed Tropicbird [994]		Breeding known to occur within area	In feature area
<a href="#">Pluvialis fulva</a> Pacific Golden Plover [25545]		Roosting known to occur within area	In feature area
<a href="#">Pluvialis squatarola</a> Grey Plover [865]		Roosting known to occur within area overfly marine area	In feature area
<a href="#">Rhipidura rufifrons</a> Rufous Fantail [592]		Species or species habitat known to occur within area overfly marine area	In feature area



Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Rostratula australis as Rostratula benghalensis (sensu lato)</a> Australian Painted Snipe [77037]	Endangered	Species or species habitat likely to occur within area overfly marine area	In feature area
<a href="#">Sterna dougallii</a> Roseate Tern [817]		Breeding known to occur within area	In feature area
<a href="#">Sternula albifrons as Sterna albifrons</a> Little Tern [82849]		Breeding known to occur within area	In feature area
<a href="#">Stiltia isabella</a> Australian Pratincole [818]		Roosting known to occur within area overfly marine area	In feature area
<a href="#">Sula dactylatra</a> Masked Booby [1021]		Breeding known to occur within area	In feature area
<a href="#">Sula leucogaster</a> Brown Booby [1022]		Breeding known to occur within area	In feature area
<a href="#">Sula sula</a> Red-footed Booby [1023]		Breeding known to occur within area	In feature area
<a href="#">Thalasseus bengalensis as Sterna bengalensis</a> Lesser Crested Tern [66546]		Breeding known to occur within area	In feature area
<a href="#">Thalasseus bergii as Sterna bergii</a> Greater Crested Tern [83000]		Breeding known to occur within area	In feature area
<a href="#">Tringa brevipes as Heteroscelus brevipes</a> Grey-tailed Tattler [851]		Roosting known to occur within area	In feature area
<a href="#">Tringa glareola</a> Wood Sandpiper [829]		Roosting known to occur within area overfly marine area	In feature area
<a href="#">Tringa incana as Heteroscelus incanus</a> Wandering Tattler [831]		Roosting known to occur within area	In feature area
<a href="#">Tringa nebularia</a> Common Greenshank, Greenshank [832]		Species or species habitat known to occur within area overfly marine area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Tringa stagnatilis</a> Marsh Sandpiper, Little Greenshank [833]		Roosting known to occur within area overfly marine area	In feature area
<a href="#">Xenus cinereus</a> Terek Sandpiper [59300]		Roosting known to occur within area overfly marine area	In feature area
<b>Fish</b>			
<a href="#">Bhanotia fasciolata</a> Corrugated Pipefish, Barbed Pipefish [66188]		Species or species habitat may occur within area	In feature area
<a href="#">Campichthys tricarinatus</a> Three-keel Pipefish [66192]		Species or species habitat may occur within area	In feature area
<a href="#">Choeroichthys brachysoma</a> Pacific Short-bodied Pipefish, Short-bodied Pipefish [66194]		Species or species habitat may occur within area	In feature area
<a href="#">Choeroichthys suillus</a> Pig-snouted Pipefish [66198]		Species or species habitat may occur within area	In feature area
<a href="#">Corythoichthys amplexus</a> Fijian Banded Pipefish, Brown-banded Pipefish [66199]		Species or species habitat may occur within area	In feature area
<a href="#">Corythoichthys flavofasciatus</a> Reticulate Pipefish, Yellow-banded Pipefish, Network Pipefish [66200]		Species or species habitat may occur within area	In feature area
<a href="#">Corythoichthys haematopterus</a> Reef-top Pipefish [66201]		Species or species habitat may occur within area	In feature area
<a href="#">Corythoichthys intestinalis</a> Australian Messmate Pipefish, Banded Pipefish [66202]		Species or species habitat may occur within area	In feature area
<a href="#">Corythoichthys schultzi</a> Schultz's Pipefish [66205]		Species or species habitat may occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Cosmocampus banneri</a> Roughridge Pipefish [66206]		Species or species habitat may occur within area	In feature area
<a href="#">Doryrhamphus dactyliophorus</a> Banded Pipefish, Ringed Pipefish [66210]		Species or species habitat may occur within area	In feature area
<a href="#">Doryrhamphus excisus</a> Bluestripe Pipefish, Indian Blue-stripe Pipefish, Pacific Blue-stripe Pipefish [66211]		Species or species habitat may occur within area	In feature area
<a href="#">Doryrhamphus janssi</a> Cleaner Pipefish, Janss' Pipefish [66212]		Species or species habitat may occur within area	In feature area
<a href="#">Festucalex cinctus</a> Girdled Pipefish [66214]		Species or species habitat may occur within area	In feature area
<a href="#">Filicampus tigris</a> Tiger Pipefish [66217]		Species or species habitat may occur within area	In feature area
<a href="#">Halicampus brocki</a> Brock's Pipefish [66219]		Species or species habitat may occur within area	In feature area
<a href="#">Halicampus dunckeri</a> Red-hair Pipefish, Duncker's Pipefish [66220]		Species or species habitat may occur within area	In feature area
<a href="#">Halicampus grayi</a> Mud Pipefish, Gray's Pipefish [66221]		Species or species habitat may occur within area	In feature area
<a href="#">Halicampus spinirostris</a> Spiny-snout Pipefish [66225]		Species or species habitat may occur within area	In feature area
<a href="#">Haliichthys taeniophorus</a> Ribbioned Pipehorse, Ribbioned Seadragon [66226]		Species or species habitat may occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Hippichthys cyanospilos</a> Blue-speckled Pipefish, Blue-spotted Pipefish [66228]		Species or species habitat may occur within area	In feature area
<a href="#">Hippichthys parvicarinatus</a> Short-keel Pipefish, Short-keeled Pipefish [66230]		Species or species habitat may occur within area	In feature area
<a href="#">Hippichthys penicillus</a> Beady Pipefish, Steep-nosed Pipefish [66231]		Species or species habitat may occur within area	In feature area
<a href="#">Hippocampus angustus</a> Western Spiny Seahorse, Narrow-bellied Seahorse [66234]		Species or species habitat may occur within area	In feature area
<a href="#">Hippocampus histrix</a> Spiny Seahorse, Thorny Seahorse [66236]		Species or species habitat may occur within area	In feature area
<a href="#">Hippocampus kuda</a> Spotted Seahorse, Yellow Seahorse [66237]		Species or species habitat may occur within area	In feature area
<a href="#">Hippocampus planifrons</a> Flat-face Seahorse [66238]		Species or species habitat may occur within area	In feature area
<a href="#">Hippocampus spinosissimus</a> Hedgehog Seahorse [66239]		Species or species habitat may occur within area	In feature area
<a href="#">Micrognathus micronotopterus</a> Tidepool Pipefish [66255]		Species or species habitat may occur within area	In feature area
<a href="#">Solegnathus hardwickii</a> Pallid Pipehorse, Hardwick's Pipehorse [66272]		Species or species habitat may occur within area	In feature area
<a href="#">Solegnathus lettiensis</a> Gunther's Pipehorse, Indonesian Pipefish [66273]		Species or species habitat may occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Solenostomus cyanopterus</a> Robust Ghostpipefish, Blue-finned Ghost Pipefish, [66183]		Species or species habitat may occur within area	In feature area
<a href="#">Syngnathoides biaculeatus</a> Double-end Pipehorse, Double-ended Pipehorse, Alligator Pipefish [66279]		Species or species habitat may occur within area	In feature area
<a href="#">Trachyrhamphus bicoarctatus</a> Bentstick Pipefish, Bend Stick Pipefish, Short-tailed Pipefish [66280]		Species or species habitat may occur within area	In feature area
<a href="#">Trachyrhamphus longirostris</a> Straightstick Pipefish, Long-nosed Pipefish, Straight Stick Pipefish [66281]		Species or species habitat may occur within area	In feature area
<b>Mammal</b>			
<a href="#">Dugong dugon</a> Dugong [28]		Breeding known to occur within area	In feature area
<b>Reptile</b>			
<a href="#">Acalyptophis peronii</a> Horned Seasnake [1114]		Species or species habitat may occur within area	In feature area
<a href="#">Aipysurus apraefrontalis</a> Short-nosed Seasnake [1115]	Critically Endangered	Species or species habitat known to occur within area	In feature area
<a href="#">Aipysurus duboisii</a> Dubois' Seasnake [1116]		Species or species habitat may occur within area	In feature area
<a href="#">Aipysurus eydouxii</a> Spine-tailed Seasnake [1117]		Species or species habitat may occur within area	In feature area
<a href="#">Aipysurus foliosquama</a> Leaf-scaled Seasnake [1118]	Critically Endangered	Species or species habitat may occur within area	In feature area
<a href="#">Aipysurus fuscus</a> Dusky Seasnake [1119]		Species or species habitat known to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Aipysurus laevis</a> Olive Seasnake [1120]		Species or species habitat may occur within area	In feature area
<a href="#">Aipysurus tenuis</a> Brown-lined Seasnake [1121]		Species or species habitat may occur within area	In feature area
<a href="#">Astrotia stokesii</a> Stokes' Seasnake [1122]		Species or species habitat may occur within area	In feature area
<a href="#">Caretta caretta</a> Loggerhead Turtle [1763]	Endangered	Foraging, feeding or related behaviour known to occur within area	In feature area
<a href="#">Chelonia mydas</a> Green Turtle [1765]	Vulnerable	Breeding known to occur within area	In feature area
<a href="#">Chitulia inornata as Hydrophis inornatus</a> Plain Seasnake [87379]		Species or species habitat may occur within area	In feature area
<a href="#">Chitulia ornata as Hydrophis ornatus</a> Spotted Seasnake, Ornate Reef Seasnake [87377]		Species or species habitat may occur within area	In feature area
<a href="#">Crocodylus johnstoni</a> Freshwater Crocodile, Johnston's Crocodile, Johnstone's Crocodile [1773]		Species or species habitat may occur within area	In feature area
<a href="#">Crocodylus porosus</a> Salt-water Crocodile, Estuarine Crocodile [1774]		Species or species habitat likely to occur within area	In feature area
<a href="#">Dermochelys coriacea</a> Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Species or species habitat known to occur within area	In feature area
<a href="#">Disteira kingii</a> Spectacled Seasnake [1123]		Species or species habitat may occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Disteira major</a> Olive-headed Seasnake [1124]		Species or species habitat may occur within area	In feature area
<a href="#">Emydocephalus annulatus</a> Turtle-headed Seasnake [1125]		Species or species habitat may occur within area	In feature area
<a href="#">Enhydrina schistosa</a> Beaked Seasnake [1126]		Species or species habitat may occur within area	In feature area
<a href="#">Ephalophis greyi</a> North-western Mangrove Seasnake [1127]		Species or species habitat may occur within area	In feature area
<a href="#">Eretmochelys imbricata</a> Hawksbill Turtle [1766]	Vulnerable	Breeding known to occur within area	In feature area
<a href="#">Hydrelaps darwiniensis</a> Black-ringed Seasnake [1100]		Species or species habitat may occur within area	In feature area
<a href="#">Hydrophis atriceps</a> Black-headed Seasnake [1101]		Species or species habitat may occur within area	In feature area
<a href="#">Hydrophis elegans</a> Elegant Seasnake [1104]		Species or species habitat may occur within area	In feature area
<a href="#">Hydrophis macdowellii as Hydrophis mcdowellii</a> Small-headed Seasnake [75601]		Species or species habitat may occur within area	In feature area
<a href="#">Lapemis curtus as Lapemis hardwickii</a> Spine-bellied Seasnake [83554]		Species or species habitat may occur within area	In feature area
<a href="#">Leioselasma coggeri as Hydrophis coggeri</a> Black-headed Sea Snake, Slender-necked Seasnake [87373]		Species or species habitat may occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Leioselasma pacifica as Hydrophis pacificus</a> Large-headed Seasnake, Pacific Seasnake [87378]		Species or species habitat may occur within area	In feature area
<a href="#">Lepidochelys olivacea</a> Olive Ridley Turtle, Pacific Ridley Turtle [1767]	Endangered	Breeding known to occur within area	In feature area
<a href="#">Natator depressus</a> Flatback Turtle [59257]	Vulnerable	Breeding known to occur within area	In feature area
<a href="#">Parahydrophis mertoni</a> Northern Mangrove Seasnake [1090]		Species or species habitat may occur within area	In feature area
<a href="#">Pelamis platurus</a> Yellow-bellied Seasnake [1091]		Species or species habitat may occur within area	In feature area

## Whales and Other Cetaceans [ [Resource Information](#) ]

Current Scientific Name	Status	Type of Presence	Buffer Status
Mammal			
<a href="#">Balaenoptera borealis</a> Sei Whale [34]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In feature area
<a href="#">Balaenoptera edeni</a> Bryde's Whale [35]		Species or species habitat likely to occur within area	In feature area
<a href="#">Balaenoptera musculus</a> Blue Whale [36]	Endangered	Migration route known to occur within area	In feature area
<a href="#">Balaenoptera physalus</a> Fin Whale [37]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In feature area
<a href="#">Delphinus delphis</a> Common Dolphin, Short-beaked Common Dolphin [60]		Species or species habitat may occur within area	In feature area



Current Scientific Name	Status	Type of Presence	Buffer Status
<a href="#">Feresa attenuata</a> Pygmy Killer Whale [61]		Species or species habitat may occur within area	In feature area
<a href="#">Globicephala macrorhynchus</a> Short-finned Pilot Whale [62]		Species or species habitat may occur within area	In feature area
<a href="#">Grampus griseus</a> Risso's Dolphin, Grampus [64]		Species or species habitat may occur within area	In feature area
<a href="#">Kogia breviceps</a> Pygmy Sperm Whale [57]		Species or species habitat may occur within area	In feature area
<a href="#">Kogia sima</a> Dwarf Sperm Whale [85043]		Species or species habitat may occur within area	In feature area
<a href="#">Lagenodelphis hosei</a> Fraser's Dolphin, Sarawak Dolphin [41]		Species or species habitat may occur within area	In feature area
<a href="#">Megaptera novaeangliae</a> Humpback Whale [38]		Breeding known to occur within area	In feature area
<a href="#">Mesoplodon densirostris</a> Blainville's Beaked Whale, Dense-beaked Whale [74]		Species or species habitat may occur within area	In feature area
<a href="#">Orcaella heinsohni</a> Australian Snubfin Dolphin [81322]		Breeding known to occur within area	In feature area
<a href="#">Orcinus orca</a> Killer Whale, Orca [46]		Species or species habitat may occur within area	In feature area
<a href="#">Peponocephala electra</a> Melon-headed Whale [47]		Species or species habitat may occur within area	In feature area
<a href="#">Physeter macrocephalus</a> Sperm Whale [59]		Species or species habitat may occur within area	In feature area

Current Scientific Name	Status	Type of Presence	Buffer Status
<a href="#">Pseudorca crassidens</a> False Killer Whale [48]		Species or species habitat likely to occur within area	In feature area
<a href="#">Sousa sahalensis</a> Australian Humpback Dolphin [87942]		Breeding known to occur within area	In feature area
<a href="#">Stenella attenuata</a> Spotted Dolphin, Pantropical Spotted Dolphin [51]		Species or species habitat may occur within area	In feature area
<a href="#">Stenella coeruleoalba</a> Striped Dolphin, Euphrosyne Dolphin [52]		Species or species habitat may occur within area	In feature area
<a href="#">Stenella longirostris</a> Long-snouted Spinner Dolphin [29]		Species or species habitat may occur within area	In feature area
<a href="#">Steno bredanensis</a> Rough-toothed Dolphin [30]		Species or species habitat may occur within area	In feature area
<a href="#">Tursiops aduncus</a> Indian Ocean Bottlenose Dolphin, Spotted Bottlenose Dolphin [68418]		Species or species habitat likely to occur within area	In feature area
<a href="#">Tursiops aduncus (Arafura/Timor Sea populations)</a> Spotted Bottlenose Dolphin (Arafura/Timor Sea populations) [78900]		Species or species habitat known to occur within area	In feature area
<a href="#">Tursiops truncatus s. str.</a> Bottlenose Dolphin [68417]		Species or species habitat may occur within area	In feature area
<a href="#">Ziphius cavirostris</a> Cuvier's Beaked Whale, Goose-beaked Whale [56]		Species or species habitat may occur within area	In feature area

Australian Marine Parks		[ Resource Information ]
Park Name	Zone & IUCN Categories	Buffer Status
Kimberley	Habitat Protection Zone (IUCN IV)	In feature area

Park Name	Zone & IUCN Categories	Buffer Status
Kimberley	Habitat Protection Zone (IUCN IV)	In feature area
Oceanic Shoals	Habitat Protection Zone (IUCN IV)	In feature area
Joseph Bonaparte Gulf	Multiple Use Zone (IUCN VI)	In feature area
Kimberley	Multiple Use Zone (IUCN VI)	In feature area
Oceanic Shoals	Multiple Use Zone (IUCN VI)	In feature area
Oceanic Shoals	Multiple Use Zone (IUCN VI)	In feature area
Kimberley	National Park Zone (IUCN II)	In feature area
Oceanic Shoals	National Park Zone (IUCN II)	In feature area
Ashmore Reef	Recreational Use Zone (IUCN IV)	In feature area
Ashmore Reef	Sanctuary Zone (IUCN Ia)	In feature area
Cartier Island	Sanctuary Zone (IUCN Ia)	In feature area
Joseph Bonaparte Gulf	Special Purpose Zone (IUCN VI)	In feature area
Oceanic Shoals	Special Purpose Zone (Trawl) (IUCN VI)	In feature area

### Habitat Critical to the Survival of Marine Turtles

Scientific Name	Behaviour	Presence	Buffer Status
Aug - Sep			
<a href="#">Natator depressus</a> Flatback Turtle [59257]	Nesting	Known to occur	In feature area
Dec - Jan			
<a href="#">Chelonia mydas</a> Green Turtle [1765]	Nesting	Known to occur	In feature area
<a href="#">Dermochelys coriacea</a> Leatherback Turtle [1768]	Nesting	Known to occur	In feature area
May - Jul			
<a href="#">Lepidochelys olivacea</a> Olive Ridley Turtle [1767]	Nesting	Known to occur	In feature area

## Extra Information

State and Territory Reserves			[ Resource Information ]
Protected Area Name	Reserve Type	State	Buffer Status
Adele Island	Nature Reserve	WA	In feature area
Balangarra	Indigenous Protected Area	WA	In feature area
Bardi Jawi	Indigenous Protected Area	WA	In feature area
Browse Island	Nature Reserve	WA	In feature area
Casuarina	Coastal Reserve	NT	In feature area
Charles Darwin	National Park	NT	In feature area
Dambimangari	Indigenous Protected Area	WA	In feature area
Djukbinj	National Park	NT	In feature area
Holmes Jungle	Nature Park	NT	In feature area
Knuckey Lagoons	Conservation Reserve	NT	In feature area
Lalang-garram / Camden Sound	Marine Park	WA	In feature area
Lalang-garram / Horizontal Falls	Marine Park	WA	In feature area
Lawley River	National Park	WA	In feature area
Lesueur Island	Nature Reserve	WA	In feature area
Low Rocks	Nature Reserve	WA	In feature area
Marri-Jabin (Thamurrurr - Stage 1)	Indigenous Protected Area	NT	In feature area
Mitchell River	National Park	WA	In feature area
Niiwalarra Islands	National Park	WA	In feature area
North Kimberley	Marine Park	WA	In feature area
North Lalang-garram	Marine Park	WA	In feature area
Prince Regent	National Park	WA	In feature area
Scott Reef	Nature Reserve	WA	In feature area
Tanner Island	Nature Reserve	WA	In feature area

Protected Area Name	Reserve Type	State	Buffer Status
Unnamed WA28968	5(1)(h) Reserve	WA	In feature area
Unnamed WA41775	5(1)(h) Reserve	WA	In feature area
Unnamed WA44669	5(1)(h) Reserve	WA	In feature area
Unnamed WA44673	5(1)(h) Reserve	WA	In feature area
Unnamed WA44677	5(1)(h) Reserve	WA	In feature area
Uunguu	Indigenous Protected Area	WA	In feature area
Wilinggin	Indigenous Protected Area	WA	In feature area

### Nationally Important Wetlands [\[ Resource Information \]](#)

Wetland Name	State	Buffer Status
<a href="#">Adelaide River Floodplain System</a>	NT	In feature area
<a href="#">Ashmore Reef</a>	EXT	In feature area
<a href="#">Daly-Reynolds Floodplain-Estuary System</a>	NT	In feature area
<a href="#">Finniss Floodplain and Fog Bay Systems</a>	NT	In feature area
<a href="#">Mitchell River System</a>	WA	In feature area
<a href="#">Moyle Floodplain and Hyland Bay System</a>	NT	In feature area
<a href="#">Port Darwin</a>	NT	In feature area
<a href="#">Prince Regent River System</a>	WA	In feature area
<a href="#">Shoal Bay - Micket Creek</a>	NT	In feature area
<a href="#">Yampi Sound Training Area</a>	WA	In feature area

### EPBC Act Referrals [\[ Resource Information \]](#)

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
<a href="#">Browse to North West Shelf Development, Indian Ocean, WA</a>	2018/8319		Approval	In feature area
<a href="#">Clarence Strait Offshore Tidal Energy Project</a>	2008/4660		Assessment	In feature area
<a href="#">Cockatoo Island Multi-User Supply Base, WA</a>	2017/7986		Assessment	In feature area
<a href="#">Darwin Pipeline Duplication (DPD) Project</a>	2022/09372		Assessment	In feature area

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
<a href="#">Darwin Pipeline Duplication DPD Project</a>	2022/9166		Completed	In feature area
<a href="#">Koolan Island Operations</a>	2022/09392		Assessment	In feature area
<a href="#">Northern Endeavour Phase 1 Decommissioning</a>	2022/09327		Approval	In feature area
<a href="#">Ocean Barramundi Expansion Project</a>	2022/09272		Assessment	In feature area
<a href="#">Project Crux Cable Lay and Operation</a>	2022/09441		Completed	In feature area
<a href="#">Tiwi H2 Project</a>	2022/09347		Assessment	In feature area
<b>Controlled action</b>				
<a href="#">275 km gas pipeline from Wadeye to existing Darwin gas pipeline</a>	2006/2930	Controlled Action	Post-Approval	In feature area
<a href="#">2-D seismic survey Scott Reef</a>	2000/125	Controlled Action	Post-Approval	In feature area
<a href="#">Andranangoo Creek &amp; Lethbridge Bay mineral sand mining</a>	2005/2155	Controlled Action	Completed	In feature area
<a href="#">Audacious Oil Field Standalone Development</a>	2001/407	Controlled Action	Completed	In feature area
<a href="#">Augmentation of the East Point Effluent Rising Main and Extension of East Point Outfall</a>	2009/5113	Controlled Action	Post-Approval	In feature area
<a href="#">Barramundi Nursery Farm</a>	2005/2378	Controlled Action	Completed	In feature area
<a href="#">Bayview, The Boulevarde, Darwin, NT</a>	2015/7466	Controlled Action	Assessment Approach	In feature area
<a href="#">Blacktip Project - Wharf Construction</a>	2007/3293	Controlled Action	Completed	In feature area
<a href="#">Bonaparte Liquified Natural Gas Project</a>	2011/6141	Controlled Action	Post-Approval	In feature area
<a href="#">Browse FLNG Development, Commonwealth Waters</a>	2013/7079	Controlled Action	Post-Approval	In feature area
<a href="#">Condensate Processing Facility, East Arm</a>	2006/2734	Controlled Action	Proposed Decision	In feature area
<a href="#">Conduct an exploration drilling campaign</a>	2010/5718	Controlled Action	Completed	In feature area

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
<b>Controlled action</b>				
<a href="#">Darwin to Moomba Gas Pipeline</a>	2001/213	Controlled Action	Completed	In feature area
<a href="#">Decommissioning of Buffalo Oil Field</a>	2003/984	Controlled Action	Post-Approval	In feature area
<a href="#">Decommissioning of Challis Oilfield</a>	2003/942	Controlled Action	Post-Approval	In feature area
<a href="#">Develop Ichthys gas-condensate field permit area W</a>	2006/2767	Controlled Action	Completed	In feature area
<a href="#">Development of Blacktip Gas Field</a>	2003/1180	Controlled Action	Post-Approval	In feature area
<a href="#">Development of Browse Basin Gas Fields (Upstream)</a>	2008/4111	Controlled Action	Completed	In feature area
<a href="#">East Arm Marine Industry Park, Darwin, NT</a>	2014/7318	Controlled Action	Completed	In feature area
<a href="#">Floating Liquefied Natural Gas facility</a>	2001/533	Controlled Action	Completed	In feature area
<a href="#">Glyde Point and Middle Arm Peninsula Infrastructure Support</a>	2001/334	Controlled Action	Completed	In feature area
<a href="#">Glyde Point Industrial Estate</a>	2001/336	Controlled Action	Completed	In feature area
<a href="#">Glyde Point Industrial Estate and Associated Infrastructure</a>	2004/1506	Controlled Action	Completed	In feature area
<a href="#">Hardwood Plantation</a>	2001/229	Controlled Action	Post-Approval	In feature area
<a href="#">Ichthys Gas Field, Offshore and onshore processing facilities and subsea pipeline</a>	2008/4208	Controlled Action	Post-Approval	In feature area
<a href="#">Iron ore mine</a>	2006/2522	Controlled Action	Post-Approval	In feature area
<a href="#">Kilimiraka Mineral Sands and Associated Infrastructure (Bathurst Island), NT</a>	2012/6587	Controlled Action	Assessment Approach	In feature area
<a href="#">Lee Point Master-planned urban development, Darwin, NT</a>	2015/7591	Controlled Action	Post-Approval	In feature area
<a href="#">Methanol Plant</a>	2001/195	Controlled Action	Completed	In feature area
<a href="#">Middle Arm Peninsula Industrial Area Development</a>	2001/339	Controlled Action	Completed	In feature area

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
<b>Controlled action</b>				
<a href="#">Montara 4, 5, and 6 Oil Production Wells, and Montara 3 Gas Re-Injection Well</a>	2002/755	Controlled Action	Post-Approval	In feature area
<a href="#">Muirhead Subdivision</a>	2010/5525	Controlled Action	Post-Approval	In feature area
<a href="#">Operation of 17 Tiger Helicopters at Robertson Barracks</a>	2004/1459	Controlled Action	Post-Approval	In feature area
<a href="#">Pluton Irvine Island Iron Ore Project</a>	2011/6064	Controlled Action	Proposed Decision	In feature area
<a href="#">Port Patterson Barramundi Sea Cage Farm</a>	2005/2149	Controlled Action	Completed	In feature area
<a href="#">Prelude Floating Liquefied Natural Gas Facility and Gas Field Development</a>	2008/4146	Controlled Action	Post-Approval	In feature area
<a href="#">PTTEP AA Floating LNG Facility</a>	2011/6025	Controlled Action	Completed	In feature area
<a href="#">Replacement of the East Point Outfall</a>	2011/6099	Controlled Action	Assessment Approach	In feature area
<a href="#">Residential subdivision of Lot 9793 (formerly Lots 9774 and 9779) Lee Point Road</a>	2005/2108	Controlled Action	Post-Approval	In feature area
<a href="#">Shipping Channel Enhancement</a>	2010/5431	Controlled Action	Completed	In feature area
<a href="#">Snake Bay Barramundi Sea Cage Farm</a>	2005/2150	Controlled Action	Completed	In feature area
<a href="#">Talisman Saber 2005 Military Exercise</a>	2004/1819	Controlled Action	Post-Approval	In feature area
<a href="#">Tassie Shoal Gas Reforming and Methanol Production Plants - NT/P48</a>	2000/108	Controlled Action	Post-Approval	In feature area
<a href="#">Tassie Shoal LNG Project</a>	2003/1067	Controlled Action	Post-Approval	In feature area
<a href="#">Torosa South Initial Appraisal Drilling</a>	2007/3500	Controlled Action	Completed	In feature area
<a href="#">Trans-territory Gas Pipeline</a>	2003/1186	Controlled Action	Completed	In feature area
<a href="#">Tropical Tidal Testing Centre, Clarence Strait, 50km NE Darwin</a>	2014/7299	Controlled Action	Guidelines Issued	In feature area
<a href="#">Wuudagu Bauxite Project</a>	2019/8606	Controlled Action	Assessment Approach	In feature area



Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
<b>Not controlled action</b>				
<a href="#">2D seismic survey, exploration permit NT/P67</a>	2004/1587	Not Controlled Action	Completed	In feature area
<a href="#">2D Seismic Survey in Permit Areas WA-318-P &amp; WA-319-P, near Cape Londonderry</a>	2004/1687	Not Controlled Action	Completed	In feature area
<a href="#">3D marine seismic survey in WA 314P and WA 315P</a>	2004/1927	Not Controlled Action	Completed	In feature area
<a href="#">Adele Trend TQ3D Seismic Survey</a>	2001/252	Not Controlled Action	Completed	In feature area
<a href="#">AEC International Hydrocarbon Well Puffin 6</a>	2000/36	Not Controlled Action	Completed	In feature area
<a href="#">Andranangoo Mine Site Aircraft Landing Area</a>	2007/3743	Not Controlled Action	Completed	In feature area
<a href="#">Aquaculture - Barramundi grow out, Yampi Sound</a>	2005/2476	Not Controlled Action	Completed	In feature area
<a href="#">Aquaculture farm</a>	2002/737	Not Controlled Action	Completed	In feature area
<a href="#">Audacious-3 oil drilling well</a>	2003/1042	Not Controlled Action	Completed	In feature area
<a href="#">Backpacker-1 Offshore Hydrocarbon Exploration Well</a>	2001/300	Not Controlled Action	Completed	In feature area
<a href="#">Barossa-1 (NT/P69), Caldita-2 (NT/P61) exploration wells</a>	2006/2793	Not Controlled Action	Completed	In feature area
<a href="#">Buffalo In-Fill Production Wells</a>	2001/475	Not Controlled Action	Completed	In feature area
<a href="#">Caldita-1 Hydrocarbon Exploration Well, NT/P61</a>	2004/1854	Not Controlled Action	Completed	In feature area
<a href="#">Channel Island Bridge Pipeline Replacement Project</a>	2020/8672	Not Controlled Action	Completed	In feature area
<a href="#">Construction and operation of Radar Infrastructure</a>	2004/1406	Not Controlled Action	Completed	In feature area
<a href="#">Controlled Source Electromagnetic 2D Survey</a>	2009/4980	Not Controlled Action	Completed	In feature area
<a href="#">Controlled Source Electromagnetic Survey</a>	2010/5434	Not Controlled Action	Completed	In feature area
<a href="#">Coot-1 hydrocarbon exploration well, Permit Area AC/L2 or AC/L3</a>	2001/296	Not Controlled Action	Completed	In feature area
<a href="#">Core Breeding and Broodstock Maturation Centre development, Point Ceylon, NT</a>	2016/7713	Not Controlled Action	Completed	In feature area

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
<b>Not controlled action</b>				
<a href="#">Cox Peninsular Remediation Project, NT</a>	2015/7587	Not Controlled Action	Completed	In feature area
<a href="#">Crowley Government Services Inc Bulk Fuel Storage Facility</a>	2021/9015	Not Controlled Action	Completed	In feature area
<a href="#">Crux-A and Crux-B appraisal wells, Petroleum Permit Area AC/P23</a>	2006/2748	Not Controlled Action	Completed	In feature area
<a href="#">Crux gas-liquids development in permit AC/P23</a>	2006/3154	Not Controlled Action	Completed	In feature area
<a href="#">Darwin Port Maintenance Dredging, Darwin Harbour, NT</a>	2017/8122	Not Controlled Action	Completed	In feature area
<a href="#">Drilling of 12 Hydrocarbon Exploration Wells, Permit Area WA-371-P</a>	2006/3005	Not Controlled Action	Completed	In feature area
<a href="#">Drilling of exploration well Audacious-1 in AC/P17</a>	2000/5	Not Controlled Action	Completed	In feature area
<a href="#">Drilling of exploration wells, Permit areas WA-301-P to WA-305-P</a>	2002/769	Not Controlled Action	Completed	In feature area
<a href="#">Drilling of Marina-1 Exploration Well</a>	2007/3586	Not Controlled Action	Completed	In feature area
<a href="#">Echuca Shoals-2 Exploration of Appraisal Well</a>	2006/3020	Not Controlled Action	Completed	In feature area
<a href="#">Exploration Drilling in AC/P17, AC/P18 and AC/P24</a>	2001/359	Not Controlled Action	Completed	In feature area
<a href="#">Exploration Well AC/P23</a>	2001/234	Not Controlled Action	Completed	In feature area
<a href="#">Improving rabbit biocontrol: releasing another strain of RHDV, sthrn two thirds of Australia</a>	2015/7522	Not Controlled Action	Completed	In feature area
<a href="#">Kaleidoscope exploration well</a>	2001/182	Not Controlled Action	Completed	In feature area
<a href="#">Kimberley Multi-commodity Exploration Programme, WA</a>	2013/6839	Not Controlled Action	Completed	In feature area
<a href="#">Koolan Island Mine - Reconstruction of seawall and capital dewatering of mine pit, 130km northwest of</a>	2016/7848	Not Controlled Action	Completed	In feature area
<a href="#">Marine Seismic Survey in WA-239-P</a>	2000/24	Not Controlled Action	Completed	In feature area

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
<b>Not controlled action</b>				
<a href="#">Marine Survey for the Australia-ASEAN Power Link AAPL</a>	2020/8714	Not Controlled Action	Completed	In feature area
<a href="#">Montara-3 Offshore Hydrocarbon Exploration Well Permit Area AC/RL3</a>	2001/489	Not Controlled Action	Completed	In feature area
<a href="#">Nexus Drilling Program NT-P66</a>	2007/3745	Not Controlled Action	Completed	In feature area
<a href="#">NT/P68 2007 Two Well Drilling Program</a>	2007/3569	Not Controlled Action	Completed	In feature area
<a href="#">P30 Hydrocarbon Exploration Well</a>	2001/293	Not Controlled Action	Completed	In feature area
<a href="#">Project Highclere Geophysical Survey</a>	2021/9023	Not Controlled Action	Completed	In feature area
<a href="#">Project Sea Dragon Stage 1 Hatchery - Gunn Point, NT</a>	2017/8092	Not Controlled Action	Completed	In feature area
<a href="#">Puffin Oil wells 7, 8 &amp; 9 development</a>	2005/2336	Not Controlled Action	Completed	In feature area
<a href="#">Residential Complex - Lots 6575 and 6576</a>	2001/163	Not Controlled Action	Completed	In feature area
<a href="#">Residential Secondary College</a>	2007/3276	Not Controlled Action	Completed	In feature area
<a href="#">Saucepan 1 Exploration Well ACP23</a>	2000/2	Not Controlled Action	Completed	In feature area
<a href="#">Skua and Swift Oilfields</a>	2006/3195	Not Controlled Action	Completed	In feature area
<a href="#">Strumbo-1 Gas Exploration Well Permit Area WA-288-P</a>	2002/884	Not Controlled Action	Completed	In feature area
<a href="#">Subdivision of Two Sites (1712 and 1713) into four Portions</a>	2006/2755	Not Controlled Action	Completed	In feature area
<a href="#">Waterfront Redevelopment</a>	2003/1256	Not Controlled Action	Completed	In feature area
<a href="#">Wickham Point Interconnect Gas Pipeline</a>	2008/4309	Not Controlled Action	Completed	In feature area
<a href="#">Woodside Geotechnical Investigation Sunrise Bank</a>	2000/13	Not Controlled Action	Completed	In feature area
<b>Not controlled action (particular manner)</b>				
<a href="#">2 (3D) Marine Seismic Surveys</a>	2009/4994	Not Controlled Action (Particular Manner)	Completed	In feature area

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
<b>Not controlled action (particular manner)</b>				
<a href="#">2D and 3D Seismic Survey</a>	2011/6197	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">2D and 3D Seismic Survey WA-405-P</a>	2008/4133	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">2D and 3D Seismic Survey WA-405-P</a>	2009/5104	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">2D Marine Seismic Survey</a>	2009/4728	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">2D marine seismic survey of Braveheart, Kurrajong, Sunshine and Crocodile</a>	2006/2917	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">2D marine seismic survey within permit area WA-318-P</a>	2007/3879	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">2D or 3D Marine Seismic Survey in Petroleum Permit Area AC/P35</a>	2009/4864	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">2D Seismic Marine Survey</a>	2001/363	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">2D Seismic survey</a>	2009/5076	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">2D seismic survey in permit areas WA-274P and WA-281P</a>	2004/1521	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">2D Seismic Survey in WA Permit Area TP/22 and Commonwealth Permit Area WA-280-P</a>	2005/2100	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">2D Seismic Survey - Petroleum Exploration Area NT/P68, Eastern Bonaparte Basin</a>	2006/2922	Not Controlled Action (Particular Manner)	Post-Approval	In feature area

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
<b>Not controlled action (particular manner)</b>				
		Manner)		
<a href="#">2 geotechnical surveys - preliminary and final</a>	2006/2886	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">3D Marine Seismic Survey</a>	2009/4681	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">3D Marine Seismic Survey</a>	2008/4437	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">3D Marine Seismic Survey, Permit AC/P 23</a>	2005/2364	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">3D marine seismic Survey - Maxima 3D MSS</a>	2006/2945	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">3D Seismic Survey</a>	2006/2729	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">3D Seismic Survey, Browse Basin, WA</a>	2009/5048	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">3D Seismic Survey, near Scott Reef, Browse Basin</a>	2005/2126	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">3D Seismic Survey, petroleum exploration permit AC/P33</a>	2006/2918	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">3D Seismic Survey (NT/P68)</a>	2006/2980	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">3D Seismic Survey (NT/P68)</a>	2008/4121	Not Controlled Action (Particular Manner)	Post-Approval	In feature area

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
<b>Not controlled action (particular manner)</b>				
<a href="#">3D seismic survey of AC/P4, AC/P17 and AC/P24</a>	2006/2857	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">3D Seismic Survey WA-406-P Bonaparte Basin</a>	2007/3904	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">AC/P37 3D Seismic Survey Ashmore Cartier</a>	2007/3774	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Acacia East Pit Cutback Mining Project,northern Kimberley, WA</a>	2013/6752	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Auralandia 3D marine seismic survey</a>	2011/5961	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Aurora MC3D Marine Seismic Survey</a>	2010/5510	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Bassett 3D Marine Seismic Survey</a>	2010/5538	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Blacktip Gas Project Yelcherr Beach Wharf Construction</a>	2007/3537	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Bonaparte 2D &amp; 3D marine seismic survey</a>	2011/5962	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Bonaparte 3D &amp; 2D Seismic Survey, in NT/P82, Timor Sea</a>	2012/6398	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Bonaparte Basin Barossa Appraisal Drilling Campaign, NT</a>	2012/6481	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Bonaparte Basin Seabed Mapping Survey</a>	2009/4951	Not Controlled Action (Particular	Post-Approval	In feature area

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
<b>Not controlled action (particular manner)</b>				
		Manner)		
<a href="#">Bonaparte Seismic and Bathymetric Survey</a>	2012/6295	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Braveheart 2D Infill Marine Seismic Survey 100km offshore</a>	2008/4442	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Braveheart 2D Marine Seismic Survey</a>	2005/2322	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Caldita 3D Marine Seismic Survey - NT/P61, NT/P69, and acreage release area NT06-5</a>	2006/3142	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Canis 3D Marine Seismic Survey</a>	2008/4492	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Cartier East and Cartier West 3D Marine Seismic Surveys</a>	2009/5230	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Caswell MC3D Marine Seismic Survey</a>	2012/6594	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Conduct an exploration drilling campaign</a>	2011/5964	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Deep Water Northwest Shelf 2D Seismic Survey</a>	2007/3260	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Dillon South-1 Exploration Well Drilling - AC/P4, Territory of Ashmore/Cartier</a>	2013/6849	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Dredging the outer shipping channels of Darwin Harbour</a>	2013/6988	Not Controlled Action (Particular Manner)	Post-Approval	In feature area

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
<b>Not controlled action (particular manner)</b>				
<a href="#">Drilling of Audacious-5 appraisal well</a>	2008/4327	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Drilling of Exploration &amp; Appraisal Wells Braveheart-1 &amp; Cornea-3</a>	2009/5160	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Drilling of two appraisal wells</a>	2011/5840	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Endurance 3D Marine Seismic Data Acquisition Survey</a>	2007/3667	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Eni Bathurst 3D Seismic Survey</a>	2011/6118	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Exploration Drilling Campaign</a>	2011/6047	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Exploration Drilling Campaign, Browse Basin, WA-341-P, AC-P36 and WA-343-P</a>	2013/6898	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Exploration Drilling in Permit Areas WA-402-P &amp; WA-403-P</a>	2010/5297	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Exploration Drilling Program - Permit areas - WA-314-P, WA-315-P, WA-398-P.</a>	2008/4064	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Fishburn2D Marine Seismic Survey</a>	2012/6659	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Floyd 3D and Chisel 3D Seismic Surveys</a>	2011/6220	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Geoscience Australia - Marine survey in Browse Basin to acquire data to assist assessment of CO2</a>	2013/6747	Not Controlled Action (Particular Manner)	Post-Approval	In feature area



Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
<b>Not controlled action (particular manner)</b>				
<a href="#">sto</a>		Manner)		
<a href="#">Gicea 3D Marine Seismic Survey</a>	2008/4389	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Gigas 2D Pilot Ocean Bottom Cable Marine Seismic Survey</a>	2007/3839	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Gold 2D Marine Seismic Survey Permit Areas WA375P and WA376P</a>	2009/4698	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Ichthys 3D Marine Seismic Survey</a>	2010/5550	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Joseph Bonaparte Gulf Seabed mapping survey</a>	2010/5517	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Kingtree &amp; Ironstone-1 Exploration Wells</a>	2011/5935	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Kraken, Lusca &amp; Asperus 3D Marine Seismic Survey</a>	2013/6730	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Malita West 3D Seismic Survey WA-402-P and WA-403-P</a>	2007/3936	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Marine Environmental Survey 2012</a>	2012/6310	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Nova 3D Seismic Survey</a>	2013/6825	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">NT/P77 3D Marine Seismic Survey</a>	2009/4683	Not Controlled Action (Particular Manner)	Post-Approval	In feature area

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
<b>Not controlled action (particular manner)</b>				
<a href="#">NT/P80 2010 2D Marine Seismic Survey</a>	2010/5487	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Octantis 3D Marine Seismic Survey, Permit Area AC/P41 off northern Western Australia</a>	2007/3369	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Offshore Exploration Drilling Campaign</a>	2011/6222	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Offshore Fibre Optic Cable Network Construction &amp; Operation, Port Hedland WA to Darwin NT</a>	2014/7223	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Offshore Gas Exploration Drilling Campaign</a>	2012/6384	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Panda NT/P76 3D Seismic Acquisition Survey Program</a>	2009/4992	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Petrel MC2D Marine Seismic Survey</a>	2010/5368	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Pilot Appraisal Well - Torosa South 1</a>	2008/3991	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Port Melville marine supply base, Melville Island</a>	2015/7510	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Removal of Potential Unexploded Ordnance within NAXA</a>	2012/6503	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Rosebud 3D Marine Seismic Survey in WA-30-R and TR/5</a>	2012/6493	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Sandalford 3D Seismic Survey</a>	2012/6261	Not Controlled Action (Particular	Post-Approval	In feature area

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
<b>Not controlled action (particular manner)</b>				
		Manner)		
<a href="#">Santos Petrel-7 Offshore Appraisal Drilling Programme (Bonaparte Basin)</a>	2011/5934	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Schild MC3D Marine Seismic Survey</a>	2012/6373	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Schild Phase 11 MC3D Marine Seismic Survey, Browse Basin</a>	2013/6894	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Scott Reef Seismic Research</a>	2006/2647	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Searcher bathymetry &amp; geochemical seismic survey, Browse Basin, Timor Sea, WA</a>	2013/6980	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Sonar and Acoustic Trials</a>	2001/345	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Songa Venus Drilling and Testing Operations</a>	2009/5122	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Songa Venus Drilling Programme, Bonaparte Basin</a>	2009/4990	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Sunshine Infill 2D and Mimosa 2D Marine Seismic Surveys</a>	2009/4699	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Thoar 3D Marine Seismic Survey</a>	2010/5668	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Tiffany 3D Seismic Survey</a>	2010/5339	Not Controlled Action (Particular Manner)	Post-Approval	In feature area

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
<b>Not controlled action (particular manner)</b>				
<a href="#">Torosa-5 Apraisal Well, WA-30-R</a>	2008/4430	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Tow West Atlas wreck from present location to boundary of EEZ</a>	2010/5652	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Tridacna 3D Ocean Bottom Cable Marine Seismic Survey</a>	2011/5959	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Ursa 3D Marine Seismic Survey</a>	2008/4634	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Vampire 2D Non Exclusive Seismic Survey, WA</a>	2010/5543	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Westralia SPAN Marine Seismic Survey, WA &amp; NT</a>	2012/6463	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Zeppelin 3D Seismic Survey</a>	2011/6148	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<b>Referral decision</b>				
<a href="#">2D Marine Seismic Survey</a>	2008/4623	Referral Decision	Completed	In feature area
<a href="#">3D Seismic Survey (NT/P68)</a>	2006/2949	Referral Decision	Completed	In feature area
<a href="#">Aurora extension MC3D Marine Seismic Survey</a>	2011/5887	Referral Decision	Completed	In feature area
<a href="#">BRSN08 3D Marine Seismic Survey</a>	2008/4582	Referral Decision	Completed	In feature area
<a href="#">Experimental Study of Behavioural and Physiological Impact on Fish of Seismic Ex</a>	2006/2625	Referral Decision	Completed	In feature area
<a href="#">Field efficacy trial of the Hisstory bait for feral cats, at Yampi Sound Defence Training Area, Kimb</a>	2017/7977	Referral Decision	Completed	In feature area
<a href="#">Kimberley Multi-commodity Exploration Program</a>	2013/6780	Referral Decision	Completed	In feature area

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
<b>Referral decision</b>				
<a href="#">Nova 3D Seismic Survey, WA 442-NT/P81, Joseph Bonaparte Gulf</a>	2013/6820	Referral Decision	Completed	In feature area
<a href="#">Phillips Petroleum Wickham Point LNG facility</a>	2001/391	Referral Decision	Completed	In feature area
<a href="#">Pilot Appraisal Well - Torosa South-1</a>	2008/3985	Referral Decision	Completed	In feature area
<a href="#">Puffin South-West Development of Oil Reserves</a>	2007/3834	Referral Decision	Completed	In feature area
<a href="#">Seismic Data Acquisition, Browse Basin</a>	2010/5475	Referral Decision	Completed	In feature area
<a href="#">Tidal Power Generation Turbine</a>	2009/5235	Referral Decision	Completed	In feature area

## 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	Buffer Status
<a href="#">Ancient coastline at 125 m depth contour</a>	North-west	In feature area
<a href="#">Ashmore Reef and Cartier Island and surrounding Commonwealth waters</a>	North-west	In feature area
<a href="#">Carbonate bank and terrace system of the Sahul Shelf</a>	North-west	In feature area
<a href="#">Carbonate bank and terrace system of the Van Diemen Rise</a>	North	In feature area
<a href="#">Continental Slope Demersal Fish Communities</a>	North-west	In feature area
<a href="#">Pinnacles of the Bonaparte Basin</a>	North	In feature area
<a href="#">Pinnacles of the Bonaparte Basin</a>	North-west	In feature area
<a href="#">Seringapatam Reef and Commonwealth waters in the Scott Reef Complex</a>	North-west	In feature area
<a href="#">Shelf break and slope of the Arafura Shelf</a>	North	In feature area

## Biologically Important Areas

Scientific Name	Behaviour	Presence	Buffer Status
<b>Dolphins</b>			
<a href="#">Orcaella heinsohni</a>			
Australian Snubfin Dolphin [81322]	Breeding	Known to occur	In feature area

Scientific Name	Behaviour	Presence	Buffer Status
<a href="#">Orcaella heinsohni</a> Australian Snubfin Dolphin [81322]	Calving	Known to occur	In feature area
<a href="#">Orcaella heinsohni</a> Australian Snubfin Dolphin [81322]	Foraging	Known to occur	In feature area
<a href="#">Orcaella heinsohni</a> Australian Snubfin Dolphin [81322]	Foraging (high density prey)	Known to occur	In feature area
<a href="#">Orcaella heinsohni</a> Australian Snubfin Dolphin [81322]	Resting	Known to occur	In feature area
<a href="#">Sousa chinensis</a> Indo-Pacific Humpback Dolphin [50]	Breeding	Likely to occur	In feature area
<a href="#">Sousa chinensis</a> Indo-Pacific Humpback Dolphin [50]	Breeding	Known to occur	In feature area
<a href="#">Sousa chinensis</a> Indo-Pacific Humpback Dolphin [50]	Calving	Likely to occur	In feature area
<a href="#">Sousa chinensis</a> Indo-Pacific Humpback Dolphin [50]	Calving	Known to occur	In feature area
<a href="#">Sousa chinensis</a> Indo-Pacific Humpback Dolphin [50]	Foraging	Likely to occur	In feature area
<a href="#">Sousa chinensis</a> Indo-Pacific Humpback Dolphin [50]	Foraging	Known to occur	In feature area
<a href="#">Sousa chinensis</a> Indo-Pacific Humpback Dolphin [50]	Foraging (high density prey)	Likely to occur	In feature area
<a href="#">Sousa chinensis</a> Indo-Pacific Humpback Dolphin [50]	Foraging (high density prey)	Known to occur	In feature area
<a href="#">Sousa chinensis</a> Indo-Pacific Humpback Dolphin [50]	Significant habitat	Known to occur	In feature area
<a href="#">Sousa chinensis</a> Indo-Pacific Humpback Dolphin [50]	Significant habitat - unknown behaviour	Likely to occur	In feature area

Scientific Name	Behaviour	Presence	Buffer Status
<a href="#">Tursiops aduncus</a> Indo-Pacific/Spotted Bottlenose Dolphin [68418]	Breeding	Known to occur	In feature area
<a href="#">Tursiops aduncus</a> Indo-Pacific/Spotted Bottlenose Dolphin [68418]	Calving	Known to occur	In feature area
<a href="#">Tursiops aduncus</a> Indo-Pacific/Spotted Bottlenose Dolphin [68418]	Foraging	Known to occur	In feature area
<b>Dugong</b>			
<a href="#">Dugong dugon</a> Dugong [28]	Breeding	Known to occur	In feature area
<a href="#">Dugong dugon</a> Dugong [28]	Calving	Known to occur	In feature area
<a href="#">Dugong dugon</a> Dugong [28]	Foraging	Known to occur	In feature area
<a href="#">Dugong dugon</a> Dugong [28]	Foraging	Likely to occur	In feature area
<a href="#">Dugong dugon</a> Dugong [28]	Foraging (high density seagrass beds)	Known to occur	In feature area
<a href="#">Dugong dugon</a> Dugong [28]	Nursing	Known to occur	In feature area
<b>Marine Turtles</b>			
<a href="#">Caretta caretta</a> Loggerhead Turtle [1763]	Foraging	Known to occur	In feature area
<a href="#">Chelonia mydas</a> Green Turtle [1765]	Foraging	Likely to occur	In feature area
<a href="#">Chelonia mydas</a> Green Turtle [1765]	Foraging	Known to occur	In feature area
<a href="#">Chelonia mydas</a> Green Turtle [1765]	Internesting	Likely to occur	In feature area
<a href="#">Chelonia mydas</a> Green Turtle [1765]	Internesting buffer	Likely to occur	In feature area

Scientific Name	Behaviour	Presence	Buffer Status
<a href="#">Chelonia mydas</a> Green Turtle [1765]	Internesting buffer	Known to occur	In feature area
<a href="#">Chelonia mydas</a> Green Turtle [1765]	Mating	Likely to occur	In feature area
<a href="#">Chelonia mydas</a> Green Turtle [1765]	Nesting	Likely to occur	In feature area
<a href="#">Chelonia mydas</a> Green Turtle [1765]	Nesting	Known to occur	In feature area
<a href="#">Eretmochelys imbricata</a> Hawksbill Turtle [1766]	Foraging	Likely to occur	In feature area
<a href="#">Eretmochelys imbricata</a> Hawksbill Turtle [1766]	Internesting buffer	Known to occur	In feature area
<a href="#">Eretmochelys imbricata</a> Hawksbill Turtle [1766]	Internesting buffer	Likely to occur	In feature area
<a href="#">Eretmochelys imbricata</a> Hawksbill Turtle [1766]	Nesting	Likely to occur	In feature area
<a href="#">Eretmochelys imbricata</a> Hawksbill Turtle [1766]	Nesting	Known to occur	In feature area
<a href="#">Lepidochelys olivacea</a> Olive Ridley Turtle [1767]	Foraging	Likely to occur	In feature area
<a href="#">Lepidochelys olivacea</a> Olive Ridley Turtle [1767]	Foraging	Known to occur	In feature area
<a href="#">Lepidochelys olivacea</a> Olive Ridley Turtle [1767]	Internesting	Likely to occur	In feature area
<a href="#">Natator depressus</a> Flatback Turtle [59257]	Foraging	Known to occur	In feature area
<a href="#">Natator depressus</a> Flatback Turtle [59257]	Internesting	Likely to occur	In feature area
<a href="#">Natator depressus</a> Flatback Turtle [59257]	Internesting buffer	Known to occur	In feature area

River shark



Scientific Name	Behaviour	Presence	Buffer Status
<a href="#">Pristis clavata</a> Dwarf Sawfish [68447]	Foraging	Known to occur	In feature area
<a href="#">Pristis zijsron</a> Green Sawfish [68442]	Foraging	Known to occur	In feature area
<b>Seabirds</b>			
<a href="#">Ardenna pacifica</a> Wedge-tailed Shearwater [84292]	Breeding	Known to occur	In feature area
<a href="#">Fregata ariel</a> Lesser Frigatebird [1012]	Breeding	Known to occur	In feature area
<a href="#">Fregata minor</a> Greater Frigatebird [1013]	Breeding	Known to occur	In feature area
<a href="#">Phaethon lepturus</a> White-tailed Tropicbird [1014]	Breeding	Known to occur	In feature area
<a href="#">Sterna dougallii</a> Roseate Tern [817]	Breeding	Known to occur	In feature area
<a href="#">Sternula albifrons sinensis</a> Little Tern [82850]	Breeding	Known to occur	In feature area
<a href="#">Sternula albifrons sinensis</a> Little Tern [82850]	Resting	Known to occur	In feature area
<a href="#">Sula leucogaster</a> Brown Booby [1022]	Breeding	Known to occur	In feature area
<a href="#">Sula sula</a> Red-footed Booby [1023]	Breeding	Known to occur	In feature area
<a href="#">Thalasseus bengalensis</a> Lesser Crested Tern [66546]	Breeding	Known to occur	In feature area
<a href="#">Thalasseus bergii</a> Crested Tern [83000]	Breeding (high numbers)	Known to occur	In feature area

## Sharks

Scientific Name	Behaviour	Presence	Buffer Status
<a href="#">Rhincodon typus</a> Whale Shark [66680]	Foraging	Known to occur	In feature area
<b>Whales</b>			
<a href="#">Balaenoptera musculus brevicauda</a> Pygmy Blue Whale [81317]	Distribution	Known to occur	In feature area
<a href="#">Balaenoptera musculus brevicauda</a> Pygmy Blue Whale [81317]	Foraging	Known to occur	In feature area
<a href="#">Balaenoptera musculus brevicauda</a> Pygmy Blue Whale [81317]	Migration	Known to occur	In feature area
<a href="#">Megaptera novaeangliae</a> Humpback Whale [38]	Calving	Known to occur	In feature area
<a href="#">Megaptera novaeangliae</a> Humpback Whale [38]	Migration	Known to occur	In feature area
<a href="#">Megaptera novaeangliae</a> Humpback Whale [38]	Nursing	Known to occur	In feature area
<a href="#">Megaptera novaeangliae</a> Humpback Whale [38]	Resting	Known to occur	In feature area

# Caveat

## 1 PURPOSE

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

The report contains the mapped locations of:

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

## 2 DISCLAIMER

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

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

## 3 DATA SOURCES

Threatened ecological communities

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

Threatened, migratory and marine species

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

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

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

## 4 LIMITATIONS

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

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

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

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

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

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

# Acknowledgements

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

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

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

Please feel free to provide feedback via the [Contact us](#) page.

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# 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.

POLYGON 2

[Summary](#)

[Details](#)

[Matters of NES](#)

[Other Matters Protected by the EPBC Act](#)

[Extra Information](#)

[Caveat](#)

[Acknowledgements](#)

Report created: 24-Jul-2023

# 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 [Administrative Guidelines on Significance](#).

<a href="#">World Heritage Properties:</a>	None
<a href="#">National Heritage Places:</a>	1
<a href="#">Wetlands of International Importance (Ramsar)</a>	2
<a href="#">Great Barrier Reef Marine Park:</a>	None
<a href="#">Commonwealth Marine Area:</a>	3
<a href="#">Listed Threatened Ecological Communities:</a>	1
<a href="#">Listed Threatened Species:</a>	50
<a href="#">Listed Migratory Species:</a>	83

## 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 [permit](#) 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.

<a href="#">Commonwealth Lands:</a>	47
<a href="#">Commonwealth Heritage Places:</a>	2
<a href="#">Listed Marine Species:</a>	140
<a href="#">Whales and Other Cetaceans:</a>	30
<a href="#">Critical Habitats:</a>	None
<a href="#">Commonwealth Reserves Terrestrial:</a>	None
<a href="#">Australian Marine Parks:</a>	11
<a href="#">Habitat Critical to the Survival of Marine Turtles:</a>	3

## Extra Information

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

<a href="#">State and Territory Reserves:</a>	35
<a href="#">Regional Forest Agreements:</a>	None
<a href="#">Nationally Important Wetlands:</a>	7
<a href="#">EPBC Act Referrals:</a>	87
<a href="#">Key Ecological Features (Marine):</a>	6
<a href="#">Biologically Important Areas:</a>	62
<a href="#">Bioregional Assessments:</a>	None
<a href="#">Geological and Bioregional Assessments:</a>	None

# Details

## Matters of National Environmental Significance

### National Heritage Places [\[ Resource Information \]](#)

Name	State	Legal Status	Buffer Status
Natural			
<a href="#">The West Kimberley</a>	WA	Listed place	In feature area

### Wetlands of International Importance (Ramsar Wetlands) [\[ Resource Information \]](#)

Ramsar Site Name	Proximity	Buffer Status
<a href="#">Eighty-mile beach</a>	Within Ramsar site	In feature area
<a href="#">Roebuck bay</a>	Within Ramsar site	In feature area

### 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	Buffer Status
EEZ and Territorial Sea	In feature area
Extended Continental Shelf	In feature area
Extended Continental Shelf	In feature area

### 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.

Status of Vulnerable, Disallowed and Ineligible are not MNES under the EPBC Act.

Community Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Monsoon vine thickets on the coastal sand dunes of Dampier Peninsula</a>	Endangered	Community likely to occur within area	In feature area

### 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	Buffer Status
BIRD			
<a href="#">Anous tenuirostris melanops</a>	Vulnerable	Foraging, feeding or related behaviour known to occur within area	In feature area
Australian Lesser Noddy [26000]			



Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Calidris canutus</a> Red Knot, Knot [855]	Endangered	Species or species habitat known to occur within area	In feature area
<a href="#">Calidris ferruginea</a> Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area	In feature area
<a href="#">Calidris tenuirostris</a> Great Knot [862]	Critically Endangered	Roosting known to occur within area	In feature area
<a href="#">Charadrius leschenaultii</a> Greater Sand Plover, Large Sand Plover [877]	Vulnerable	Species or species habitat known to occur within area	In feature area
<a href="#">Charadrius mongolus</a> Lesser Sand Plover, Mongolian Plover [879]	Endangered	Roosting known to occur within area	In feature area
<a href="#">Erythrotriorchis radiatus</a> Red Goshawk [942]	Endangered	Species or species habitat may occur within area	In feature area
<a href="#">Erythrura gouldiae</a> Gouldian Finch [413]	Endangered	Species or species habitat known to occur within area	In feature area
<a href="#">Falco hypoleucos</a> Grey Falcon [929]	Vulnerable	Species or species habitat known to occur within area	In feature area
<a href="#">Limosa lapponica menzbieri</a> Northern Siberian Bar-tailed Godwit, Russkoye Bar-tailed Godwit [86432]	Critically Endangered	Species or species habitat known to occur within area	In feature area
<a href="#">Macronectes giganteus</a> Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area	In feature area
<a href="#">Numenius madagascariensis</a> Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat known to occur within area	In feature area
<a href="#">Papasula abbotti</a> Abbott's Booby [59297]	Endangered	Species or species habitat may occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Pezoporus occidentalis</a> Night Parrot [59350]	Endangered	Species or species habitat may occur within area	In feature area
<a href="#">Phaethon lepturus fulvus</a> Christmas Island White-tailed Tropicbird, Golden Bosunbird [26021]	Endangered	Species or species habitat may occur within area	In feature area
<a href="#">Polytelis alexandrae</a> Princess Parrot, Alexandra's Parrot [758]	Vulnerable	Species or species habitat may occur within area	In feature area
<a href="#">Rostratula australis</a> Australian Painted Snipe [77037]	Endangered	Species or species habitat known to occur within area	In feature area
<a href="#">Sternula nereis nereis</a> Australian Fairy Tern [82950]	Vulnerable	Species or species habitat may occur within area	In feature area
<a href="#">Tyto novaehollandiae kimberli</a> Masked Owl (northern) [26048]	Vulnerable	Species or species habitat may occur within area	In feature area
<b>FISH</b>			
<a href="#">Thunnus maccoyii</a> Southern Bluefin Tuna [69402]	Conservation Dependent	Breeding known to occur within area	In feature area
<b>MAMMAL</b>			
<a href="#">Balaenoptera borealis</a> Sei Whale [34]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In feature area
<a href="#">Balaenoptera musculus</a> Blue Whale [36]	Endangered	Migration route known to occur within area	In feature area
<a href="#">Balaenoptera physalus</a> Fin Whale [37]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Dasyurus hallucatus</a> Northern Quoll, Digul [Gogo-Yimidir], Wijingadda [Dambimangari], Wiminji [Martu] [331]	Endangered	Species or species habitat likely to occur within area	In feature area
<a href="#">Macroderma gigas</a> Ghost Bat [174]	Vulnerable	Species or species habitat likely to occur within area	In feature area
<a href="#">Macrotis lagotis</a> Greater Bilby [282]	Vulnerable	Species or species habitat known to occur within area	In feature area
<a href="#">Petrogale concinna monastria</a> Nabarlek (Kimberley) [87607]	Endangered	Species or species habitat known to occur within area	In feature area
<a href="#">Rhinonicteris aurantia (Pilbara form)</a> Pilbara Leaf-nosed Bat [82790]	Vulnerable	Species or species habitat may occur within area	In feature area
<a href="#">Saccolaimus saccolaimus nudicluniatus</a> Bare-rumped Sheath-tailed Bat, Bare- rumped Sheath-tail Bat [66889]	Vulnerable	Species or species habitat likely to occur within area	In feature area
<a href="#">Trichosurus vulpecula arnhemensis</a> Northern Brushtail Possum [83091]	Vulnerable	Species or species habitat known to occur within area	In feature area
<a href="#">Xeromys myoides</a> Water Mouse, False Water Rat, Yirrkoo [66]	Vulnerable	Species or species habitat may occur within area	In feature area
<b>PLANT</b>			
<a href="#">Seringia exastia</a> Fringed Fire-bush [88920]	Critically Endangered	Species or species habitat known to occur within area	In feature area
<b>REPTILE</b>			
<a href="#">Aipysurus apraefrontalis</a> Short-nosed Seasnake [1115]	Critically Endangered	Species or species habitat likely to occur within area	In feature area
<a href="#">Aipysurus foliosquama</a> Leaf-scaled Seasnake [1118]	Critically Endangered	Species or species habitat known to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Caretta caretta</a> Loggerhead Turtle [1763]	Endangered	Foraging, feeding or related behaviour known to occur within area	In feature area
<a href="#">Chelonia mydas</a> Green Turtle [1765]	Vulnerable	Breeding known to occur within area	In feature area
<a href="#">Dermochelys coriacea</a> Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Breeding likely to occur within area	In feature area
<a href="#">Eretmochelys imbricata</a> Hawksbill Turtle [1766]	Vulnerable	Foraging, feeding or related behaviour known to occur within area	In feature area
<a href="#">Lepidochelys olivacea</a> Olive Ridley Turtle, Pacific Ridley Turtle [1767]	Endangered	Congregation or aggregation known to occur within area	In feature area
<a href="#">Liasis olivaceus barroni</a> Olive Python (Pilbara subspecies) [66699]	Vulnerable	Species or species habitat may occur within area	In feature area
<a href="#">Liopholis kintorei</a> Great Desert Skink, Tjakura, Warrarna, Mulyamiji [83160]	Vulnerable	Species or species habitat may occur within area	In feature area
<a href="#">Natator depressus</a> Flatback Turtle [59257]	Vulnerable	Breeding known to occur within area	In feature area
<b>SHARK</b>			
<a href="#">Carcharias taurus (west coast population)</a> Grey Nurse Shark (west coast population) [68752]	Vulnerable	Species or species habitat likely to occur within area	In feature area
<a href="#">Carcharodon carcharias</a> White Shark, Great White Shark [64470]	Vulnerable	Species or species habitat may occur within area	In feature area
<a href="#">Glyphis garricki</a> Northern River Shark, New Guinea River Shark [82454]	Endangered	Breeding likely to occur within area	In feature area
<a href="#">Pristis clavata</a> Dwarf Sawfish, Queensland Sawfish [68447]	Vulnerable	Breeding known to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Pristis pristis</a> Freshwater Sawfish, Largetooth Sawfish, River Sawfish, Leichhardt's Sawfish, Northern Sawfish [60756]	Vulnerable	Species or species habitat known to occur within area	In feature area
<a href="#">Pristis zijsron</a> Green Sawfish, Dindagubba, Narrowsnout Sawfish [68442]	Vulnerable	Breeding known to occur within area	In feature area
<a href="#">Rhincodon typus</a> Whale Shark [66680]	Vulnerable	Foraging, feeding or related behaviour known to occur within area	In feature area
<a href="#">Sphyrna lewini</a> Scalloped Hammerhead [85267]	Conservation Dependent	Species or species habitat known to occur within area	In feature area

### Listed Migratory Species

[ [Resource Information](#) ]

Scientific Name	Threatened Category	Presence Text	Buffer Status
<b>Migratory Marine Birds</b>			
<a href="#">Anous stolidus</a> Common Noddy [825]		Species or species habitat likely to occur within area	In feature area
<a href="#">Apus pacificus</a> Fork-tailed Swift [678]		Species or species habitat likely to occur within area	In feature area
<a href="#">Calonectris leucomelas</a> Streaked Shearwater [1077]		Species or species habitat known to occur within area	In feature area
<a href="#">Fregata ariel</a> Lesser Frigatebird, Least Frigatebird [1012]		Breeding known to occur within area	In feature area
<a href="#">Fregata minor</a> Great Frigatebird, Greater Frigatebird [1013]		Species or species habitat known to occur within area	In feature area
<a href="#">Hydroprogne caspia</a> Caspian Tern [808]		Breeding known to occur within area	In feature area
<a href="#">Macronectes giganteus</a> Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Onychoprion anaethetus</a> Bridled Tern [82845]		Breeding known to occur within area	In feature area
<a href="#">Phaethon lepturus</a> White-tailed Tropicbird [1014]		Breeding known to occur within area	In feature area
<a href="#">Phaethon rubricauda</a> Red-tailed Tropicbird [994]		Breeding known to occur within area	In feature area
<a href="#">Sterna dougallii</a> Roseate Tern [817]		Breeding known to occur within area	In feature area
<a href="#">Sternula albifrons</a> Little Tern [82849]		Breeding known to occur within area	In feature area
<a href="#">Sula dactylatra</a> Masked Booby [1021]		Breeding known to occur within area	In feature area
<a href="#">Sula leucogaster</a> Brown Booby [1022]		Breeding known to occur within area	In feature area
<a href="#">Sula sula</a> Red-footed Booby [1023]		Breeding known to occur within area	In feature area
<b>Migratory Marine Species</b>			
<a href="#">Anoxypristis cuspidata</a> Narrow Sawfish, Knifetooth Sawfish [68448]		Species or species habitat known to occur within area	In feature area
<a href="#">Balaenoptera borealis</a> Sei Whale [34]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In feature area
<a href="#">Balaenoptera edeni</a> Bryde's Whale [35]		Species or species habitat likely to occur within area	In feature area
<a href="#">Balaenoptera musculus</a> Blue Whale [36]	Endangered	Migration route known to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Balaenoptera physalus</a> Fin Whale [37]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In feature area
<a href="#">Carcharhinus longimanus</a> Oceanic Whitetip Shark [84108]		Species or species habitat likely to occur within area	In feature area
<a href="#">Carcharodon carcharias</a> White Shark, Great White Shark [64470]	Vulnerable	Species or species habitat may occur within area	In feature area
<a href="#">Caretta caretta</a> Loggerhead Turtle [1763]	Endangered	Foraging, feeding or related behaviour known to occur within area	In feature area
<a href="#">Chelonia mydas</a> Green Turtle [1765]	Vulnerable	Breeding known to occur within area	In feature area
<a href="#">Crocodylus porosus</a> Salt-water Crocodile, Estuarine Crocodile [1774]		Species or species habitat likely to occur within area	In feature area
<a href="#">Dermochelys coriacea</a> Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Breeding likely to occur within area	In feature area
<a href="#">Dugong dugon</a> Dugong [28]		Foraging, feeding or related behaviour known to occur within area	In feature area
<a href="#">Eretmochelys imbricata</a> Hawksbill Turtle [1766]	Vulnerable	Foraging, feeding or related behaviour known to occur within area	In feature area
<a href="#">Isurus oxyrinchus</a> Shortfin Mako, Mako Shark [79073]		Species or species habitat likely to occur within area	In feature area
<a href="#">Isurus paucus</a> Longfin Mako [82947]		Species or species habitat likely to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Lepidochelys olivacea</a> Olive Ridley Turtle, Pacific Ridley Turtle [1767]	Endangered	Congregation or aggregation known to occur within area	In feature area
<a href="#">Megaptera novaeangliae</a> Humpback Whale [38]		Breeding known to occur within area	In feature area
<a href="#">Mobula alfredi as Manta alfredi</a> Reef Manta Ray, Coastal Manta Ray [90033]		Species or species habitat known to occur within area	In feature area
<a href="#">Mobula birostris as Manta birostris</a> Giant Manta Ray [90034]		Species or species habitat likely to occur within area	In feature area
<a href="#">Natator depressus</a> Flatback Turtle [59257]	Vulnerable	Breeding known to occur within area	In feature area
<a href="#">Orcaella heinsohni</a> Australian Snubfin Dolphin [81322]		Breeding known to occur within area	In feature area
<a href="#">Orcinus orca</a> Killer Whale, Orca [46]		Species or species habitat may occur within area	In feature area
<a href="#">Physeter macrocephalus</a> Sperm Whale [59]		Species or species habitat may occur within area	In feature area
<a href="#">Pristis clavata</a> Dwarf Sawfish, Queensland Sawfish [68447]	Vulnerable	Breeding known to occur within area	In feature area
<a href="#">Pristis pristis</a> Freshwater Sawfish, Largetooth Sawfish, River Sawfish, Leichhardt's Sawfish, Northern Sawfish [60756]	Vulnerable	Species or species habitat known to occur within area	In feature area
<a href="#">Pristis zijsron</a> Green Sawfish, Dindagubba, Narrowsnout Sawfish [68442]	Vulnerable	Breeding known to occur within area	In feature area
<a href="#">Rhincodon typus</a> Whale Shark [66680]	Vulnerable	Foraging, feeding or related behaviour known to occur within area	In feature area



Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Sousa sahalensis as Sousa chinensis</a> Australian Humpback Dolphin [87942]		Breeding known to occur within area	In feature area
<a href="#">Tursiops aduncus (Arafura/Timor Sea populations)</a> Spotted Bottlenose Dolphin (Arafura/Timor Sea populations) [78900]		Species or species habitat known to occur within area	In feature area
<b>Migratory Terrestrial Species</b>			
<a href="#">Cecropis daurica</a> Red-rumped Swallow [80610]		Species or species habitat known to occur within area	In feature area
<a href="#">Cuculus optatus</a> Oriental Cuckoo, Horsfield's Cuckoo [86651]		Species or species habitat known to occur within area	In feature area
<a href="#">Hirundo rustica</a> Barn Swallow [662]		Species or species habitat known to occur within area	In feature area
<a href="#">Motacilla cinerea</a> Grey Wagtail [642]		Species or species habitat known to occur within area	In feature area
<a href="#">Motacilla flava</a> Yellow Wagtail [644]		Species or species habitat known to occur within area	In feature area
<b>Migratory Wetlands Species</b>			
<a href="#">Actitis hypoleucos</a> Common Sandpiper [59309]		Species or species habitat known to occur within area	In feature area
<a href="#">Arenaria interpres</a> Ruddy Turnstone [872]		Roosting known to occur within area	In feature area
<a href="#">Calidris acuminata</a> Sharp-tailed Sandpiper [874]		Roosting known to occur within area	In feature area
<a href="#">Calidris alba</a> Sanderling [875]		Roosting known to occur within area	In feature area
<a href="#">Calidris canutus</a> Red Knot, Knot [855]	Endangered	Species or species habitat known to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Calidris ferruginea</a> Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area	In feature area
<a href="#">Calidris melanotos</a> Pectoral Sandpiper [858]		Species or species habitat known to occur within area	In feature area
<a href="#">Calidris ruficollis</a> Red-necked Stint [860]		Roosting known to occur within area	In feature area
<a href="#">Calidris tenuirostris</a> Great Knot [862]	Critically Endangered	Roosting known to occur within area	In feature area
<a href="#">Charadrius bicinctus</a> Double-banded Plover [895]		Roosting known to occur within area	In feature area
<a href="#">Charadrius leschenaultii</a> Greater Sand Plover, Large Sand Plover [877]	Vulnerable	Species or species habitat known to occur within area	In feature area
<a href="#">Charadrius mongolus</a> Lesser Sand Plover, Mongolian Plover [879]	Endangered	Roosting known to occur within area	In feature area
<a href="#">Charadrius veredus</a> Oriental Plover, Oriental Dotterel [882]		Roosting known to occur within area	In feature area
<a href="#">Gallinago megala</a> Swinhoe's Snipe [864]		Roosting likely to occur within area	In feature area
<a href="#">Gallinago stenura</a> Pin-tailed Snipe [841]		Roosting likely to occur within area	In feature area
<a href="#">Glareola maldivarum</a> Oriental Pratincole [840]		Roosting known to occur within area	In feature area
<a href="#">Limicola falcinellus</a> Broad-billed Sandpiper [842]		Roosting known to occur within area	In feature area
<a href="#">Limnodromus semipalmatus</a> Asian Dowitcher [843]		Species or species habitat known to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Limosa lapponica</a> Bar-tailed Godwit [844]		Species or species habitat known to occur within area	In feature area
<a href="#">Limosa limosa</a> Black-tailed Godwit [845]		Roosting known to occur within area	In feature area
<a href="#">Numenius madagascariensis</a> Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat known to occur within area	In feature area
<a href="#">Numenius minutus</a> Little Curlew, Little Whimbrel [848]		Roosting known to occur within area	In feature area
<a href="#">Numenius phaeopus</a> Whimbrel [849]		Roosting known to occur within area	In feature area
<a href="#">Pandion haliaetus</a> Osprey [952]		Breeding known to occur within area	In feature area
<a href="#">Philomachus pugnax</a> Ruff (Reeve) [850]		Roosting known to occur within area	In feature area
<a href="#">Pluvialis fulva</a> Pacific Golden Plover [25545]		Roosting known to occur within area	In feature area
<a href="#">Pluvialis squatarola</a> Grey Plover [865]		Roosting known to occur within area	In feature area
<a href="#">Thalasseus bergii</a> Greater Crested Tern [83000]		Breeding known to occur within area	In feature area
<a href="#">Tringa brevipes</a> Grey-tailed Tattler [851]		Roosting known to occur within area	In feature area
<a href="#">Tringa glareola</a> Wood Sandpiper [829]		Roosting known to occur within area	In feature area
<a href="#">Tringa nebularia</a> Common Greenshank, Greenshank [832]		Species or species habitat known to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Tringa stagnatilis</a> Marsh Sandpiper, Little Greenshank [833]		Roosting known to occur within area	In feature area
<a href="#">Tringa totanus</a> Common Redshank, Redshank [835]		Roosting known to occur within area	In feature area
<a href="#">Xenus cinereus</a> Terek Sandpiper [59300]		Roosting known to occur within area	In feature area

## Other Matters Protected by the EPBC Act

### Commonwealth Lands [\[ Resource Information \]](#)

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

Commonwealth Land Name	State	Buffer Status
<b>Defence</b>		
Defence - BROOME TRAINING DEPOT [50141]	WA	In feature area
<b>Unknown</b>		
Commonwealth Land - [51067]	WA	In feature area
Commonwealth Land - [51068]	WA	In feature area
Commonwealth Land - [51073]	WA	In feature area
Commonwealth Land - [51088]	WA	In feature area
Commonwealth Land - [51081]	WA	In feature area
Commonwealth Land - [51083]	WA	In feature area
Commonwealth Land - [51080]	WA	In feature area
Commonwealth Land - [52245]	WA	In feature area
Commonwealth Land - [51070]	WA	In feature area
Commonwealth Land - [51819]	WA	In feature area
Commonwealth Land - [51818]	WA	In feature area
Commonwealth Land - [51815]	WA	In feature area
Commonwealth Land - [51814]	WA	In feature area
Commonwealth Land - [51817]	WA	In feature area

Commonwealth Land Name	State	Buffer Status
Commonwealth Land - [51816]	WA	In feature area
Commonwealth Land - [51811]	WA	In feature area
Commonwealth Land - [51810]	WA	In feature area
Commonwealth Land - [51076]	WA	In feature area
Commonwealth Land - [51075]	WA	In feature area
Commonwealth Land - [51808]	WA	In feature area
Commonwealth Land - [51078]	WA	In feature area
Commonwealth Land - [51079]	WA	In feature area
Commonwealth Land - [51074]	WA	In feature area
Commonwealth Land - [51807]	WA	In feature area
Commonwealth Land - [51806]	WA	In feature area
Commonwealth Land - [51803]	WA	In feature area
Commonwealth Land - [51809]	WA	In feature area
Commonwealth Land - [51813]	WA	In feature area
Commonwealth Land - [51077]	WA	In feature area
Commonwealth Land - [51812]	WA	In feature area
Commonwealth Land - [51069]	WA	In feature area
Commonwealth Land - [51082]	WA	In feature area
Commonwealth Land - [51072]	WA	In feature area
Commonwealth Land - [51965]	WA	In feature area
Commonwealth Land - [51966]	WA	In feature area
Commonwealth Land - [51071]	WA	In feature area
Commonwealth Land - [51804]	WA	In feature area
Commonwealth Land - [51805]	WA	In feature area
Commonwealth Land - [51824]	WA	In feature area
Commonwealth Land - [51823]	WA	In feature area
Commonwealth Land - [51822]	WA	In feature area

Commonwealth Land Name	State	Buffer Status
Commonwealth Land - [51431]	WA	In feature area
Commonwealth Land - [51826]	WA	In feature area
Commonwealth Land - [51825]	WA	In feature area
Commonwealth Land - [51821]	WA	In feature area
Commonwealth Land - [51820]	WA	In feature area

### Commonwealth Heritage Places [ [Resource Information](#) ]

Name	State	Status	Buffer Status
Natural			
<a href="#">Mermaid Reef - Rowley Shoals</a>	WA	Listed place	In feature area
<a href="#">Scott Reef and Surrounds - Commonwealth Area</a>	EXT	Listed place	In feature area

### Listed Marine Species [ [Resource Information](#) ]

Scientific Name	Threatened Category	Presence Text	Buffer Status
Bird			
<a href="#">Actitis hypoleucos</a> Common Sandpiper [59309]		Species or species habitat known to occur within area	In feature area
<a href="#">Anous stolidus</a> Common Noddy [825]		Species or species habitat likely to occur within area	In feature area
<a href="#">Anous tenuirostris melanops</a> Australian Lesser Noddy [26000]	Vulnerable	Foraging, feeding or related behaviour known to occur within area	In feature area
<a href="#">Anseranas semipalmata</a> Magpie Goose [978]		Species or species habitat may occur within area overfly marine area	In feature area
<a href="#">Apus pacificus</a> Fork-tailed Swift [678]		Species or species habitat likely to occur within area overfly marine area	In feature area
<a href="#">Arenaria interpres</a> Ruddy Turnstone [872]		Roosting known to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Bubulcus ibis as Ardea ibis</a> Cattle Egret [66521]		Species or species habitat may occur within area overfly marine area	In feature area
<a href="#">Calidris acuminata</a> Sharp-tailed Sandpiper [874]		Roosting known to occur within area	In feature area
<a href="#">Calidris alba</a> Sanderling [875]		Roosting known to occur within area	In feature area
<a href="#">Calidris canutus</a> Red Knot, Knot [855]	Endangered	Species or species habitat known to occur within area overfly marine area	In feature area
<a href="#">Calidris ferruginea</a> Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area overfly marine area	In feature area
<a href="#">Calidris melanotos</a> Pectoral Sandpiper [858]		Species or species habitat known to occur within area overfly marine area	In feature area
<a href="#">Calidris ruficollis</a> Red-necked Stint [860]		Roosting known to occur within area overfly marine area	In feature area
<a href="#">Calidris tenuirostris</a> Great Knot [862]	Critically Endangered	Roosting known to occur within area overfly marine area	In feature area
<a href="#">Calonectris leucomelas</a> Streaked Shearwater [1077]		Species or species habitat known to occur within area	In feature area
<a href="#">Cecropis daurica as Hirundo daurica</a> Red-rumped Swallow [80610]		Species or species habitat known to occur within area overfly marine area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Chalcites osculans as Chrysococcyx osculans</a> Black-eared Cuckoo [83425]		Species or species habitat known to occur within area overfly marine area	In feature area
<a href="#">Charadrius bicinctus</a> Double-banded Plover [895]		Roosting known to occur within area overfly marine area	In feature area
<a href="#">Charadrius leschenaultii</a> Greater Sand Plover, Large Sand Plover [877]	Vulnerable	Species or species habitat known to occur within area	In feature area
<a href="#">Charadrius mongolus</a> Lesser Sand Plover, Mongolian Plover [879]	Endangered	Roosting known to occur within area	In feature area
<a href="#">Charadrius ruficapillus</a> Red-capped Plover [881]		Roosting known to occur within area overfly marine area	In feature area
<a href="#">Charadrius veredus</a> Oriental Plover, Oriental Dotterel [882]		Roosting known to occur within area overfly marine area	In feature area
<a href="#">Chroicocephalus novaehollandiae as Larus novaehollandiae</a> Silver Gull [82326]		Breeding known to occur within area	In feature area
<a href="#">Fregata ariel</a> Lesser Frigatebird, Least Frigatebird [1012]		Breeding known to occur within area	In feature area
<a href="#">Fregata minor</a> Great Frigatebird, Greater Frigatebird [1013]		Species or species habitat known to occur within area	In feature area
<a href="#">Gallinago megala</a> Swinhoe's Snipe [864]		Roosting likely to occur within area overfly marine area	In feature area
<a href="#">Gallinago stenura</a> Pin-tailed Snipe [841]		Roosting likely to occur within area overfly marine area	In feature area
<a href="#">Glareola maldivarum</a> Oriental Pratincole [840]		Roosting known to occur within area overfly marine area	In feature area



Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Haliaeetus leucogaster</a> White-bellied Sea-Eagle [943]		Species or species habitat known to occur within area	In feature area
<a href="#">Himantopus himantopus</a> Pied Stilt, Black-winged Stilt [870]		Roosting known to occur within area overfly marine area	In feature area
<a href="#">Hirundo rustica</a> Barn Swallow [662]		Species or species habitat known to occur within area overfly marine area	In feature area
<a href="#">Hydroprogne caspia as Sterna caspia</a> Caspian Tern [808]		Breeding known to occur within area	In feature area
<a href="#">Limicola falcinellus</a> Broad-billed Sandpiper [842]		Roosting known to occur within area overfly marine area	In feature area
<a href="#">Limnodromus semipalmatus</a> Asian Dowitcher [843]		Species or species habitat known to occur within area overfly marine area	In feature area
<a href="#">Limosa lapponica</a> Bar-tailed Godwit [844]		Species or species habitat known to occur within area	In feature area
<a href="#">Limosa limosa</a> Black-tailed Godwit [845]		Roosting known to occur within area overfly marine area	In feature area
<a href="#">Macronectes giganteus</a> Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area	In feature area
<a href="#">Merops ornatus</a> Rainbow Bee-eater [670]		Species or species habitat may occur within area overfly marine area	In feature area
<a href="#">Motacilla cinerea</a> Grey Wagtail [642]		Species or species habitat known to occur within area overfly marine area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Motacilla flava</a> Yellow Wagtail [644]		Species or species habitat known to occur within area overfly marine area	In feature area
<a href="#">Numenius madagascariensis</a> Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat known to occur within area	In feature area
<a href="#">Numenius minutus</a> Little Curlew, Little Whimbrel [848]		Roosting known to occur within area overfly marine area	In feature area
<a href="#">Numenius phaeopus</a> Whimbrel [849]		Roosting known to occur within area	In feature area
<a href="#">Onychoprion anaethetus as Sterna anaethetus</a> Bridled Tern [82845]		Breeding known to occur within area	In feature area
<a href="#">Onychoprion fuscatus as Sterna fuscata</a> Sooty Tern [90682]		Breeding known to occur within area	In feature area
<a href="#">Pandion haliaetus</a> Osprey [952]		Breeding known to occur within area	In feature area
<a href="#">Papasula abbotti</a> Abbott's Booby [59297]	Endangered	Species or species habitat may occur within area	In feature area
<a href="#">Phaethon lepturus</a> White-tailed Tropicbird [1014]		Breeding known to occur within area	In feature area
<a href="#">Phaethon lepturus fulvus</a> Christmas Island White-tailed Tropicbird, Golden Bosunbird [26021]	Endangered	Species or species habitat may occur within area	In feature area
<a href="#">Phaethon rubricauda</a> Red-tailed Tropicbird [994]		Breeding known to occur within area	In feature area
<a href="#">Philomachus pugnax</a> Ruff (Reeve) [850]		Roosting known to occur within area overfly marine area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Pluvialis fulva</a> Pacific Golden Plover [25545]		Roosting known to occur within area	In feature area
<a href="#">Pluvialis squatarola</a> Grey Plover [865]		Roosting known to occur within area overfly marine area	In feature area
<a href="#">Recurvirostra novaehollandiae</a> Red-necked Avocet [871]		Roosting known to occur within area overfly marine area	In feature area
<a href="#">Rostratula australis as Rostratula benghalensis (sensu lato)</a> Australian Painted Snipe [77037]	Endangered	Species or species habitat known to occur within area overfly marine area	In feature area
<a href="#">Sterna dougallii</a> Roseate Tern [817]		Breeding known to occur within area	In feature area
<a href="#">Sternula albifrons as Sterna albifrons</a> Little Tern [82849]		Breeding known to occur within area	In feature area
<a href="#">Sternula nereis as Sterna nereis</a> Fairy Tern [82949]		Breeding known to occur within area	In feature area
<a href="#">Stiltia isabella</a> Australian Pratincole [818]		Roosting known to occur within area overfly marine area	In feature area
<a href="#">Sula dactylatra</a> Masked Booby [1021]		Breeding known to occur within area	In feature area
<a href="#">Sula leucogaster</a> Brown Booby [1022]		Breeding known to occur within area	In feature area
<a href="#">Sula sula</a> Red-footed Booby [1023]		Breeding known to occur within area	In feature area
<a href="#">Thalasseus bengalensis as Sterna bengalensis</a> Lesser Crested Tern [66546]		Breeding known to occur within area	In feature area
<a href="#">Thalasseus bergii as Sterna bergii</a> Greater Crested Tern [83000]		Breeding known to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Tringa brevipes as Heteroscelus brevipes</a> Grey-tailed Tattler [851]		Roosting known to occur within area	In feature area
<a href="#">Tringa glareola</a> Wood Sandpiper [829]		Roosting known to occur within area overfly marine area	In feature area
<a href="#">Tringa nebularia</a> Common Greenshank, Greenshank [832]		Species or species habitat known to occur within area overfly marine area	In feature area
<a href="#">Tringa stagnatilis</a> Marsh Sandpiper, Little Greenshank [833]		Roosting known to occur within area overfly marine area	In feature area
<a href="#">Tringa totanus</a> Common Redshank, Redshank [835]		Roosting known to occur within area overfly marine area	In feature area
<a href="#">Xenus cinereus</a> Terek Sandpiper [59300]		Roosting known to occur within area overfly marine area	In feature area
<b>Fish</b>			
<a href="#">Acentronura larsonae</a> Helen's Pygmy Pipehorse [66186]		Species or species habitat may occur within area	In feature area
<a href="#">Bhanotia fasciolata</a> Corrugated Pipefish, Barbed Pipefish [66188]		Species or species habitat may occur within area	In feature area
<a href="#">Bulbonaricus brauni</a> Braun's Pughead Pipefish, Pug-headed Pipefish [66189]		Species or species habitat may occur within area	In feature area
<a href="#">Campichthys tricarinatus</a> Three-keel Pipefish [66192]		Species or species habitat may occur within area	In feature area
<a href="#">Choeroichthys brachysoma</a> Pacific Short-bodied Pipefish, Short-bodied Pipefish [66194]		Species or species habitat may occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Choeroichthys latispinosus</a> Muiron Island Pipefish [66196]		Species or species habitat may occur within area	In feature area
<a href="#">Choeroichthys suillus</a> Pig-snouted Pipefish [66198]		Species or species habitat may occur within area	In feature area
<a href="#">Corythoichthys amplexus</a> Fijian Banded Pipefish, Brown-banded Pipefish [66199]		Species or species habitat may occur within area	In feature area
<a href="#">Corythoichthys flavofasciatus</a> Reticulate Pipefish, Yellow-banded Pipefish, Network Pipefish [66200]		Species or species habitat may occur within area	In feature area
<a href="#">Corythoichthys intestinalis</a> Australian Messmate Pipefish, Banded Pipefish [66202]		Species or species habitat may occur within area	In feature area
<a href="#">Corythoichthys schultzi</a> Schultz's Pipefish [66205]		Species or species habitat may occur within area	In feature area
<a href="#">Cosmocampus banneri</a> Roughridge Pipefish [66206]		Species or species habitat may occur within area	In feature area
<a href="#">Doryrhamphus dactyliophorus</a> Banded Pipefish, Ringed Pipefish [66210]		Species or species habitat may occur within area	In feature area
<a href="#">Doryrhamphus excisus</a> Bluestripe Pipefish, Indian Blue-stripe Pipefish, Pacific Blue-stripe Pipefish [66211]		Species or species habitat may occur within area	In feature area
<a href="#">Doryrhamphus janssi</a> Cleaner Pipefish, Janss' Pipefish [66212]		Species or species habitat may occur within area	In feature area
<a href="#">Doryrhamphus multiannulatus</a> Many-banded Pipefish [66717]		Species or species habitat may occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Doryrhamphus negrosensis</a> Flagtail Pipefish, Masthead Island Pipefish [66213]		Species or species habitat may occur within area	In feature area
<a href="#">Festucalex scalaris</a> Ladder Pipefish [66216]		Species or species habitat may occur within area	In feature area
<a href="#">Filicampus tigris</a> Tiger Pipefish [66217]		Species or species habitat may occur within area	In feature area
<a href="#">Halicampus brocki</a> Brock's Pipefish [66219]		Species or species habitat may occur within area	In feature area
<a href="#">Halicampus dunckeri</a> Red-hair Pipefish, Duncker's Pipefish [66220]		Species or species habitat may occur within area	In feature area
<a href="#">Halicampus grayi</a> Mud Pipefish, Gray's Pipefish [66221]		Species or species habitat may occur within area	In feature area
<a href="#">Halicampus nitidus</a> Glittering Pipefish [66224]		Species or species habitat may occur within area	In feature area
<a href="#">Halicampus spinostris</a> Spiny-snout Pipefish [66225]		Species or species habitat may occur within area	In feature area
<a href="#">Haliichthys taeniophorus</a> Ribbioned Pipehorse, Ribbioned Seadragon [66226]		Species or species habitat may occur within area	In feature area
<a href="#">Hippichthys penicillus</a> Beady Pipefish, Steep-nosed Pipefish [66231]		Species or species habitat may occur within area	In feature area
<a href="#">Hippocampus angustus</a> Western Spiny Seahorse, Narrow-bellied Seahorse [66234]		Species or species habitat may occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Hippocampus histrix</a> Spiny Seahorse, Thorny Seahorse [66236]		Species or species habitat may occur within area	In feature area
<a href="#">Hippocampus kuda</a> Spotted Seahorse, Yellow Seahorse [66237]		Species or species habitat may occur within area	In feature area
<a href="#">Hippocampus planifrons</a> Flat-face Seahorse [66238]		Species or species habitat may occur within area	In feature area
<a href="#">Hippocampus spinosissimus</a> Hedgehog Seahorse [66239]		Species or species habitat may occur within area	In feature area
<a href="#">Hippocampus trimaculatus</a> Three-spot Seahorse, Low-crowned Seahorse, Flat-faced Seahorse [66720]		Species or species habitat may occur within area	In feature area
<a href="#">Micrognathus micronotopterus</a> Tidepool Pipefish [66255]		Species or species habitat may occur within area	In feature area
<a href="#">Phoxocampus belcheri</a> Black Rock Pipefish [66719]		Species or species habitat may occur within area	In feature area
<a href="#">Solegnathus hardwickii</a> Pallid Pipehorse, Hardwick's Pipehorse [66272]		Species or species habitat may occur within area	In feature area
<a href="#">Solegnathus lettiensis</a> Gunther's Pipehorse, Indonesian Pipefish [66273]		Species or species habitat may occur within area	In feature area
<a href="#">Solenostomus cyanopterus</a> Robust Ghostpipefish, Blue-finned Ghost Pipefish, [66183]		Species or species habitat may occur within area	In feature area
<a href="#">Syngnathoides biaculeatus</a> Double-end Pipehorse, Double-ended Pipehorse, Alligator Pipefish [66279]		Species or species habitat may occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Trachyrhamphus bicoarctatus</a> Bentstick Pipefish, Bend Stick Pipefish, Short-tailed Pipefish [66280]		Species or species habitat may occur within area	In feature area
<a href="#">Trachyrhamphus longirostris</a> Straightstick Pipefish, Long-nosed Pipefish, Straight Stick Pipefish [66281]		Species or species habitat may occur within area	In feature area
<b>Mammal</b>			
<a href="#">Dugong dugon</a> Dugong [28]		Foraging, feeding or related behaviour known to occur within area	In feature area
<b>Reptile</b>			
<a href="#">Acalyptophis peronii</a> Horned Seasnake [1114]		Species or species habitat may occur within area	In feature area
<a href="#">Aipysurus apraefrontalis</a> Short-nosed Seasnake [1115]	Critically Endangered	Species or species habitat likely to occur within area	In feature area
<a href="#">Aipysurus duboisii</a> Dubois' Seasnake [1116]		Species or species habitat may occur within area	In feature area
<a href="#">Aipysurus eydouxii</a> Spine-tailed Seasnake [1117]		Species or species habitat may occur within area	In feature area
<a href="#">Aipysurus foliosquama</a> Leaf-scaled Seasnake [1118]	Critically Endangered	Species or species habitat known to occur within area	In feature area
<a href="#">Aipysurus fuscus</a> Dusky Seasnake [1119]		Species or species habitat known to occur within area	In feature area
<a href="#">Aipysurus laevis</a> Olive Seasnake [1120]		Species or species habitat may occur within area	In feature area
<a href="#">Aipysurus tenuis</a> Brown-lined Seasnake [1121]		Species or species habitat may occur within area	In feature area



Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Astrotia stokesii</a> Stokes' Seasnake [1122]		Species or species habitat may occur within area	In feature area
<a href="#">Caretta caretta</a> Loggerhead Turtle [1763]	Endangered	Foraging, feeding or related behaviour known to occur within area	In feature area
<a href="#">Chelonia mydas</a> Green Turtle [1765]	Vulnerable	Breeding known to occur within area	In feature area
<a href="#">Chitulia ornata as Hydrophis ornatus</a> Spotted Seasnake, Ornate Reef Seasnake [87377]		Species or species habitat may occur within area	In feature area
<a href="#">Crocodylus johnstoni</a> Freshwater Crocodile, Johnston's Crocodile, Johnstone's Crocodile [1773]		Species or species habitat may occur within area	In feature area
<a href="#">Crocodylus porosus</a> Salt-water Crocodile, Estuarine Crocodile [1774]		Species or species habitat likely to occur within area	In feature area
<a href="#">Dermochelys coriacea</a> Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Breeding likely to occur within area	In feature area
<a href="#">Disteira kingii</a> Spectacled Seasnake [1123]		Species or species habitat may occur within area	In feature area
<a href="#">Disteira major</a> Olive-headed Seasnake [1124]		Species or species habitat may occur within area	In feature area
<a href="#">Emydocephalus annulatus</a> Turtle-headed Seasnake [1125]		Species or species habitat may occur within area	In feature area
<a href="#">Ephalophis greyi</a> North-western Mangrove Seasnake [1127]		Species or species habitat may occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Eretmochelys imbricata</a> Hawksbill Turtle [1766]	Vulnerable	Foraging, feeding or related behaviour known to occur within area	In feature area
<a href="#">Hydrelaps darwiniensis</a> Black-ringed Seasnake [1100]		Species or species habitat may occur within area	In feature area
<a href="#">Hydrophis elegans</a> Elegant Seasnake [1104]		Species or species habitat may occur within area	In feature area
<a href="#">Hydrophis macdowelli as Hydrophis mcdowelli</a> Small-headed Seasnake [75601]		Species or species habitat may occur within area	In feature area
<a href="#">Lapemis curtus as Lapemis hardwickii</a> Spine-bellied Seasnake [83554]		Species or species habitat may occur within area	In feature area
<a href="#">Leioselasma coggeri as Hydrophis coggeri</a> Black-headed Sea Snake, Slender-necked Seasnake [87373]		Species or species habitat may occur within area	In feature area
<a href="#">Leioselasma czeblukovi as Hydrophis czeblukovi</a> Fine-spined Seasnake, Geometrical Seasnake [87374]		Species or species habitat may occur within area	In feature area
<a href="#">Lepidochelys olivacea</a> Olive Ridley Turtle, Pacific Ridley Turtle [1767]	Endangered	Congregation or aggregation known to occur within area	In feature area
<a href="#">Natator depressus</a> Flatback Turtle [59257]	Vulnerable	Breeding known to occur within area	In feature area
<a href="#">Pelamis platurus</a> Yellow-bellied Seasnake [1091]		Species or species habitat may occur within area	In feature area

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

Current Scientific Name	Status	Type of Presence	Buffer Status
<a href="#">Balaenoptera acutorostrata</a> Minke Whale [33]		Species or species habitat may occur within area	In feature area
<a href="#">Balaenoptera borealis</a> Sei Whale [34]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In feature area
<a href="#">Balaenoptera edeni</a> Bryde's Whale [35]		Species or species habitat likely to occur within area	In feature area
<a href="#">Balaenoptera musculus</a> Blue Whale [36]	Endangered	Migration route known to occur within area	In feature area
<a href="#">Balaenoptera physalus</a> Fin Whale [37]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In feature area
<a href="#">Delphinus delphis</a> Common Dolphin, Short-beaked Common Dolphin [60]		Species or species habitat may occur within area	In feature area
<a href="#">Feresa attenuata</a> Pygmy Killer Whale [61]		Species or species habitat may occur within area	In feature area
<a href="#">Globicephala macrorhynchus</a> Short-finned Pilot Whale [62]		Species or species habitat may occur within area	In feature area
<a href="#">Grampus griseus</a> Risso's Dolphin, Grampus [64]		Species or species habitat may occur within area	In feature area
<a href="#">Indopacetus pacificus</a> Longman's Beaked Whale [72]		Species or species habitat may occur within area	In feature area
<a href="#">Kogia breviceps</a> Pygmy Sperm Whale [57]		Species or species habitat may occur within area	In feature area

Current Scientific Name	Status	Type of Presence	Buffer Status
<a href="#">Kogia sima</a> Dwarf Sperm Whale [85043]		Species or species habitat may occur within area	In feature area
<a href="#">Lagenodelphis hosei</a> Fraser's Dolphin, Sarawak Dolphin [41]		Species or species habitat may occur within area	In feature area
<a href="#">Megaptera novaeangliae</a> Humpback Whale [38]		Breeding known to occur within area	In feature area
<a href="#">Mesoplodon densirostris</a> Blainville's Beaked Whale, Dense-beaked Whale [74]		Species or species habitat may occur within area	In feature area
<a href="#">Mesoplodon ginkgodens</a> Ginkgo-toothed Beaked Whale, Ginkgo-toothed Whale, Ginkgo Beaked Whale [59564]		Species or species habitat may occur within area	In feature area
<a href="#">Orcaella heinsohni</a> Australian Snubfin Dolphin [81322]		Breeding known to occur within area	In feature area
<a href="#">Orcinus orca</a> Killer Whale, Orca [46]		Species or species habitat may occur within area	In feature area
<a href="#">Peponocephala electra</a> Melon-headed Whale [47]		Species or species habitat may occur within area	In feature area
<a href="#">Physeter macrocephalus</a> Sperm Whale [59]		Species or species habitat may occur within area	In feature area
<a href="#">Pseudorca crassidens</a> False Killer Whale [48]		Species or species habitat likely to occur within area	In feature area
<a href="#">Sousa sahalensis</a> Australian Humpback Dolphin [87942]		Breeding known to occur within area	In feature area
<a href="#">Stenella attenuata</a> Spotted Dolphin, Pantropical Spotted Dolphin [51]		Species or species habitat may occur within area	In feature area

Current Scientific Name	Status	Type of Presence	Buffer Status
<a href="#">Stenella coeruleoalba</a> Striped Dolphin, Euphrosyne Dolphin [52]		Species or species habitat may occur within area	In feature area
<a href="#">Stenella longirostris</a> Long-snouted Spinner Dolphin [29]		Species or species habitat may occur within area	In feature area
<a href="#">Steno bredanensis</a> Rough-toothed Dolphin [30]		Species or species habitat may occur within area	In feature area
<a href="#">Tursiops aduncus</a> Indian Ocean Bottlenose Dolphin, Spotted Bottlenose Dolphin [68418]		Species or species habitat likely to occur within area	In feature area
<a href="#">Tursiops aduncus (Arafura/Timor Sea populations)</a> Spotted Bottlenose Dolphin (Arafura/Timor Sea populations) [78900]		Species or species habitat known to occur within area	In feature area
<a href="#">Tursiops truncatus s. str.</a> Bottlenose Dolphin [68417]		Species or species habitat may occur within area	In feature area
<a href="#">Ziphius cavirostris</a> Cuvier's Beaked Whale, Goose-beaked Whale [56]		Species or species habitat may occur within area	In feature area

Australian Marine Parks		[ Resource Information ]	
Park Name		Zone & IUCN Categories	Buffer Status
Kimberley		Habitat Protection Zone (IUCN IV)	In feature area
Kimberley		Habitat Protection Zone (IUCN IV)	In buffer area only
Argo-Rowley Terrace		Multiple Use Zone (IUCN VI)	In feature area
Argo-Rowley Terrace		Multiple Use Zone (IUCN VI)	In feature area
Eighty Mile Beach		Multiple Use Zone (IUCN VI)	In feature area
Kimberley		Multiple Use Zone (IUCN VI)	In feature area
Roebuck		Multiple Use Zone (IUCN VI)	In feature area

Park Name	Zone & IUCN Categories	Buffer Status
Argo-Rowley Terrace	National Park Zone (IUCN II)	In feature area
Kimberley	National Park Zone (IUCN II)	In feature area
Mermaid Reef	National Park Zone (IUCN II)	In feature area
Argo-Rowley Terrace	Special Purpose Zone (Trawl) (IUCN VI)	In feature area

### Habitat Critical to the Survival of Marine Turtles

Scientific Name	Behaviour	Presence	Buffer Status
Aug - Sep			
<a href="#">Natator depressus</a>			
Flatback Turtle [59257]	Nesting	Known to occur	In feature area
Dec - Jan			
<a href="#">Chelonia mydas</a>			
Green Turtle [1765]	Nesting	Known to occur	In feature area
May - Jul			
<a href="#">Lepidochelys olivacea</a>			
Olive Ridley Turtle [1767]	Nesting	Known to occur	In feature area

### Extra Information

State and Territory Reserves			[ <a href="#">Resource Information</a> ]
Protected Area Name	Reserve Type	State	Buffer Status
Bardi Jawi	Indigenous Protected Area	WA	In feature area
Bedout Island	Nature Reserve	WA	In feature area
Broome Bird Observatory	5(1)(h) Reserve	WA	In feature area
Broome Wildlife Centre	5(1)(h) Reserve	WA	In feature area
Coulomb Point	Nature Reserve	WA	In feature area
Eighty Mile Beach	Marine Park	WA	In feature area
Jarrkunpungu	Nature Reserve	WA	In feature area
Jinmarnkur	Conservation Park	WA	In feature area
Jinmarnkur Kulja	Nature Reserve	WA	In feature area
Karajarri	Indigenous Protected Area	WA	In feature area

Protected Area Name	Reserve Type	State	Buffer Status
Kujungurru Warrarn	Conservation Park	WA	In feature area
Kujungurru Warrarn	Nature Reserve	WA	In feature area
Lacepede Islands	Nature Reserve	WA	In feature area
North Turtle Island	Nature Reserve	WA	In feature area
Nyangumarta Warrarn	Indigenous Protected Area	WA	In feature area
Nyangumarta Warrarn	Indigenous Protected Area	WA	In feature area
Rowley Shoals	Marine Park	WA	In feature area
Scott Reef	Nature Reserve	WA	In feature area
Swan Island	Nature Reserve	WA	In feature area
Unnamed WA37168	5(1)(h) Reserve	WA	In feature area
Unnamed WA44672	5(1)(h) Reserve	WA	In feature area
Unnamed WA51046	5(1)(h) Reserve	WA	In feature area
Unnamed WA51105	5(1)(h) Reserve	WA	In feature area
Unnamed WA51162	5(1)(h) Reserve	WA	In feature area
Unnamed WA51497	5(1)(h) Reserve	WA	In feature area
Unnamed WA51583	5(1)(h) Reserve	WA	In feature area
Unnamed WA51617	5(1)(h) Reserve	WA	In feature area
Unnamed WA51932	5(1)(h) Reserve	WA	In feature area
Unnamed WA52354	5(1)(h) Reserve	WA	In feature area
Unnamed WA52366	Nature Reserve	WA	In feature area
Unnamed WA53015	Nature Reserve	WA	In feature area
Walyarta	Conservation Park	WA	In feature area
Yawuru	Indigenous Protected Area	WA	In feature area
Yawuru	Indigenous Protected Area	WA	In feature area
Yawuru Nagulagun / Roebuck Bay	Marine Park	WA	In feature area

Nationally Important Wetlands		[ Resource Information ]
Wetland Name	State	Buffer Status
<a href="#">Bunda-Bunda Mound Springs</a>	WA	In feature area
<a href="#">De Grey River</a>	WA	In feature area
<a href="#">Eighty Mile Beach System</a>	WA	In feature area
<a href="#">Mermaid Reef</a>	EXT	In feature area
<a href="#">Roebuck Bay</a>	WA	In feature area
<a href="#">Roebuck Plains System</a>	WA	In buffer area only
<a href="#">Willie Creek Wetlands</a>	WA	In feature area

EPBC Act Referrals					[ Resource Information ]
Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status	
<a href="#">Browse to North West Shelf Development, Indian Ocean, WA</a>	2018/8319		Approval	In feature area	
<a href="#">Ocean Barramundi Expansion Project</a>	2022/09272		Assessment	In feature area	
<a href="#">Project Highclere Cable Lay and Operation</a>	2022/09203		Completed	In feature area	
<b>Action clearly unacceptable</b>					
<a href="#">Asian Renewable Energy Hub Revised Proposal, WA</a>	2021/8891	Action Clearly Unacceptable	Completed	In feature area	
<b>Controlled action</b>					
<a href="#">2-D seismic survey Scott Reef</a>	2000/125	Controlled Action	Post-Approval	In feature area	
<a href="#">Asian Renewable Energy Hub, 220 km east of Port Hedland, Western Australia</a>	2017/8112	Controlled Action	Post-Approval	In feature area	
<a href="#">Broome Boating Facility</a>	2021/9098	Controlled Action	Referral Decision	In feature area	
<a href="#">Broome International Airport Relocation Project</a>	2000/74	Controlled Action	Post-Approval	In feature area	
<a href="#">Browse FLNG Development, Commonwealth Waters</a>	2013/7079	Controlled Action	Post-Approval	In feature area	
<a href="#">Cape Leveque Road upgrade, Stage 3, Shire of Broome, WA</a>	2013/6984	Controlled Action	Post-Approval	In feature area	
<a href="#">Conduct an exploration drilling campaign</a>	2010/5718	Controlled Action	Completed	In feature area	



Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
<b>Controlled action</b>				
<a href="#">Derby Tidal Power Project</a>	2010/5544	Controlled Action	Final PER Or EIS	In feature area
<a href="#">Development of Browse Basin Gas Fields (Upstream)</a>	2008/4111	Controlled Action	Completed	In feature area
<a href="#">Great Northern Pipeline - 630 km buried gas pipeline</a>	2009/5257	Controlled Action	Completed	In feature area
<a href="#">North Star Magnetite Project</a>	2012/6689	Controlled Action	Post-Approval	In feature area
<a href="#">Shamrock Station Irrigation Project, west Kimberley region, WA</a>	2017/8004	Controlled Action	Post-Approval	In feature area
<a href="#">Torosa South Initial Appraisal Drilling</a>	2007/3500	Controlled Action	Completed	In feature area
<b>Not controlled action</b>				
<a href="#">3D marine seismic survey in WA 314P and WA 315P</a>	2004/1927	Not Controlled Action	Completed	In feature area
<a href="#">Broome Borefield Bushfire Mitigation Program</a>	2020/8680	Not Controlled Action	Completed	In feature area
<a href="#">Broome Motorplex Relocation Project, Lot 591 Broome Road</a>	2017/8117	Not Controlled Action	Completed	In feature area
<a href="#">Broome Road Industrial Estate</a>	2020/8811	Not Controlled Action	Completed	In feature area
<a href="#">Drilling of exploration wells, Permit areas WA-301-P to WA-305-P</a>	2002/769	Not Controlled Action	Completed	In feature area
<a href="#">Establish a 4m wide trace line along the road alignment for James Price Point</a>	2010/5682	Not Controlled Action	Completed	In feature area
<a href="#">Huascaran-1 exploration well (WA-292-P)</a>	2001/539	Not Controlled Action	Completed	In feature area
<a href="#">Improving rabbit biocontrol: releasing another strain of RHDV, sthrn two thirds of Australia</a>	2015/7522	Not Controlled Action	Completed	In feature area
<a href="#">Kimberley Marine Offloading Facility</a>	2020/8736	Not Controlled Action	Completed	In feature area
<a href="#">Manaslu - 1 and Huascaran - 1 Offshore Exploration Wells</a>	2001/235	Not Controlled Action	Completed	In feature area
<a href="#">Native Orchard Development, 10km northeast of Broome WA</a>	2019/8501	Not Controlled Action	Completed	In feature area

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
<b>Not controlled action</b>				
<a href="#">Port of Broome Channel Optimisation Project, West Roebuck Bay, WA</a>	2018/8162	Not Controlled Action	Completed	In feature area
<a href="#">Power Station Upgrade</a>	2001/357	Not Controlled Action	Completed	In feature area
<a href="#">Power Station Upgrade (South Port Site)</a>	2001/414	Not Controlled Action	Completed	In feature area
<a href="#">Project Highclere Geophysical Survey</a>	2021/9023	Not Controlled Action	Completed	In feature area
<a href="#">Salt Creek Water Exploration Program</a>	2020/8622	Not Controlled Action	Completed	In feature area
<a href="#">Telfer Gold Mine Project - Mine and Borefield Extensions and Upgrade of Storage</a>	2002/787	Not Controlled Action	Completed	In feature area
<a href="#">WA-295-P Kerr-McGee Exploration Wells</a>	2001/152	Not Controlled Action	Completed	In feature area
<a href="#">Wastewater Treatment Plant</a>	2008/4545	Not Controlled Action	Completed	In feature area
<b>Not controlled action (particular manner)</b>				
<a href="#">2D seismic survey in permit areas WA-274P and WA-281P</a>	2004/1521	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">2D Seismic Survey Permit Area WA-352-P</a>	2008/4628	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">2D seismic survey within permit WA-291</a>	2007/3265	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">2 geotechnical surveys - preliminary and final</a>	2006/2886	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">3D Marine Seismic Survey (WA-482-P, WA-363-P), WA</a>	2013/6761	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">3D Marine Seismic Survey in WA 457-P &amp; WA 458-P, North West Shelf, offshore WA</a>	2013/6862	Not Controlled Action (Particular Manner)	Post-Approval	In feature area

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
<b>Not controlled action (particular manner)</b>				
<a href="#">3D marine seismic Survey - Maxima 3D MSS</a>	2006/2945	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">3D Seismic Survey, Browse Basin, WA</a>	2009/5048	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">3D Seismic Survey, near Scott Reef, Browse Basin</a>	2005/2126	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">3D sesmic survey</a>	2006/2781	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Aurora MC3D Marine Seismic Survey</a>	2010/5510	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Caswell MC3D Marine Seismic Survey</a>	2012/6594	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Conduct an exploration drilling campaign</a>	2011/5964	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Construction of a 43km long sealed access road to the Browse LNG precinct</a>	2011/5852	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Cue Seismic Survey within WA-359-P, WA-361-P and WA-360-P</a>	2007/3647	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">DAVROS MC 3D marine seismic survey northwaet of Dampier, WA</a>	2013/7092	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Deep Water Northwest Shelf 2D Seismic Survey</a>	2007/3260	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Effect of marine seismic sounds to demersal fish and pearl oysters, north-west WA</a>	2018/8169	Not Controlled Action (Particular	Post-Approval	In feature area

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
<b>Not controlled action (particular manner)</b>				
		Manner)		
<a href="#">Endurance 3D Marine Seismic Data Acquisition Survey</a>	2007/3667	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Establishment of AQIS washdown facility, logistics support base and ancillary businesses</a>	2012/6364	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Exploration Drilling Program - Permit areas - WA-314-P, WA-315-P, WA-398-P.</a>	2008/4064	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Fletcher-Finucane Development, WA26-L and WA191-P</a>	2011/6123	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Geoscience Australia - Marine survey in Browse Basin to acquire data to assist assessment of CO2 sto</a>	2013/6747	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Gigas 2D Pilot Ocean Bottom Cable Marine Seismic Survey</a>	2007/3839	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Kingtree &amp; Ironstone-1 Exploration Wells</a>	2011/5935	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Klimt 2D Marine Seismic Survey</a>	2007/3856	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Koolama 2D Seismic Survey Dampier Basin</a>	2010/5420	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Kraken, Lusca &amp; Asperus 3D Marine Seismic Survey</a>	2013/6730	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Mariner Non-Exclusive 2D Seismic Survey</a>	2011/6172	Not Controlled Action (Particular Manner)	Post-Approval	In feature area

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
<b>Not controlled action (particular manner)</b>				
<a href="#">Offshore Canning Multi Client 2D Marine Seismic Survey</a>	2010/5393	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Offshore Fibre Optic Cable Network Construction &amp; Operation, Port Hedland WA to Darwin NT</a>	2014/7223	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Outer Canning exploration drilling program off NW coast of WA</a>	2012/6618	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Phoenix 3D Seismic Survey, Bedout Sub-Basin</a>	2010/5360	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Pilot Appraisal Well - Torosa South 1</a>	2008/3991	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Repsol 3d &amp; 2D Marine Seismic Survey</a>	2012/6658	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Rose 3D Seismic Program</a>	2008/4239	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Rosebud 3D Marine Seismic Survey in WA-30-R and TR/5</a>	2012/6493	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Schild Phase 11 MC3D Marine Seismic Survey, Browse Basin</a>	2013/6894	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Scott Reef Seismic Research</a>	2006/2647	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Torosa-5 Apraisal Well, WA-30-R</a>	2008/4430	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Tridacna 3D Ocean Bottom Cable Marine Seismic Survey</a>	2011/5959	Not Controlled Action (Particular	Post-Approval	In feature area

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
<b>Not controlled action (particular manner)</b>				
		Manner)		
<a href="#">Vampire 2D Non Exclusive Seismic Survey, WA</a>	2010/5543	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Veritas Voyager 2D Marine Seismic Survey</a>	2009/5151	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Westralia SPAN Marine Seismic Survey, WA &amp; NT</a>	2012/6463	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Woodside Southern Browse 3D Seismic Survey, WA</a>	2007/3534	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Zeemeermin MC3D seismic survey, Browse Basin, Offshore WA</a>	2009/5023	Not Controlled Action (Particular Manner)	Post-Approval	In feature area

<b>Referral decision</b>				
<a href="#">3D Seismic Survey</a>	2008/4219	Referral Decision	Completed	In feature area
<a href="#">Aurora extension MC3D Marine Seismic Survey</a>	2011/5887	Referral Decision	Completed	In feature area
<a href="#">Experimental Study of Behavioural and Physiological Impact on Fish of Seismic Ex</a>	2006/2625	Referral Decision	Completed	In feature area
<a href="#">Pilot Appraisal Well - Torosa South-1</a>	2008/3985	Referral Decision	Completed	In feature area
<a href="#">Seismic Data Acquisition, Browse Basin</a>	2010/5475	Referral Decision	Completed	In feature area

## 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	Buffer Status
<a href="#">Ancient coastline at 125 m depth contour</a>	North-west	In feature area
<a href="#">Canyons linking the Argo Abyssal Plain with the Scott Plateau</a>	North-west	In feature area

Name	Region	Buffer Status
<a href="#">Continental Slope Demersal Fish Communities</a>	North-west	In feature area
<a href="#">Glomar Shoals</a>	North-west	In feature area
<a href="#">Mermaid Reef and Commonwealth waters surrounding Rowley Shoals</a>	North-west	In feature area
<a href="#">Seringapatam Reef and Commonwealth waters in the Scott Reef Complex</a>	North-west	In feature area

## Biologically Important Areas

Scientific Name	Behaviour	Presence	Buffer Status
<b>Dolphins</b>			
<a href="#">Orcaella heinsohni</a> Australian Snubfin Dolphin [81322]	Breeding	Known to occur	In feature area
<a href="#">Orcaella heinsohni</a> Australian Snubfin Dolphin [81322]	Calving	Known to occur	In feature area
<a href="#">Orcaella heinsohni</a> Australian Snubfin Dolphin [81322]	Foraging (high density prey)	Known to occur	In feature area
<a href="#">Orcaella heinsohni</a> Australian Snubfin Dolphin [81322]	Foraging likely	Known to occur	In feature area
<a href="#">Sousa chinensis</a> Indo-Pacific Humpback Dolphin [50]	Breeding	Known to occur	In feature area
<a href="#">Sousa chinensis</a> Indo-Pacific Humpback Dolphin [50]	Calving	Known to occur	In feature area
<a href="#">Sousa chinensis</a> Indo-Pacific Humpback Dolphin [50]	Foraging	Likely to occur	In feature area
<a href="#">Sousa chinensis</a> Indo-Pacific Humpback Dolphin [50]	Foraging (high density prey)	Known to occur	In feature area
<a href="#">Tursiops aduncus</a> Indo-Pacific/Spotted Bottlenose Dolphin [68418]	Breeding	Known to occur	In feature area
<a href="#">Tursiops aduncus</a> Indo-Pacific/Spotted Bottlenose Dolphin [68418]	Calving	Known to occur	In feature area

Scientific Name	Behaviour	Presence	Buffer Status
<a href="#">Tursiops aduncus</a> Indo-Pacific/Spotted Bottlenose Dolphin [68418]	Foraging	Known to occur	In feature area
<a href="#">Tursiops aduncus</a> Indo-Pacific/Spotted Bottlenose Dolphin [68418]	Foraging likely	Known to occur	In feature area
<a href="#">Tursiops aduncus</a> Indo-Pacific/Spotted Bottlenose Dolphin [68418]	Migration likely	Known to occur	In feature area
<b>Dugong</b>			
<a href="#">Dugong dugon</a> Dugong [28]	Foraging	Likely to occur	In feature area
<a href="#">Dugong dugon</a> Dugong [28]	Foraging	Known to occur	In feature area
<a href="#">Dugong dugon</a> Dugong [28]	Migration likely	Known to occur	In feature area
<b>Marine Turtles</b>			
<a href="#">Caretta caretta</a> Loggerhead Turtle [1763]	Foraging	Known to occur	In feature area
<a href="#">Chelonia mydas</a> Green Turtle [1765]	Foraging	Likely to occur	In feature area
<a href="#">Chelonia mydas</a> Green Turtle [1765]	Foraging	Known to occur	In feature area
<a href="#">Chelonia mydas</a> Green Turtle [1765]	Internesting	Likely to occur	In feature area
<a href="#">Chelonia mydas</a> Green Turtle [1765]	Internesting	Known to occur	In feature area
<a href="#">Chelonia mydas</a> Green Turtle [1765]	Internesting buffer	Known to occur	In feature area
<a href="#">Chelonia mydas</a> Green Turtle [1765]	Nesting	Known to occur	In feature area
<a href="#">Eretmochelys imbricata</a> Hawksbill Turtle [1766]	Foraging	Known to occur	In feature area



Scientific Name	Behaviour	Presence	Buffer Status
<a href="#">Eretmochelys imbricata</a> Hawksbill Turtle [1766]	Internesting buffer	Known to occur	In feature area
<a href="#">Eretmochelys imbricata</a> Hawksbill Turtle [1766]	Nesting	Known to occur	In feature area
<a href="#">Natator depressus</a> Flatback Turtle [59257]	Foraging	Known to occur	In feature area
<a href="#">Natator depressus</a> Flatback Turtle [59257]	Internesting	Known to occur	In feature area
<a href="#">Natator depressus</a> Flatback Turtle [59257]	Internesting buffer	Known to occur	In feature area
<a href="#">Natator depressus</a> Flatback Turtle [59257]	Nesting	Known to occur	In feature area
<b>River shark</b>			
<a href="#">Pristis clavata</a> Dwarf Sawfish [68447]	Foraging	Known to occur	In feature area
<a href="#">Pristis clavata</a> Dwarf Sawfish [68447]	Juvenile	Known to occur	In feature area
<a href="#">Pristis clavata</a> Dwarf Sawfish [68447]	Nursing	Known to occur	In feature area
<a href="#">Pristis clavata</a> Dwarf Sawfish [68447]	Pupping	Known to occur	In feature area
<a href="#">Pristis pristis</a> Freshwater Sawfish [60756]	Foraging	Known to occur	In feature area
<a href="#">Pristis pristis</a> Freshwater Sawfish [60756]	Juvenile	Known to occur	In feature area
<a href="#">Pristis pristis</a> Freshwater Sawfish [60756]	Nursing	Likely to occur	In feature area
<a href="#">Pristis pristis</a> Freshwater Sawfish [60756]	Pupping	Known to occur	In feature area

Scientific Name	Behaviour	Presence	Buffer Status
<a href="#">Pristis pristis</a> Freshwater Sawfish [60756]	Pupping	Likely to occur	In feature area
<a href="#">Pristis zijsron</a> Green Sawfish [68442]	Foraging	Known to occur	In feature area
<a href="#">Pristis zijsron</a> Green Sawfish [68442]	Nursing	Known to occur	In feature area
<a href="#">Pristis zijsron</a> Green Sawfish [68442]	Pupping	Known to occur	In feature area
<b>Seabirds</b>			
<a href="#">Ardenna pacifica</a> Wedge-tailed Shearwater [84292]	Breeding	Known to occur	In feature area
<a href="#">Fregata ariel</a> Lesser Frigatebird [1012]	Breeding	Known to occur	In feature area
<a href="#">Fregata minor</a> Greater Frigatebird [1013]	Breeding	Known to occur	In feature area
<a href="#">Phaethon lepturus</a> White-tailed Tropicbird [1014]	Breeding	Known to occur	In feature area
<a href="#">Sterna dougallii</a> Roseate Tern [817]	Breeding	Known to occur	In feature area
<a href="#">Sterna dougallii</a> Roseate Tern [817]	Resting	Known to occur	In feature area
<a href="#">Sternula albifrons sinensis</a> Little Tern [82850]	Breeding	Known to occur	In feature area
<a href="#">Sternula albifrons sinensis</a> Little Tern [82850]	Resting	Known to occur	In feature area
<a href="#">Sula leucogaster</a> Brown Booby [1022]	Breeding	Known to occur	In feature area
<a href="#">Sula sula</a> Red-footed Booby [1023]	Breeding	Known to occur	In feature area

Scientific Name	Behaviour	Presence	Buffer Status
<a href="#">Thalasseus bengalensis</a> Lesser Crested Tern [66546]	Breeding	Known to occur	In feature area
<b>Sharks</b>			
<a href="#">Rhincodon typus</a> Whale Shark [66680]	Foraging	Known to occur	In feature area
<b>Whales</b>			
<a href="#">Balaenoptera musculus brevicauda</a> Pygmy Blue Whale [81317]	Distribution	Known to occur	In feature area
<a href="#">Balaenoptera musculus brevicauda</a> Pygmy Blue Whale [81317]	Foraging	Known to occur	In feature area
<a href="#">Balaenoptera musculus brevicauda</a> Pygmy Blue Whale [81317]	Migration	Known to occur	In feature area
<a href="#">Megaptera novaeangliae</a> Humpback Whale [38]	Calving	Known to occur	In feature area
<a href="#">Megaptera novaeangliae</a> Humpback Whale [38]	Migration	Known to occur	In feature area
<a href="#">Megaptera novaeangliae</a> Humpback Whale [38]	Migration (north and south)	Known to occur	In feature area
<a href="#">Megaptera novaeangliae</a> Humpback Whale [38]	Nursing	Known to occur	In feature area
<a href="#">Megaptera novaeangliae</a> Humpback Whale [38]	Resting	Known to occur	In feature area

# Caveat

## 1 PURPOSE

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

The report contains the mapped locations of:

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

## 2 DISCLAIMER

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

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

## 3 DATA SOURCES

Threatened ecological communities

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

Threatened, migratory and marine species

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

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

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

## 4 LIMITATIONS

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

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

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

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

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

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

# Acknowledgements

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

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

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

Please feel free to provide feedback via the [Contact us](#) page.

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# 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.

POLYGON 3

[Summary](#)

[Details](#)

[Matters of NES](#)

[Other Matters Protected by the EPBC Act](#)

[Extra Information](#)

[Caveat](#)

[Acknowledgements](#)

Report created: 24-Jul-2023

# 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 [Administrative Guidelines on Significance](#).

<a href="#">World Heritage Properties:</a>	None
<a href="#">National Heritage Places:</a>	None
<a href="#">Wetlands of International Importance (Ramsar)</a>	None
<a href="#">Great Barrier Reef Marine Park:</a>	None
<a href="#">Commonwealth Marine Area:</a>	4
<a href="#">Listed Threatened Ecological Communities:</a>	None
<a href="#">Listed Threatened Species:</a>	30
<a href="#">Listed Migratory Species:</a>	46

## 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 [permit](#) 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.

<a href="#">Commonwealth Lands:</a>	None
<a href="#">Commonwealth Heritage Places:</a>	None
<a href="#">Listed Marine Species:</a>	78
<a href="#">Whales and Other Cetaceans:</a>	32
<a href="#">Critical Habitats:</a>	None
<a href="#">Commonwealth Reserves Terrestrial:</a>	None
<a href="#">Australian Marine Parks:</a>	4
<a href="#">Habitat Critical to the Survival of Marine Turtles:</a>	1

## Extra Information

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

<a href="#">State and Territory Reserves:</a>	None
<a href="#">Regional Forest Agreements:</a>	None
<a href="#">Nationally Important Wetlands:</a>	None
<a href="#">EPBC Act Referrals:</a>	144
<a href="#">Key Ecological Features (Marine):</a>	5
<a href="#">Biologically Important Areas:</a>	9
<a href="#">Bioregional Assessments:</a>	None
<a href="#">Geological and Bioregional Assessments:</a>	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	Buffer Status
EEZ and Territorial Sea	In feature area
EEZ and Territorial Sea	In feature area
Extended Continental Shelf	In feature area
Extended Continental Shelf	In feature area

### 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	Buffer Status
<b>BIRD</b>			
<a href="#">Calidris canutus</a> Red Knot, Knot [855]	Endangered	Species or species habitat may occur within area	In feature area
<a href="#">Calidris ferruginea</a> Curlew Sandpiper [856]	Critically Endangered	Species or species habitat may occur within area	In feature area
<a href="#">Fregata andrewsi</a> Christmas Island Frigatebird, Andrew's Frigatebird [1011]	Endangered	Foraging, feeding or related behaviour known to occur within area	In feature area
<a href="#">Macronectes giganteus</a> Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area	In feature area
<a href="#">Numenius madagascariensis</a> Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat may occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Papasula abbotti</a> Abbott's Booby [59297]	Endangered	Species or species habitat may occur within area	In feature area
<a href="#">Phaethon lepturus fulvus</a> Christmas Island White-tailed Tropicbird, Golden Bosunbird [26021]	Endangered	Species or species habitat may occur within area	In feature area
<a href="#">Pterodroma mollis</a> Soft-plumaged Petrel [1036]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In feature area
<a href="#">Sternula nereis nereis</a> Australian Fairy Tern [82950]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In feature area
<a href="#">Thalassarche carteri</a> Indian Yellow-nosed Albatross [64464]	Vulnerable	Species or species habitat may occur within area	In feature area
<b>FISH</b>			
<a href="#">Thunnus maccoyii</a> Southern Bluefin Tuna [69402]	Conservation Dependent	Breeding known to occur within area	In feature area
<b>MAMMAL</b>			
<a href="#">Balaenoptera borealis</a> Sei Whale [34]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In feature area
<a href="#">Balaenoptera musculus</a> Blue Whale [36]	Endangered	Migration route known to occur within area	In feature area
<a href="#">Balaenoptera physalus</a> Fin Whale [37]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In feature area
<a href="#">Eubalaena australis</a> Southern Right Whale [40]	Endangered	Species or species habitat may occur within area	In feature area
<b>REPTILE</b>			

Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Aipysurus apraefrontalis</a> Short-nosed Seasnake [1115]	Critically Endangered	Species or species habitat known to occur within area	In feature area
<a href="#">Aipysurus foliosquama</a> Leaf-scaled Seasnake [1118]	Critically Endangered	Species or species habitat likely to occur within area	In feature area
<a href="#">Caretta caretta</a> Loggerhead Turtle [1763]	Endangered	Species or species habitat known to occur within area	In feature area
<a href="#">Chelonia mydas</a> Green Turtle [1765]	Vulnerable	Species or species habitat known to occur within area	In feature area
<a href="#">Dermochelys coriacea</a> Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Species or species habitat known to occur within area	In feature area
<a href="#">Eretmochelys imbricata</a> Hawksbill Turtle [1766]	Vulnerable	Species or species habitat known to occur within area	In feature area
<a href="#">Lepidochelys olivacea</a> Olive Ridley Turtle, Pacific Ridley Turtle [1767]	Endangered	Species or species habitat likely to occur within area	In feature area
<a href="#">Natator depressus</a> Flatback Turtle [59257]	Vulnerable	Congregation or aggregation known to occur within area	In feature area
<b>SHARK</b>			
<a href="#">Carcharias taurus (west coast population)</a> Grey Nurse Shark (west coast population) [68752]	Vulnerable	Species or species habitat known to occur within area	In feature area
<a href="#">Carcharodon carcharias</a> White Shark, Great White Shark [64470]	Vulnerable	Species or species habitat may occur within area	In feature area
<a href="#">Pristis clavata</a> Dwarf Sawfish, Queensland Sawfish [68447]	Vulnerable	Species or species habitat known to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Pristis pristis</a> Freshwater Sawfish, Largetooth Sawfish, River Sawfish, Leichhardt's Sawfish, Northern Sawfish [60756]	Vulnerable	Species or species habitat may occur within area	In feature area
<a href="#">Pristis zijsron</a> Green Sawfish, Dindagubba, Narrowsnout Sawfish [68442]	Vulnerable	Species or species habitat known to occur within area	In feature area
<a href="#">Rhincodon typus</a> Whale Shark [66680]	Vulnerable	Foraging, feeding or related behaviour known to occur within area	In feature area
<a href="#">Sphyrna lewini</a> Scalloped Hammerhead [85267]	Conservation Dependent	Species or species habitat known to occur within area	In feature area

Listed Migratory Species [ [Resource Information](#) ]

Scientific Name	Threatened Category	Presence Text	Buffer Status
<b>Migratory Marine Birds</b>			
<a href="#">Anous stolidus</a> Common Noddy [825]		Species or species habitat may occur within area	In feature area
<a href="#">Ardeanna carneipes</a> Flesh-footed Shearwater, Fleshy-footed Shearwater [82404]		Species or species habitat may occur within area	In feature area
<a href="#">Calonectris leucomelas</a> Streaked Shearwater [1077]		Species or species habitat likely to occur within area	In feature area
<a href="#">Fregata andrewsi</a> Christmas Island Frigatebird, Andrew's Frigatebird [1011]	Endangered	Foraging, feeding or related behaviour known to occur within area	In feature area
<a href="#">Fregata ariel</a> Lesser Frigatebird, Least Frigatebird [1012]		Species or species habitat likely to occur within area	In feature area
<a href="#">Fregata minor</a> Great Frigatebird, Greater Frigatebird [1013]		Species or species habitat may occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Macronectes giganteus</a> Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area	In feature area
<a href="#">Phaethon lepturus</a> White-tailed Tropicbird [1014]		Species or species habitat likely to occur within area	In feature area
<a href="#">Thalassarche carteri</a> Indian Yellow-nosed Albatross [64464]	Vulnerable	Species or species habitat may occur within area	In feature area
<b>Migratory Marine Species</b>			
<a href="#">Anoxypristis cuspidata</a> Narrow Sawfish, Knifetooth Sawfish [68448]		Species or species habitat known to occur within area	In feature area
<a href="#">Balaenoptera bonaerensis</a> Antarctic Minke Whale, Dark-shoulder Minke Whale [67812]		Species or species habitat likely to occur within area	In feature area
<a href="#">Balaenoptera borealis</a> Sei Whale [34]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In feature area
<a href="#">Balaenoptera edeni</a> Bryde's Whale [35]		Species or species habitat likely to occur within area	In feature area
<a href="#">Balaenoptera musculus</a> Blue Whale [36]	Endangered	Migration route known to occur within area	In feature area
<a href="#">Balaenoptera physalus</a> Fin Whale [37]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In feature area
<a href="#">Carcharhinus longimanus</a> Oceanic Whitetip Shark [84108]		Species or species habitat likely to occur within area	In feature area
<a href="#">Carcharodon carcharias</a> White Shark, Great White Shark [64470]	Vulnerable	Species or species habitat may occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Caretta caretta</a> Loggerhead Turtle [1763]	Endangered	Species or species habitat known to occur within area	In feature area
<a href="#">Chelonia mydas</a> Green Turtle [1765]	Vulnerable	Species or species habitat known to occur within area	In feature area
<a href="#">Dermochelys coriacea</a> Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Species or species habitat known to occur within area	In feature area
<a href="#">Dugong dugon</a> Dugong [28]		Species or species habitat likely to occur within area	In feature area
<a href="#">Eretmochelys imbricata</a> Hawksbill Turtle [1766]	Vulnerable	Species or species habitat known to occur within area	In feature area
<a href="#">Eubalaena australis as Balaena glacialis australis</a> Southern Right Whale [40]	Endangered	Species or species habitat may occur within area	In feature area
<a href="#">Isurus oxyrinchus</a> Shortfin Mako, Mako Shark [79073]		Species or species habitat likely to occur within area	In feature area
<a href="#">Isurus paucus</a> Longfin Mako [82947]		Species or species habitat likely to occur within area	In feature area
<a href="#">Lepidochelys olivacea</a> Olive Ridley Turtle, Pacific Ridley Turtle [1767]	Endangered	Species or species habitat likely to occur within area	In feature area
<a href="#">Megaptera novaeangliae</a> Humpback Whale [38]		Breeding known to occur within area	In feature area
<a href="#">Mobula alfredi as Manta alfredi</a> Reef Manta Ray, Coastal Manta Ray [90033]		Species or species habitat likely to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Mobula birostris as Manta birostris</a> Giant Manta Ray [90034]		Species or species habitat likely to occur within area	In feature area
<a href="#">Natator depressus</a> Flatback Turtle [59257]	Vulnerable	Congregation or aggregation known to occur within area	In feature area
<a href="#">Orcaella heinsohni</a> Australian Snubfin Dolphin [81322]		Species or species habitat may occur within area	In feature area
<a href="#">Orcinus orca</a> Killer Whale, Orca [46]		Species or species habitat may occur within area	In feature area
<a href="#">Physeter macrocephalus</a> Sperm Whale [59]		Species or species habitat may occur within area	In feature area
<a href="#">Pristis clavata</a> Dwarf Sawfish, Queensland Sawfish [68447]	Vulnerable	Species or species habitat known to occur within area	In feature area
<a href="#">Pristis pristis</a> Freshwater Sawfish, Largetooth Sawfish, River Sawfish, Leichhardt's Sawfish, Northern Sawfish [60756]	Vulnerable	Species or species habitat may occur within area	In feature area
<a href="#">Pristis zijsron</a> Green Sawfish, Dindagubba, Narrowsnout Sawfish [68442]	Vulnerable	Species or species habitat known to occur within area	In feature area
<a href="#">Rhincodon typus</a> Whale Shark [66680]	Vulnerable	Foraging, feeding or related behaviour known to occur within area	In feature area
<a href="#">Sousa sahalensis as Sousa chinensis</a> Australian Humpback Dolphin [87942]		Species or species habitat may occur within area	In feature area
<a href="#">Tursiops aduncus (Arafura/Timor Sea populations)</a> Spotted Bottlenose Dolphin (Arafura/Timor Sea populations) [78900]		Species or species habitat known to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Actitis hypoleucos</a> Common Sandpiper [59309]		Species or species habitat may occur within area	In feature area
<a href="#">Calidris acuminata</a> Sharp-tailed Sandpiper [874]		Species or species habitat may occur within area	In feature area
<a href="#">Calidris canutus</a> Red Knot, Knot [855]	Endangered	Species or species habitat may occur within area	In feature area
<a href="#">Calidris ferruginea</a> Curlew Sandpiper [856]	Critically Endangered	Species or species habitat may occur within area	In feature area
<a href="#">Calidris melanotos</a> Pectoral Sandpiper [858]		Species or species habitat may occur within area	In feature area
<a href="#">Numenius madagascariensis</a> Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat may occur within area	In feature area
<a href="#">Pandion haliaetus</a> Osprey [952]		Species or species habitat known to occur within area	In feature area

## Other Matters Protected by the EPBC Act

Listed Marine Species			[ Resource Information ]
Scientific Name	Threatened Category	Presence Text	Buffer Status
Bird			
<a href="#">Actitis hypoleucos</a> Common Sandpiper [59309]		Species or species habitat may occur within area	In feature area
<a href="#">Anous stolidus</a> Common Noddy [825]		Species or species habitat may occur within area	In feature area



Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Ardena carneipes as Puffinus carneipes</a> Flesh-footed Shearwater, Fleshy-footed Shearwater [82404]		Species or species habitat may occur within area	In feature area
<a href="#">Calidris acuminata</a> Sharp-tailed Sandpiper [874]		Species or species habitat may occur within area	In feature area
<a href="#">Calidris canutus</a> Red Knot, Knot [855]	Endangered	Species or species habitat may occur within area overfly marine area	In feature area
<a href="#">Calidris ferruginea</a> Curlew Sandpiper [856]	Critically Endangered	Species or species habitat may occur within area overfly marine area	In feature area
<a href="#">Calidris melanotos</a> Pectoral Sandpiper [858]		Species or species habitat may occur within area overfly marine area	In feature area
<a href="#">Calonectris leucomelas</a> Streaked Shearwater [1077]		Species or species habitat likely to occur within area	In feature area
<a href="#">Fregata andrewsi</a> Christmas Island Frigatebird, Andrew's Frigatebird [1011]	Endangered	Foraging, feeding or related behaviour known to occur within area	In feature area
<a href="#">Fregata ariel</a> Lesser Frigatebird, Least Frigatebird [1012]		Species or species habitat likely to occur within area	In feature area
<a href="#">Fregata minor</a> Great Frigatebird, Greater Frigatebird [1013]		Species or species habitat may occur within area	In feature area
<a href="#">Macronectes giganteus</a> Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Numenius madagascariensis</a> Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat may occur within area	In feature area
<a href="#">Pandion haliaetus</a> Osprey [952]		Species or species habitat known to occur within area	In feature area
<a href="#">Papasula abbotti</a> Abbott's Booby [59297]	Endangered	Species or species habitat may occur within area	In feature area
<a href="#">Phaethon lepturus</a> White-tailed Tropicbird [1014]		Species or species habitat likely to occur within area	In feature area
<a href="#">Phaethon lepturus fulvus</a> Christmas Island White-tailed Tropicbird, Golden Bosunbird [26021]	Endangered	Species or species habitat may occur within area	In feature area
<a href="#">Pterodroma mollis</a> Soft-plumaged Petrel [1036]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In feature area
<a href="#">Thalassarche carteri</a> Indian Yellow-nosed Albatross [64464]	Vulnerable	Species or species habitat may occur within area	In feature area
<b>Fish</b>			
<a href="#">Acentronura larsonae</a> Helen's Pygmy Pipehorse [66186]		Species or species habitat may occur within area	In feature area
<a href="#">Bulbonaricus brauni</a> Braun's Pughead Pipefish, Pug-headed Pipefish [66189]		Species or species habitat may occur within area	In feature area
<a href="#">Campichthys tricarinatus</a> Three-keel Pipefish [66192]		Species or species habitat may occur within area	In feature area
<a href="#">Choeroichthys brachysoma</a> Pacific Short-bodied Pipefish, Short-bodied Pipefish [66194]		Species or species habitat may occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Choeroichthys latispinosus</a> Muiron Island Pipefish [66196]		Species or species habitat may occur within area	In feature area
<a href="#">Choeroichthys suillus</a> Pig-snouted Pipefish [66198]		Species or species habitat may occur within area	In feature area
<a href="#">Corythoichthys flavofasciatus</a> Reticulate Pipefish, Yellow-banded Pipefish, Network Pipefish [66200]		Species or species habitat may occur within area	In feature area
<a href="#">Cosmocampus banneri</a> Roughridge Pipefish [66206]		Species or species habitat may occur within area	In feature area
<a href="#">Doryrhamphus dactyliophorus</a> Banded Pipefish, Ringed Pipefish [66210]		Species or species habitat may occur within area	In feature area
<a href="#">Doryrhamphus excisus</a> Bluestripe Pipefish, Indian Blue-stripe Pipefish, Pacific Blue-stripe Pipefish [66211]		Species or species habitat may occur within area	In feature area
<a href="#">Doryrhamphus janssi</a> Cleaner Pipefish, Janss' Pipefish [66212]		Species or species habitat may occur within area	In feature area
<a href="#">Doryrhamphus multiannulatus</a> Many-banded Pipefish [66717]		Species or species habitat may occur within area	In feature area
<a href="#">Doryrhamphus negrosensis</a> Flagtail Pipefish, Masthead Island Pipefish [66213]		Species or species habitat may occur within area	In feature area
<a href="#">Festucalex scalaris</a> Ladder Pipefish [66216]		Species or species habitat may occur within area	In feature area
<a href="#">Filicampus tigris</a> Tiger Pipefish [66217]		Species or species habitat may occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Halicampus brocki</a> Brock's Pipefish [66219]		Species or species habitat may occur within area	In feature area
<a href="#">Halicampus grayi</a> Mud Pipefish, Gray's Pipefish [66221]		Species or species habitat may occur within area	In feature area
<a href="#">Halicampus nitidus</a> Glittering Pipefish [66224]		Species or species habitat may occur within area	In feature area
<a href="#">Halicampus spirostris</a> Spiny-snout Pipefish [66225]		Species or species habitat may occur within area	In feature area
<a href="#">Haliichthys taeniophorus</a> Ribbioned Pipehorse, Ribbioned Seadragon [66226]		Species or species habitat may occur within area	In feature area
<a href="#">Hippichthys penicillus</a> Beady Pipefish, Steep-nosed Pipefish [66231]		Species or species habitat may occur within area	In feature area
<a href="#">Hippocampus angustus</a> Western Spiny Seahorse, Narrow-bellied Seahorse [66234]		Species or species habitat may occur within area	In feature area
<a href="#">Hippocampus histrix</a> Spiny Seahorse, Thorny Seahorse [66236]		Species or species habitat may occur within area	In feature area
<a href="#">Hippocampus kuda</a> Spotted Seahorse, Yellow Seahorse [66237]		Species or species habitat may occur within area	In feature area
<a href="#">Hippocampus planifrons</a> Flat-face Seahorse [66238]		Species or species habitat may occur within area	In feature area
<a href="#">Hippocampus spinosissimus</a> Hedgehog Seahorse [66239]		Species or species habitat may occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Hippocampus trimaculatus</a> Three-spot Seahorse, Low-crowned Seahorse, Flat-faced Seahorse [66720]		Species or species habitat may occur within area	In feature area
<a href="#">Micrognathus micronotopterus</a> Tidepool Pipefish [66255]		Species or species habitat may occur within area	In feature area
<a href="#">Phoxocampus belcheri</a> Black Rock Pipefish [66719]		Species or species habitat may occur within area	In feature area
<a href="#">Solegnathus hardwickii</a> Pallid Pipehorse, Hardwick's Pipehorse [66272]		Species or species habitat may occur within area	In feature area
<a href="#">Solegnathus lettiensis</a> Gunther's Pipehorse, Indonesian Pipefish [66273]		Species or species habitat may occur within area	In feature area
<a href="#">Solenostomus cyanopterus</a> Robust Ghostpipefish, Blue-finned Ghost Pipefish, [66183]		Species or species habitat may occur within area	In feature area
<a href="#">Syngnathoides biaculeatus</a> Double-end Pipehorse, Double-ended Pipehorse, Alligator Pipefish [66279]		Species or species habitat may occur within area	In feature area
<a href="#">Trachyrhamphus bicoarctatus</a> Bentstick Pipefish, Bend Stick Pipefish, Short-tailed Pipefish [66280]		Species or species habitat may occur within area	In feature area
<a href="#">Trachyrhamphus longirostris</a> Straightstick Pipefish, Long-nosed Pipefish, Straight Stick Pipefish [66281]		Species or species habitat may occur within area	In feature area
<b>Mammal</b>			
<a href="#">Dugong dugon</a> Dugong [28]		Species or species habitat likely to occur within area	In feature area
<b>Reptile</b>			
<a href="#">Acalyptophis peronii</a> Horned Seasnake [1114]		Species or species habitat may occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Aipysurus apraefrontalis</a> Short-nosed Seasnake [1115]	Critically Endangered	Species or species habitat known to occur within area	In feature area
<a href="#">Aipysurus duboisii</a> Dubois' Seasnake [1116]		Species or species habitat may occur within area	In feature area
<a href="#">Aipysurus eydouxii</a> Spine-tailed Seasnake [1117]		Species or species habitat may occur within area	In feature area
<a href="#">Aipysurus foliosquama</a> Leaf-scaled Seasnake [1118]	Critically Endangered	Species or species habitat likely to occur within area	In feature area
<a href="#">Aipysurus laevis</a> Olive Seasnake [1120]		Species or species habitat may occur within area	In feature area
<a href="#">Aipysurus tenuis</a> Brown-lined Seasnake [1121]		Species or species habitat may occur within area	In feature area
<a href="#">Astrotia stokesii</a> Stokes' Seasnake [1122]		Species or species habitat may occur within area	In feature area
<a href="#">Caretta caretta</a> Loggerhead Turtle [1763]	Endangered	Species or species habitat known to occur within area	In feature area
<a href="#">Chelonia mydas</a> Green Turtle [1765]	Vulnerable	Species or species habitat known to occur within area	In feature area
<a href="#">Chitulia ornata as Hydrophis ornatus</a> Spotted Seasnake, Ornate Reef Seasnake [87377]		Species or species habitat may occur within area	In feature area
<a href="#">Dermochelys coriacea</a> Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Species or species habitat known to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Disteira kingii</a> Spectacled Seasnake [1123]		Species or species habitat may occur within area	In feature area
<a href="#">Disteira major</a> Olive-headed Seasnake [1124]		Species or species habitat may occur within area	In feature area
<a href="#">Emydocephalus annulatus</a> Turtle-headed Seasnake [1125]		Species or species habitat may occur within area	In feature area
<a href="#">Ephalophis greyi</a> North-western Mangrove Seasnake [1127]		Species or species habitat may occur within area	In feature area
<a href="#">Eretmochelys imbricata</a> Hawksbill Turtle [1766]	Vulnerable	Species or species habitat known to occur within area	In feature area
<a href="#">Hydrophis elegans</a> Elegant Seasnake [1104]		Species or species habitat may occur within area	In feature area
<a href="#">Hydrophis macdowelli as Hydrophis mcdowelli</a> Small-headed Seasnake [75601]		Species or species habitat may occur within area	In feature area
<a href="#">Leioselasma czeblukovi as Hydrophis czeblukovi</a> Fine-spined Seasnake, Geometrical Seasnake [87374]		Species or species habitat may occur within area	In feature area
<a href="#">Lepidochelys olivacea</a> Olive Ridley Turtle, Pacific Ridley Turtle [1767]	Endangered	Species or species habitat likely to occur within area	In feature area
<a href="#">Natator depressus</a> Flatback Turtle [59257]	Vulnerable	Congregation or aggregation known to occur within area	In feature area
<a href="#">Pelamis platurus</a> Yellow-bellied Seasnake [1091]		Species or species habitat may occur within area	In feature area

## Whales and Other Cetaceans

[ [Resource Information](#) ]

Current Scientific Name	Status	Type of Presence	Buffer Status
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Current Scientific Name	Status	Type of Presence	Buffer Status
<b>Mammal</b>			
<a href="#">Balaenoptera acutorostrata</a> Minke Whale [33]		Species or species habitat may occur within area	In feature area
<a href="#">Balaenoptera bonaerensis</a> Antarctic Minke Whale, Dark-shoulder Minke Whale [67812]		Species or species habitat likely to occur within area	In feature area
<a href="#">Balaenoptera borealis</a> Sei Whale [34]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In feature area
<a href="#">Balaenoptera edeni</a> Bryde's Whale [35]		Species or species habitat likely to occur within area	In feature area
<a href="#">Balaenoptera musculus</a> Blue Whale [36]	Endangered	Migration route known to occur within area	In feature area
<a href="#">Balaenoptera physalus</a> Fin Whale [37]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In feature area
<a href="#">Delphinus delphis</a> Common Dolphin, Short-beaked Common Dolphin [60]		Species or species habitat may occur within area	In feature area
<a href="#">Eubalaena australis</a> Southern Right Whale [40]	Endangered	Species or species habitat may occur within area	In feature area
<a href="#">Feresa attenuata</a> Pygmy Killer Whale [61]		Species or species habitat may occur within area	In feature area
<a href="#">Globicephala macrorhynchus</a> Short-finned Pilot Whale [62]		Species or species habitat may occur within area	In feature area
<a href="#">Grampus griseus</a> Risso's Dolphin, Grampus [64]		Species or species habitat may occur within area	In feature area



Current Scientific Name	Status	Type of Presence	Buffer Status
<a href="#">Indopacetus pacificus</a> Longman's Beaked Whale [72]		Species or species habitat may occur within area	In feature area
<a href="#">Kogia breviceps</a> Pygmy Sperm Whale [57]		Species or species habitat may occur within area	In feature area
<a href="#">Kogia sima</a> Dwarf Sperm Whale [85043]		Species or species habitat may occur within area	In feature area
<a href="#">Lagenodelphis hosei</a> Fraser's Dolphin, Sarawak Dolphin [41]		Species or species habitat may occur within area	In feature area
<a href="#">Megaptera novaeangliae</a> Humpback Whale [38]		Breeding known to occur within area	In feature area
<a href="#">Mesoplodon densirostris</a> Blainville's Beaked Whale, Dense-beaked Whale [74]		Species or species habitat may occur within area	In feature area
<a href="#">Mesoplodon ginkgodens</a> Ginkgo-toothed Beaked Whale, Ginkgo-toothed Whale, Ginkgo Beaked Whale [59564]		Species or species habitat may occur within area	In feature area
<a href="#">Orcaella heinsohni</a> Australian Snubfin Dolphin [81322]		Species or species habitat may occur within area	In feature area
<a href="#">Orcinus orca</a> Killer Whale, Orca [46]		Species or species habitat may occur within area	In feature area
<a href="#">Peponocephala electra</a> Melon-headed Whale [47]		Species or species habitat may occur within area	In feature area
<a href="#">Physeter macrocephalus</a> Sperm Whale [59]		Species or species habitat may occur within area	In feature area

Current Scientific Name	Status	Type of Presence	Buffer Status
<a href="#">Pseudorca crassidens</a> False Killer Whale [48]		Species or species habitat likely to occur within area	In feature area
<a href="#">Sousa sahalensis</a> Australian Humpback Dolphin [87942]		Species or species habitat may occur within area	In feature area
<a href="#">Stenella attenuata</a> Spotted Dolphin, Pantropical Spotted Dolphin [51]		Species or species habitat may occur within area	In feature area
<a href="#">Stenella coeruleoalba</a> Striped Dolphin, Euphrosyne Dolphin [52]		Species or species habitat may occur within area	In feature area
<a href="#">Stenella longirostris</a> Long-snouted Spinner Dolphin [29]		Species or species habitat may occur within area	In feature area
<a href="#">Steno bredanensis</a> Rough-toothed Dolphin [30]		Species or species habitat may occur within area	In feature area
<a href="#">Tursiops aduncus</a> Indian Ocean Bottlenose Dolphin, Spotted Bottlenose Dolphin [68418]		Species or species habitat may occur within area	In feature area
<a href="#">Tursiops aduncus (Arafura/Timor Sea populations)</a> Spotted Bottlenose Dolphin (Arafura/Timor Sea populations) [78900]		Species or species habitat known to occur within area	In feature area
<a href="#">Tursiops truncatus s. str.</a> Bottlenose Dolphin [68417]		Species or species habitat may occur within area	In feature area
<a href="#">Ziphius cavirostris</a> Cuvier's Beaked Whale, Goose-beaked Whale [56]		Species or species habitat may occur within area	In feature area

Australian Marine Parks		[ Resource Information ]
Park Name	Zone & IUCN Categories	Buffer Status
Argo-Rowley Terrace	Multiple Use Zone (IUCN VI)	In feature area

Park Name	Zone & IUCN Categories	Buffer Status
Gascoyne	Multiple Use Zone (IUCN VI)	In feature area
Montebello	Multiple Use Zone (IUCN VI)	In feature area
Christmas Island	National Park Zone (IUCN II)	In feature area

### Habitat Critical to the Survival of Marine Turtles

Scientific Name	Behaviour	Presence	Buffer Status
Aug - Sep			
<a href="#">Natator depressus</a>			
Flatback Turtle [59257]	Nesting	Known to occur	In feature area

### Extra Information

#### EPBC Act Referrals [\[ Resource Information \]](#)

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
<a href="#">Browse to North West Shelf Development, Indian Ocean, WA</a>	2018/8319		Approval	In feature area
<a href="#">Gorgon Gas Development</a>	2003/1294		Assessment	In feature area
<a href="#">Project Highclere Cable Lay and Operation</a>	2022/09203		Completed	In feature area
<b>Controlled action</b>				
<a href="#">'Van Gogh' Petroleum Field Development</a>	2007/3213	Controlled Action	Post-Approval	In feature area
<a href="#">Construct and operate LNG &amp; domestic gas plant including onshore and offshore facilities - Wheatston</a>	2008/4469	Controlled Action	Post-Approval	In feature area
<a href="#">Develop Jansz-lo deepwater gas field in Permit Areas WA-18-R, WA-25-R and WA-26-</a>	2005/2184	Controlled Action	Post-Approval	In feature area
<a href="#">Development of Angel gas and condensate field, North West Shelf</a>	2004/1805	Controlled Action	Post-Approval	In feature area
<a href="#">Development of Browse Basin Gas Fields (Upstream)</a>	2008/4111	Controlled Action	Completed	In feature area
<a href="#">Development of Coniston/Novara fields within the Exmouth Sub-basin</a>	2011/5995	Controlled Action	Post-Approval	In feature area
<a href="#">Development of Stybarrow petroleum field incl drilling and</a>	2004/1469	Controlled Action	Post-Approval	In feature area

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
<b>Controlled action</b>				
<a href="#">facility installation</a>				
<a href="#">Echo-Yodel Production Wells</a>	2000/11	Controlled Action	Post-Approval	In feature area
<a href="#">Enfield full field development</a>	2001/257	Controlled Action	Post-Approval	In feature area
<a href="#">Equus Gas Fields Development Project, Carnarvon Basin</a>	2012/6301	Controlled Action	Completed	In feature area
<a href="#">Gorgon Gas Development 4th Train Proposal</a>	2011/5942	Controlled Action	Post-Approval	In feature area
<a href="#">Greater Enfield (Vincent) Development</a>	2005/2110	Controlled Action	Post-Approval	In feature area
<a href="#">Pluto Gas Project</a>	2005/2258	Controlled Action	Completed	In feature area
<a href="#">Pluto Gas Project Including Site B</a>	2006/2968	Controlled Action	Post-Approval	In feature area
<a href="#">Pyrenees Oil Fields Development</a>	2005/2034	Controlled Action	Post-Approval	In feature area
<a href="#">The Scarborough Project - FLNG &amp; assoc subsea infrastructure, Carnarvon Basin</a>	2013/6811	Controlled Action	Post-Approval	In feature area
<a href="#">Vincent Appraisal Well</a>	2000/22	Controlled Action	Post-Approval	In feature area
<b>Not controlled action</b>				
<a href="#">'Goodwyn A' Low Pressure Train Project</a>	2003/914	Not Controlled Action	Completed	In feature area
<a href="#">'Van Gogh' Oil Appraisal Drilling Program, Exploration Permit Area WA-155-P(1)</a>	2006/3148	Not Controlled Action	Completed	In feature area
<a href="#">Bollinger 2D Seismic Survey 200km North of North West Cape WA</a>	2004/1868	Not Controlled Action	Completed	In feature area
<a href="#">Bultaco-2, Laverda-2, Laverda-3 and Montesa-2 Appraisal Wells</a>	2000/103	Not Controlled Action	Completed	In feature area
<a href="#">Carnarvon 3D Marine Seismic Survey</a>	2004/1890	Not Controlled Action	Completed	In feature area
<a href="#">Cazadores 2D seismic survey</a>	2004/1720	Not Controlled Action	Completed	In feature area
<a href="#">Construction and operation of an unmanned sea platform and connecting pipeline to Varanus</a>	2004/1703	Not Controlled Action	Completed	In feature area

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
<b>Not controlled action</b>				
<u>Island for</u>				
<u>Controlled Source Electromagnetic Survey</u>	2007/3262	Not Controlled Action	Completed	In feature area
<u>Development of Halyard Field off the west coast of WA</u>	2010/5611	Not Controlled Action	Completed	In feature area
<u>Development of Mutineer and Exeter petroleum fields for oil production, Permit</u>	2003/1033	Not Controlled Action	Completed	In feature area
<u>Echo A Development WA-23-L, WA-24-L</u>	2005/2042	Not Controlled Action	Completed	In feature area
<u>Exploration drilling well WA-155-P(1)</u>	2003/971	Not Controlled Action	Completed	In feature area
<u>Exploration of appraisal wells</u>	2006/3065	Not Controlled Action	Completed	In feature area
<u>Exploration Well in Permit Area WA-155-P(1)</u>	2002/759	Not Controlled Action	Completed	In feature area
<u>Exploratory drilling in permit area WA-225-P</u>	2001/490	Not Controlled Action	Completed	In feature area
<u>HCA05X Macedon Experimental Survey</u>	2004/1926	Not Controlled Action	Completed	In feature area
<u>Hess Exploration Drilling Programme</u>	2007/3566	Not Controlled Action	Completed	In feature area
<u>Jansz-2 and 3 Appraisal Wells</u>	2002/754	Not Controlled Action	Completed	In feature area
<u>Klammer 2D Seismic Survey</u>	2002/868	Not Controlled Action	Completed	In feature area
<u>Maia-Gaea Exploration wells</u>	2000/17	Not Controlled Action	Completed	In feature area
<u>Montesa-1 and Bultaco-1 Exploration Wells</u>	2000/102	Not Controlled Action	Completed	In feature area
<u>North Rankin B gas compression facility</u>	2005/2500	Not Controlled Action	Completed	In feature area
<u>Pipeline System Modifications Project</u>	2000/3	Not Controlled Action	Completed	In feature area
<u>Project Highclere Geophysical Survey</u>	2021/9023	Not Controlled Action	Completed	In feature area
<u>Searipple gas and condensate field development</u>	2000/89	Not Controlled Action	Completed	In feature area

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
<b>Not controlled action</b>				
<a href="#">Subsea Gas Pipeline From Stybarrow Field to Griffin Venture Gas Export Pipeline</a>	2005/2033	Not Controlled Action	Completed	In feature area
<a href="#">sub-sea tieback of Perseus field wells</a>	2004/1326	Not Controlled Action	Completed	In feature area
<a href="#">Telstra North Rankin Spur Fibre Optic Cable</a>	2016/7836	Not Controlled Action	Completed	In feature area
<a href="#">To construct and operate an offshore submarine fibre optic cable, WA</a>	2014/7373	Not Controlled Action	Completed	In feature area
<a href="#">Western Flank Gas Development</a>	2005/2464	Not Controlled Action	Completed	In feature area
<a href="#">Wheatstone 3D seismic survey, 70km north of Barrow Island</a>	2004/1761	Not Controlled Action	Completed	In feature area
<b>Not controlled action (particular manner)</b>				
<a href="#">'Kate' 3D marine seismic survey, exploration permits WA-320-P and WA-345-P, 60km</a>	2005/2037	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">'Tourmaline' 2D marine seismic survey, permit areas WA-323-P, WA-330-P and WA-32</a>	2005/2282	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">"Leanne" offshore 3D seismic exploration, WA-356-P</a>	2005/1938	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">2D marine seismic survey</a>	2012/6296	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">2D Seismic Survey Permit Area WA-352-P</a>	2008/4628	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">3D marine seismic survey</a>	2008/4281	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">3D Marine Seismic Survey (WA-482-P, WA-363-P), WA</a>	2013/6761	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">3D Marine Seismic Survey in Permit Areas WA-15-R, WA-18-R,</a>	2003/1271	Not Controlled Action	Post-Approval	In feature area

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
<b>Not controlled action (particular manner)</b>				
<a href="#">WA-205-P, WA-253-P, WA-267-P and WA-268-P</a>		(Particular Manner)		
<a href="#">3D Marine Seismic Survey in WA 457-P &amp; WA 458-P, North West Shelf, offshore WA</a>	2013/6862	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">3D marine seismic survey over petroleum title WA-268-P</a>	2007/3458	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">3D Marine Seismic Surveys - Contos CT-13 &amp; Supertubes CT-13, offshore WA</a>	2013/6901	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">3D seismic survey</a>	2006/2715	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">3D Seismic Survey, WA</a>	2008/4428	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">3D seismic survey</a>	2006/2781	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Agrippina 3D Seismic Marine Survey</a>	2009/5212	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Apache Northwest Shelf Van Gogh Field Appraisal Drilling Program</a>	2007/3495	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Aperio 3D Marine Seismic Survey, WA</a>	2012/6648	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Artemis-1 Drilling Program (WA-360-P)</a>	2010/5432	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Australia to Singapore Fibre Optic Submarine Cable System</a>	2011/6127	Not Controlled Action (Particular Manner)	Post-Approval	In feature area

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
<b>Not controlled action (particular manner)</b>				
<a href="#">Babylon 3D Marine Seismic Survey, Commonwealth Waters, nr Exmouth WA</a>	2013/7081	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Balnaves Condensate Field Development</a>	2011/6188	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Bonaventure 3D seismic survey</a>	2006/2514	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Cable Seismic Exploration Permit areas WA-323-P and WA-330-P</a>	2008/4227	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">CGGVERITAS 2010 2D Seismic Survey</a>	2010/5714	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Charon 3D Marine Seismic Survey</a>	2007/3477	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Cue Seismic Survey within WA-359-P, WA-361-P and WA-360-P</a>	2007/3647	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">CVG 3D Marine Seismic Survey</a>	2012/6654	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">DAVROS MC 3D marine seismic survey northwaet of Dampier, WA</a>	2013/7092	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Deep Water Drilling Program</a>	2010/5532	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Deep Water Northwest Shelf 2D Seismic Survey</a>	2007/3260	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Demeter 3D Seismic Survey, off Dampier, WA</a>	2002/900	Not Controlled Action (Particular	Post-Approval	In feature area



Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
<b>Not controlled action (particular manner)</b>				
		Manner)		
<a href="#">Draeck 3D Marine Seismic Survey, WA-205-P</a>	2006/3067	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Drilling 35-40 offshore exploration wells in deep water</a>	2008/4461	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Eendracht Multi-Client 3D Marine Seismic Survey</a>	2009/4749	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Enfield M3 &amp; Vincent 4D Marine Seismic Surveys</a>	2008/3981	Not Controlled Action (Particular Manner)	Completed	In feature area
<a href="#">Enfield M3 4D, Vincent 4D &amp; 4D Line Test Marine Seismic Surveys</a>	2008/4122	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Enfield M4 4D Marine Seismic Survey</a>	2008/4558	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Enfield oilfield 3D Seismic Survey</a>	2006/3132	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Exmouth West 2D Marine Seismic Survey</a>	2008/4132	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Exploration drilling of Zeus-1 well</a>	2008/4351	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Fletcher-Finucane Development, WA26-L and WA191-P</a>	2011/6123	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Foxhound 3D Non-Exclusive Marine Seismic Survey</a>	2009/4703	Not Controlled Action (Particular Manner)	Post-Approval	In feature area

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
<b>Not controlled action (particular manner)</b>				
<a href="#">Geco Eagle 3D Marine Seismic Survey</a>	2008/3958	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Glencoe 3D Marine Seismic Survey WA-390-P</a>	2007/3684	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Greater Western Flank Phase 1 gas Development</a>	2011/5980	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Guacamole 2D Marine Seismic Survey</a>	2008/4381	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Harmony 3D Marine Seismic Survey</a>	2012/6699	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Honeycombs MC3D Marine Seismic Survey</a>	2012/6368	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Huzzas MC3D Marine Seismic Survey (HZ-13) Carnarvon Basin, offshore WA</a>	2013/7003	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">INDIGO Marine Cable Route Survey (INDIGO)</a>	2017/7996	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">John Ross &amp; Rosella Off Bottom Cable Seismic Exploration Program</a>	2008/3966	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Judo Marine 3D Seismic Survey within and adjacent to WA-412-P</a>	2009/4801	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Judo Marine 3D Seismic Survey within and adjacent to WA-412-P</a>	2008/4630	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Julimar Brunello Gas Development Project</a>	2011/5936	Not Controlled Action (Particular	Post-Approval	In feature area

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
<b>Not controlled action (particular manner)</b>				
		Manner)		
<a href="#">Kingtree &amp; Ironstone-1 Exploration Wells</a>	2011/5935	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Klimt 2D Marine Seismic Survey</a>	2007/3856	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Laverda 3D Marine Seismic Survey and Vincent M1 4D Marine Seismic Survey</a>	2010/5415	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Leopard 2D marine seismic survey</a>	2005/2290	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Lion 2D Marine Seismic Survey</a>	2007/3777	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Marine reconnaissance survey</a>	2008/4466	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Moosehead 2D seismic survey within permit WA-192-P</a>	2005/2167	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Munmorah 2D seismic survey within permits WA-308/9-P</a>	2003/970	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Offshore Canning Multi Client 2D Marine Seismic Survey</a>	2010/5393	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Offshore Drilling Campaign</a>	2011/5830	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Orcus 3D Marine Seismic Survey in WA-450-P</a>	2010/5723	Not Controlled Action (Particular Manner)	Post-Approval	In feature area

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
<b>Not controlled action (particular manner)</b>				
<a href="#">Osprey and Dionysus Marine Seismic Survey</a>	2011/6215	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Pomodoro 3D Marine Seismic Survey in WA-426-P and WA-427-P</a>	2010/5472	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Pyrenees-Macedon 3D marine seismic survey</a>	2005/2325	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Rose 3D Seismic Program</a>	2008/4239	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Rydal-1 Petroleum Exploration Well, WA</a>	2012/6522	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Santos Winchester three dimensional seismic survey - WA-323-P &amp; WA-330-P</a>	2011/6107	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Skorpion Marine Seismic Survey WA</a>	2001/416	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Sovereign 3D Marine Seismic Survey</a>	2011/5861	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Stybarrow 4D Marine Seismic Survey</a>	2011/5810	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Stybarrow Baseline 4D marine seismic survey</a>	2008/4530	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Tidepole Maz 3D Seismic Survey Campaign</a>	2007/3706	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Tortilla 2D Seismic Survey, WA</a>	2011/6110	Not Controlled Action (Particular	Post-Approval	In feature area

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
<b>Not controlled action (particular manner)</b>				
		Manner)		
<a href="#">Triton 3D Marine Seismic Survey, WA-2-R and WA-3-R</a>	2006/2609	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Undertake a three dimensional marine seismic survey</a>	2010/5679	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Vincent M1 and Enfield M5 4D Marine Seismic Survey</a>	2010/5720	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Warramunga Non-Inclusive 3D Seismic Survey</a>	2008/4553	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">West Anchor 3D Marine Seismic Survey</a>	2008/4507	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">West Panaeus 3D seismic survey</a>	2006/3141	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Westralia SPAN Marine Seismic Survey, WA &amp; NT</a>	2012/6463	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Wheatstone 3D MAZ Marine Seismic Survey</a>	2011/6058	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Wheatstone Iago Appraisal Well Drilling</a>	2007/3941	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Wheatstone Iago Appraisal Well Drilling</a>	2008/4134	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<b>Referral decision</b>				
<a href="#">3D Seismic Survey</a>	2008/4219	Referral Decision	Completed	In feature area
<a href="#">Bianchi 3D Marine Seismic Survey, Carnavon Basin, WA</a>	2013/7078	Referral Decision	Completed	In feature area

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
<b>Referral decision</b>				
<a href="#">CVG 3D Marine Seismic Survey</a>	2012/6270	Referral Decision	Completed	In feature area
<a href="#">Enfield 4D Marine Seismic Surveys, Production Permit WA-28-L</a>	2005/2370	Referral Decision	Completed	In feature area
<a href="#">Rose 3D Seismic acquisition survey</a>	2008/4220	Referral Decision	Completed	In feature area
<a href="#">Stybarrow Baseline 4D Marine Seismic Survey (Permit Areas WA-255-P, WA-32-L, WA-</a>	2008/4165	Referral Decision	Completed	In feature area

## 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	Buffer Status
<a href="#">Ancient coastline at 125 m depth contour</a>	North-west	In feature area
<a href="#">Canyons linking the Cuvier Abyssal Plain and the Cape Range Peninsula</a>	North-west	In feature area
<a href="#">Continental Slope Demersal Fish Communities</a>	North-west	In feature area
<a href="#">Exmouth Plateau</a>	North-west	In feature area
<a href="#">Glomar Shoals</a>	North-west	In feature area

## Biologically Important Areas

Scientific Name	Behaviour	Presence	Buffer Status
<b>Marine Turtles</b>			
<a href="#">Chelonia mydas</a> Green Turtle [1765]	Internesting buffer	Known to occur	In feature area
<a href="#">Eretmochelys imbricata</a> Hawksbill Turtle [1766]	Internesting buffer	Known to occur	In feature area
<a href="#">Natator depressus</a> Flatback Turtle [59257]	Internesting buffer	Known to occur	In feature area
<b>Seabirds</b>			
<a href="#">Ardena pacifica</a> Wedge-tailed Shearwater [84292]	Breeding	Known to occur	In feature area

## Sharks

Scientific Name	Behaviour	Presence	Buffer Status
<a href="#">Rhincodon typus</a> Whale Shark [66680]	Foraging	Known to occur	In feature area
<b>Whales</b>			
<a href="#">Balaenoptera musculus brevipoda</a> Pygmy Blue Whale [81317]	Distribution	Known to occur	In feature area
<a href="#">Balaenoptera musculus brevipoda</a> Pygmy Blue Whale [81317]	Foraging	Known to occur	In feature area
<a href="#">Balaenoptera musculus brevipoda</a> Pygmy Blue Whale [81317]	Migration	Known to occur	In feature area
<a href="#">Megaptera novaeangliae</a> Humpback Whale [38]	Migration (north and south)	Known to occur	In feature area

# Caveat

## 1 PURPOSE

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

The report contains the mapped locations of:

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

## 2 DISCLAIMER

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

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

## 3 DATA SOURCES

Threatened ecological communities

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

Threatened, migratory and marine species

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

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

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

## 4 LIMITATIONS

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

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

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

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

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

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



# Acknowledgements

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

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

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

Please feel free to provide feedback via the [Contact us](#) page.

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# 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.

POLYGON 4

[Summary](#)

[Details](#)

[Matters of NES](#)

[Other Matters Protected by the EPBC Act](#)

[Extra Information](#)

[Caveat](#)

[Acknowledgements](#)

Report created: 24-Jul-2023

# 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 [Administrative Guidelines on Significance](#).

<a href="#">World Heritage Properties:</a>	None
<a href="#">National Heritage Places:</a>	None
<a href="#">Wetlands of International Importance (Ramsar)</a>	3
<a href="#">Great Barrier Reef Marine Park:</a>	None
<a href="#">Commonwealth Marine Area:</a>	4
<a href="#">Listed Threatened Ecological Communities:</a>	None
<a href="#">Listed Threatened Species:</a>	33
<a href="#">Listed Migratory Species:</a>	41

## 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 [permit](#) 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.

<a href="#">Commonwealth Lands:</a>	107
<a href="#">Commonwealth Heritage Places:</a>	31
<a href="#">Listed Marine Species:</a>	63
<a href="#">Whales and Other Cetaceans:</a>	26
<a href="#">Critical Habitats:</a>	None
<a href="#">Commonwealth Reserves Terrestrial:</a>	2
<a href="#">Australian Marine Parks:</a>	6
<a href="#">Habitat Critical to the Survival of Marine Turtles:</a>	1

## Extra Information

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

<a href="#">State and Territory Reserves:</a>	None
<a href="#">Regional Forest Agreements:</a>	None
<a href="#">Nationally Important Wetlands:</a>	3
<a href="#">EPBC Act Referrals:</a>	93
<a href="#">Key Ecological Features (Marine):</a>	None
<a href="#">Biologically Important Areas:</a>	None
<a href="#">Bioregional Assessments:</a>	None
<a href="#">Geological and Bioregional Assessments:</a>	None

# Details

## Matters of National Environmental Significance

### Wetlands of International Importance (Ramsar Wetlands) [\[ Resource Information \]](#)

Ramsar Site Name	Proximity	Buffer Status
<a href="#">Hosnies spring</a>	Within Ramsar site	In feature area
<a href="#">Pulu keeling national park</a>	Within Ramsar site	In feature area
<a href="#">The dales</a>	Within Ramsar site	In feature area

### 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	Buffer Status
EEZ and Territorial Sea	In feature area
EEZ and Territorial Sea	In feature area
Extended Continental Shelf	In feature area
Extended Continental Shelf	In feature area

### 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	Buffer Status
<b>BIRD</b>			
<a href="#">Accipiter hiogaster natalis</a> Christmas Island Goshawk [82408]	Endangered	Species or species habitat known to occur within area	In feature area
<a href="#">Calidris canutus</a> Red Knot, Knot [855]	Endangered	Species or species habitat may occur within area	In feature area
<a href="#">Calidris ferruginea</a> Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Chalcophaps indica natalis</a> Christmas Island Emerald Dove, Emerald Dove (Christmas Island) [67030]	Endangered	Species or species habitat known to occur within area	In feature area
<a href="#">Charadrius leschenaultii</a> Greater Sand Plover, Large Sand Plover [877]	Vulnerable	Species or species habitat known to occur within area	In feature area
<a href="#">Fregata andrewsi</a> Christmas Island Frigatebird, Andrew's Frigatebird [1011]	Endangered	Breeding known to occur within area	In feature area
<a href="#">Hypotaenidia philippensis andrewsi</a> Buff-banded Rail (Cocos (Keeling) Islands), Ayam Hutan [88994]	Endangered	Species or species habitat known to occur within area	In feature area
<a href="#">Ninox natalis</a> Christmas Island Hawk-Owl, Christmas Boobook [66671]	Vulnerable	Species or species habitat known to occur within area	In feature area
<a href="#">Papasula abbotti</a> Abbott's Booby [59297]	Endangered	Species or species habitat known to occur within area	In feature area
<a href="#">Phaethon lepturus fulvus</a> Christmas Island White-tailed Tropicbird, Golden Bosunbird [26021]	Endangered	Species or species habitat known to occur within area	In feature area
<a href="#">Turdus poliocephalus erythropleurus</a> Christmas Island Thrush [67122]	Endangered	Species or species habitat likely to occur within area	In feature area
<b>FISH</b>			
<a href="#">Thunnus maccoyii</a> Southern Bluefin Tuna [69402]	Conservation Dependent	Breeding known to occur within area	In feature area
<b>MAMMAL</b>			
<a href="#">Balaenoptera borealis</a> Sei Whale [34]	Vulnerable	Species or species habitat likely to occur within area	In feature area
<a href="#">Balaenoptera musculus</a> Blue Whale [36]	Endangered	Species or species habitat likely to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Balaenoptera physalus</a> Fin Whale [37]	Vulnerable	Species or species habitat likely to occur within area	In feature area
<a href="#">Crocidura trichura</a> Christmas Island Shrew [86568]	Critically Endangered	Species or species habitat likely to occur within area	In feature area
<a href="#">Pteropus natalis</a> Christmas Island Flying-fox, Christmas Island Fruit-bat [87611]	Critically Endangered	Species or species habitat known to occur within area	In feature area
<b>PLANT</b>			
<a href="#">Asplenium listeri</a> Christmas Island Spleenwort [65865]	Critically Endangered	Species or species habitat known to occur within area	In feature area
<a href="#">Pneumatopteris truncata</a> fern [68812]	Critically Endangered	Species or species habitat known to occur within area	In feature area
<a href="#">Tectaria devexa</a> Cave Fern [14767]	Endangered	Species or species habitat likely to occur within area	In feature area
<b>REPTILE</b>			
<a href="#">Caretta caretta</a> Loggerhead Turtle [1763]	Endangered	Species or species habitat likely to occur within area	In feature area
<a href="#">Chelonia mydas</a> Green Turtle [1765]	Vulnerable	Species or species habitat likely to occur within area	In feature area
<a href="#">Cryptoblepharus egeriae</a> Christmas Island Blue-tailed Skink, Blue-tailed Snake-eyed Skink [1526]	Critically Endangered	Species or species habitat likely to occur within area	In feature area
<a href="#">Cyrtodactylus sadleiri</a> Christmas Island Giant Gecko [86865]	Endangered	Species or species habitat known to occur within area	In feature area
<a href="#">Dermochelys coriacea</a> Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Species or species habitat likely to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Eretmochelys imbricata</a> Hawksbill Turtle [1766]	Vulnerable	Species or species habitat likely to occur within area	In feature area
<a href="#">Lepidochelys olivacea</a> Olive Ridley Turtle, Pacific Ridley Turtle [1767]	Endangered	Species or species habitat likely to occur within area	In feature area
<a href="#">Lepidodactylus listeri</a> Christmas Island Gecko, Lister's Gecko [1711]	Critically Endangered	Species or species habitat known to occur within area	In feature area
<a href="#">Natator depressus</a> Flatback Turtle [59257]	Vulnerable	Species or species habitat likely to occur within area	In feature area
<a href="#">Ramphotyphlops exocoeti</a> Christmas Island Blind Snake, Christmas Island Pink Blind Snake [1262]	Vulnerable	Species or species habitat likely to occur within area	In feature area

## SHARK

<a href="#">Carcharodon carcharias</a> White Shark, Great White Shark [64470]	Vulnerable	Species or species habitat may occur within area	In feature area
<a href="#">Rhincodon typus</a> Whale Shark [66680]	Vulnerable	Species or species habitat may occur within area	In feature area
<a href="#">Sphyrna lewini</a> Scalloped Hammerhead [85267]	Conservation Dependent	Species or species habitat likely to occur within area	In feature area

## Listed Migratory Species

[ [Resource Information](#) ]

Scientific Name	Threatened Category	Presence Text	Buffer Status
<b>Migratory Marine Birds</b>			
<a href="#">Anous stolidus</a> Common Noddy [825]		Species or species habitat likely to occur within area	In feature area
<a href="#">Ardenna pacifica</a> Wedge-tailed Shearwater [84292]		Breeding known to occur within area	In feature area
<a href="#">Fregata andrewsi</a> Christmas Island Frigatebird, Andrew's Frigatebird [1011]	Endangered	Breeding known to occur within area	In feature area



Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Fregata ariel</a> Lesser Frigatebird, Least Frigatebird [1012]		Breeding known to occur within area	In feature area
<a href="#">Fregata minor</a> Great Frigatebird, Greater Frigatebird [1013]		Breeding known to occur within area	In feature area
<a href="#">Phaethon lepturus</a> White-tailed Tropicbird [1014]		Breeding known to occur within area	In feature area
<a href="#">Phaethon rubricauda</a> Red-tailed Tropicbird [994]		Breeding known to occur within area	In feature area
<a href="#">Sula dactylatra</a> Masked Booby [1021]		Breeding known to occur within area	In feature area
<a href="#">Sula leucogaster</a> Brown Booby [1022]		Breeding known to occur within area	In feature area
<a href="#">Sula sula</a> Red-footed Booby [1023]		Breeding known to occur within area	In feature area
<b>Migratory Marine Species</b>			
<a href="#">Balaenoptera bonaerensis</a> Antarctic Minke Whale, Dark-shoulder Minke Whale [67812]		Species or species habitat likely to occur within area	In feature area
<a href="#">Balaenoptera borealis</a> Sei Whale [34]	Vulnerable	Species or species habitat likely to occur within area	In feature area
<a href="#">Balaenoptera edeni</a> Bryde's Whale [35]		Species or species habitat likely to occur within area	In feature area
<a href="#">Balaenoptera musculus</a> Blue Whale [36]	Endangered	Species or species habitat likely to occur within area	In feature area
<a href="#">Balaenoptera physalus</a> Fin Whale [37]	Vulnerable	Species or species habitat likely to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Carcharhinus longimanus</a> Oceanic Whitetip Shark [84108]		Species or species habitat may occur within area	In feature area
<a href="#">Carcharodon carcharias</a> White Shark, Great White Shark [64470]	Vulnerable	Species or species habitat may occur within area	In feature area
<a href="#">Caretta caretta</a> Loggerhead Turtle [1763]	Endangered	Species or species habitat likely to occur within area	In feature area
<a href="#">Chelonia mydas</a> Green Turtle [1765]	Vulnerable	Species or species habitat likely to occur within area	In feature area
<a href="#">Dermochelys coriacea</a> Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Species or species habitat likely to occur within area	In feature area
<a href="#">Eretmochelys imbricata</a> Hawksbill Turtle [1766]	Vulnerable	Species or species habitat likely to occur within area	In feature area
<a href="#">Isurus oxyrinchus</a> Shortfin Mako, Mako Shark [79073]		Species or species habitat likely to occur within area	In feature area
<a href="#">Isurus paucus</a> Longfin Mako [82947]		Species or species habitat likely to occur within area	In feature area
<a href="#">Lepidochelys olivacea</a> Olive Ridley Turtle, Pacific Ridley Turtle [1767]	Endangered	Species or species habitat likely to occur within area	In feature area
<a href="#">Megaptera novaeangliae</a> Humpback Whale [38]		Species or species habitat may occur within area	In feature area
<a href="#">Mobula birostris as Manta birostris</a> Giant Manta Ray [90034]		Species or species habitat known to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Natator depressus</a> Flatback Turtle [59257]	Vulnerable	Species or species habitat likely to occur within area	In feature area
<a href="#">Orcinus orca</a> Killer Whale, Orca [46]		Species or species habitat may occur within area	In feature area
<a href="#">Physeter macrocephalus</a> Sperm Whale [59]		Species or species habitat may occur within area	In feature area
<a href="#">Rhincodon typus</a> Whale Shark [66680]	Vulnerable	Species or species habitat may occur within area	In feature area
<b>Migratory Terrestrial Species</b>			
<a href="#">Cecropis daurica</a> Red-rumped Swallow [80610]		Species or species habitat known to occur within area	In feature area
<a href="#">Cuculus optatus</a> Oriental Cuckoo, Horsfield's Cuckoo [86651]		Species or species habitat known to occur within area	In feature area
<a href="#">Hirundo rustica</a> Barn Swallow [662]		Species or species habitat known to occur within area	In feature area
<a href="#">Motacilla cinerea</a> Grey Wagtail [642]		Species or species habitat known to occur within area	In feature area
<a href="#">Motacilla flava</a> Yellow Wagtail [644]		Species or species habitat known to occur within area	In feature area
<b>Migratory Wetlands Species</b>			
<a href="#">Actitis hypoleucos</a> Common Sandpiper [59309]		Species or species habitat known to occur within area	In feature area
<a href="#">Calidris acuminata</a> Sharp-tailed Sandpiper [874]		Species or species habitat known to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Calidris canutus</a> Red Knot, Knot [855]	Endangered	Species or species habitat may occur within area	In feature area
<a href="#">Calidris ferruginea</a> Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area	In feature area
<a href="#">Calidris melanotos</a> Pectoral Sandpiper [858]		Species or species habitat may occur within area	In feature area
<a href="#">Charadrius leschenaultii</a> Greater Sand Plover, Large Sand Plover [877]	Vulnerable	Species or species habitat known to occur within area	In feature area

## Other Matters Protected by the EPBC Act

### Commonwealth Lands [\[ Resource Information \]](#)

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

Commonwealth Land Name	State	Buffer Status
<b>Environment and Heritage</b>		
Commonwealth Land - Christmas Island National Park [94103]	CI	In feature area
Commonwealth Land - Christmas Island National Park [94105]	CI	In feature area
Commonwealth Land - Christmas Island National Park [94104]	CI	In feature area
Commonwealth Land - Christmas Island National Park [94101]	CI	In feature area
Commonwealth Land - Christmas Island National Park [94102]	CI	In feature area
Commonwealth Land - Pulu Keeling National Park [95001]	CKI	In feature area
Commonwealth Land - Pulu Keeling National Park [95002]	CKI	In feature area
<b>Unknown</b>		
Commonwealth Land - [96016]	CKI	In feature area
Commonwealth Land - [96015]	CKI	In feature area
Commonwealth Land - [96014]	CKI	In feature area
Commonwealth Land - [94248]	CI	In feature area

Commonwealth Land Name	State	Buffer Status
Commonwealth Land - [94249]	CI	In feature area
Commonwealth Land - [94244]	CI	In feature area
Commonwealth Land - [94246]	CI	In feature area
Commonwealth Land - [94245]	CI	In feature area
Commonwealth Land - [94240]	CI	In feature area
Commonwealth Land - [94247]	CI	In feature area
Commonwealth Land - [94219]	CI	In feature area
Commonwealth Land - [94214]	CI	In feature area
Commonwealth Land - [94215]	CI	In feature area
Commonwealth Land - [94216]	CI	In feature area
Commonwealth Land - [94218]	CI	In feature area
Commonwealth Land - [94274]	CI	In feature area
Commonwealth Land - [94217]	CI	In feature area
Commonwealth Land - [96019]	CKI	In feature area
Commonwealth Land - [94210]	CI	In feature area
Commonwealth Land - [96018]	CKI	In feature area
Commonwealth Land - [94211]	CI	In feature area
Commonwealth Land - [94277]	CI	In feature area
Commonwealth Land - [94212]	CI	In feature area
Commonwealth Land - [94276]	CI	In feature area
Commonwealth Land - [96010]	CKI	In feature area
Commonwealth Land - [96011]	CKI	In feature area
Commonwealth Land - [96012]	CKI	In feature area
Commonwealth Land - [96013]	CKI	In feature area
Commonwealth Land - [96017]	CKI	In feature area
Commonwealth Land - [94209]	CI	In feature area
Commonwealth Land - [94208]	CI	In feature area

Commonwealth Land Name	State	Buffer Status
Commonwealth Land - [94213]	CI	In feature area
Commonwealth Land - [94205]	CI	In feature area
Commonwealth Land - [94204]	CI	In feature area
Commonwealth Land - [94207]	CI	In feature area
Commonwealth Land - [94206]	CI	In feature area
Commonwealth Land - [94201]	CI	In feature area
Commonwealth Land - [96005]	CKI	In feature area
Commonwealth Land - [96006]	CKI	In feature area
Commonwealth Land - [94203]	CI	In feature area
Commonwealth Land - [96007]	CKI	In feature area
Commonwealth Land - [94202]	CI	In feature area
Commonwealth Land - [94279]	CI	In feature area
Commonwealth Land - [94275]	CI	In feature area
Commonwealth Land - [94272]	CI	In feature area
Commonwealth Land - [94271]	CI	In feature area
Commonwealth Land - [94278]	CI	In feature area
Commonwealth Land - [94273]	CI	In feature area
Commonwealth Land - [94270]	CI	In feature area
Commonwealth Land - [94280]	CI	In feature area
Commonwealth Land - [94232]	CI	In feature area
Commonwealth Land - [94233]	CI	In feature area
Commonwealth Land - [94230]	CI	In feature area
Commonwealth Land - [94231]	CI	In feature area
Commonwealth Land - [94236]	CI	In feature area
Commonwealth Land - [94237]	CI	In feature area
Commonwealth Land - [94234]	CI	In feature area
Commonwealth Land - [94235]	CI	In feature area

Commonwealth Land Name	State	Buffer Status
Commonwealth Land - [94261]	CI	In feature area
Commonwealth Land - [94238]	CI	In feature area
Commonwealth Land - [94268]	CI	In feature area
Commonwealth Land - [94260]	CI	In feature area
Commonwealth Land - [96004]	CKI	In feature area
Commonwealth Land - [96003]	CKI	In feature area
Commonwealth Land - [96002]	CKI	In feature area
Commonwealth Land - [96001]	CKI	In feature area
Commonwealth Land - [96009]	CKI	In feature area
Commonwealth Land - [96008]	CKI	In feature area
Commonwealth Land - [94269]	CI	In feature area
Commonwealth Land - [94243]	CI	In feature area
Commonwealth Land - [94242]	CI	In feature area
Commonwealth Land - [94241]	CI	In feature area
Commonwealth Land - [94229]	CI	In feature area
Commonwealth Land - [94228]	CI	In feature area
Commonwealth Land - [94266]	CI	In feature area
Commonwealth Land - [94267]	CI	In feature area
Commonwealth Land - [94262]	CI	In feature area
Commonwealth Land - [94263]	CI	In feature area
Commonwealth Land - [94264]	CI	In feature area
Commonwealth Land - [94265]	CI	In feature area
Commonwealth Land - [94251]	CI	In feature area
Commonwealth Land - [94250]	CI	In feature area
Commonwealth Land - [94255]	CI	In feature area
Commonwealth Land - [94254]	CI	In feature area
Commonwealth Land - [94253]	CI	In feature area

Commonwealth Land Name	State	Buffer Status
Commonwealth Land - [94252]	CI	In feature area
Commonwealth Land - [94239]	CI	In feature area
Commonwealth Land - [94222]	CI	In feature area
Commonwealth Land - [94225]	CI	In feature area
Commonwealth Land - [96020]	CKI	In feature area
Commonwealth Land - [94227]	CI	In feature area
Commonwealth Land - [94224]	CI	In feature area
Commonwealth Land - [94221]	CI	In feature area
Commonwealth Land - [94226]	CI	In feature area
Commonwealth Land - [94223]	CI	In feature area
Commonwealth Land - [94220]	CI	In feature area
Commonwealth Land - [94256]	CI	In feature area
Commonwealth Land - [94257]	CI	In feature area
Commonwealth Land - [94258]	CI	In feature area
Commonwealth Land - [94259]	CI	In feature area

Commonwealth Heritage Places			[ Resource Information ]
Name	State	Status	Buffer Status
Historic			
<a href="#">Administration Building Forecourt</a>	EXT	Listed place	In feature area
<a href="#">Administrators House Precinct</a>	EXT	Listed place	In feature area
<a href="#">Bungalow 702</a>	EXT	Listed place	In feature area
<a href="#">Captain Ballards Grave</a>	EXT	Listed place	In feature area
<a href="#">Direction Island (DI) Houses</a>	EXT	Listed place	In feature area
<a href="#">Drumsite Industrial Area</a>	EXT	Listed place	In feature area
<a href="#">Early Settlers Graves</a>	EXT	Listed place	In feature area
<a href="#">Government House</a>	EXT	Listed place	In feature area
<a href="#">Home Island Cemetery</a>	EXT	Listed place	In feature area
<a href="#">Home Island Foreshore</a>	EXT	Listed place	In feature area



Name	State	Status	Buffer Status
<a href="#">Home Island Industrial Precinct</a>	EXT	Listed place	In feature area
<a href="#">Industrial and Administrative Group</a>	EXT	Listed place	In feature area
<a href="#">Malay Kampong Group</a>	EXT	Listed place	In feature area
<a href="#">Malay Kampong Precinct</a>	EXT	Listed place	In feature area
<a href="#">Oceania House and Surrounds</a>	EXT	Listed place	In feature area
<a href="#">Old Co-op Shop (Canteen)</a>	EXT	Listed place	In feature area
<a href="#">Phosphate Hill Historic Area</a>	EXT	Listed place	In feature area
<a href="#">Poon Saan Group</a>	EXT	Listed place	In feature area
<a href="#">Qantas Huts (former)</a>	EXT	Listed place	In feature area
<a href="#">RAAF Memorial</a>	EXT	Listed place	In feature area
<a href="#">Settlement Christmas Island</a>	EXT	Listed place	In feature area
<a href="#">Six Inch Guns</a>	EXT	Listed place	In feature area
<a href="#">Slipway and Tank</a>	EXT	Listed place	In feature area
<a href="#">South Point Settlement Remains</a>	EXT	Listed place	In feature area
<a href="#">Type 2 Residences</a>	EXT	Listed place	In feature area
<a href="#">Type T Houses Precinct</a>	EXT	Listed place	In feature area
<a href="#">West Island Elevated Houses</a>	EXT	Listed place	In feature area
<a href="#">West Island Housing Precinct</a>	EXT	Listed place	In feature area
<a href="#">West Island Mosque</a>	EXT	Listed place	In feature area
<b>Natural</b>			
<a href="#">Christmas Island Natural Areas</a>	EXT	Listed place	In feature area
<a href="#">North Keeling Island</a>	EXT	Listed place	In feature area
<b>Listed Marine Species</b>			<b>[ Resource Information ]</b>
Scientific Name	Threatened Category	Presence Text	Buffer Status
<b>Bird</b>			
<a href="#">Actitis hypoleucos</a>		Species or species habitat known to occur within area	In feature area
Common Sandpiper [59309]			

Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Anous stolidus</a> Common Noddy [825]		Species or species habitat likely to occur within area	In feature area
<a href="#">Ardenna pacifica as Puffinus pacificus</a> Wedge-tailed Shearwater [84292]		Breeding known to occur within area	In feature area
<a href="#">Calidris acuminata</a> Sharp-tailed Sandpiper [874]		Species or species habitat known to occur within area	In feature area
<a href="#">Calidris canutus</a> Red Knot, Knot [855]	Endangered	Species or species habitat may occur within area overfly marine area	In feature area
<a href="#">Calidris ferruginea</a> Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area overfly marine area	In feature area
<a href="#">Calidris melanotos</a> Pectoral Sandpiper [858]		Species or species habitat may occur within area overfly marine area	In feature area
<a href="#">Cecropis daurica as Hirundo daurica</a> Red-rumped Swallow [80610]		Species or species habitat known to occur within area overfly marine area	In feature area
<a href="#">Charadrius leschenaultii</a> Greater Sand Plover, Large Sand Plover [877]	Vulnerable	Species or species habitat known to occur within area	In feature area
<a href="#">Fregata andrewsi</a> Christmas Island Frigatebird, Andrew's Frigatebird [1011]	Endangered	Breeding known to occur within area	In feature area
<a href="#">Fregata ariel</a> Lesser Frigatebird, Least Frigatebird [1012]		Breeding known to occur within area	In feature area
<a href="#">Fregata minor</a> Great Frigatebird, Greater Frigatebird [1013]		Breeding known to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Hirundo rustica</a> Barn Swallow [662]		Species or species habitat known to occur within area overfly marine area	In feature area
<a href="#">Motacilla cinerea</a> Grey Wagtail [642]		Species or species habitat known to occur within area overfly marine area	In feature area
<a href="#">Motacilla flava</a> Yellow Wagtail [644]		Species or species habitat known to occur within area overfly marine area	In feature area
<a href="#">Papasula abbotti</a> Abbott's Booby [59297]	Endangered	Species or species habitat known to occur within area	In feature area
<a href="#">Phaethon lepturus</a> White-tailed Tropicbird [1014]		Breeding known to occur within area	In feature area
<a href="#">Phaethon lepturus fulvus</a> Christmas Island White-tailed Tropicbird, Golden Bosunbird [26021]	Endangered	Species or species habitat known to occur within area	In feature area
<a href="#">Phaethon rubricauda</a> Red-tailed Tropicbird [994]		Breeding known to occur within area	In feature area
<a href="#">Sula dactylatra</a> Masked Booby [1021]		Breeding known to occur within area	In feature area
<a href="#">Sula leucogaster</a> Brown Booby [1022]		Breeding known to occur within area	In feature area
<a href="#">Sula sula</a> Red-footed Booby [1023]		Breeding known to occur within area	In feature area
<b>Fish</b>			
<a href="#">Choeroichthys brachysoma</a> Pacific Short-bodied Pipefish, Short-bodied Pipefish [66194]		Species or species habitat may occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Choeroichthys sculptus</a> Sculptured Pipefish [66197]		Species or species habitat may occur within area	In feature area
<a href="#">Corythoichthys amplexus</a> Fijian Banded Pipefish, Brown-banded Pipefish [66199]		Species or species habitat may occur within area	In feature area
<a href="#">Corythoichthys flavofasciatus</a> Reticulate Pipefish, Yellow-banded Pipefish, Network Pipefish [66200]		Species or species habitat may occur within area	In feature area
<a href="#">Corythoichthys haematopterus</a> Reef-top Pipefish [66201]		Species or species habitat may occur within area	In feature area
<a href="#">Corythoichthys intestinalis</a> Australian Messmate Pipefish, Banded Pipefish [66202]		Species or species habitat may occur within area	In feature area
<a href="#">Corythoichthys schultzi</a> Schultz's Pipefish [66205]		Species or species habitat may occur within area	In feature area
<a href="#">Cosmocampus banneri</a> Roughridge Pipefish [66206]		Species or species habitat may occur within area	In feature area
<a href="#">Cosmocampus maxweberi</a> Maxweber's Pipefish [66209]		Species or species habitat may occur within area	In feature area
<a href="#">Doryrhamphus baldwini</a> Redstripe Pipefish [66718]		Species or species habitat may occur within area	In feature area
<a href="#">Doryrhamphus dactyliophorus</a> Banded Pipefish, Ringed Pipefish [66210]		Species or species habitat may occur within area	In feature area
<a href="#">Doryrhamphus excisus</a> Bluestripe Pipefish, Indian Blue-stripe Pipefish, Pacific Blue-stripe Pipefish [66211]		Species or species habitat may occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Doryrhamphus janssi</a> Cleaner Pipefish, Janss' Pipefish [66212]		Species or species habitat may occur within area	In feature area
<a href="#">Doryrhamphus negrosensis</a> Flagtail Pipefish, Masthead Island Pipefish [66213]		Species or species habitat may occur within area	In feature area
<a href="#">Halicampus brocki</a> Brock's Pipefish [66219]		Species or species habitat may occur within area	In feature area
<a href="#">Halicampus dunckeri</a> Red-hair Pipefish, Duncker's Pipefish [66220]		Species or species habitat may occur within area	In feature area
<a href="#">Halicampus macrorhynchus</a> Whiskered Pipefish, Ornate Pipefish [66222]		Species or species habitat may occur within area	In feature area
<a href="#">Halicampus mataafae</a> Samoan Pipefish [66223]		Species or species habitat may occur within area	In feature area
<a href="#">Halicampus nitidus</a> Glittering Pipefish [66224]		Species or species habitat may occur within area	In feature area
<a href="#">Halicampus spinostris</a> Spiny-snout Pipefish [66225]		Species or species habitat may occur within area	In feature area
<a href="#">Hippichthys cyanospilos</a> Blue-speckled Pipefish, Blue-spotted Pipefish [66228]		Species or species habitat may occur within area	In feature area
<a href="#">Hippichthys heptagonus</a> Madura Pipefish, Reticulated Freshwater Pipefish [66229]		Species or species habitat may occur within area	In feature area
<a href="#">Hippichthys penicillus</a> Beady Pipefish, Steep-nosed Pipefish [66231]		Species or species habitat may occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
<a href="#">Hippichthys spicifer</a> Belly-barred Pipefish, Banded Freshwater Pipefish [66232]		Species or species habitat may occur within area	In feature area
<a href="#">Hippocampus histrix</a> Spiny Seahorse, Thorny Seahorse [66236]		Species or species habitat may occur within area	In feature area
<a href="#">Hippocampus kuda</a> Spotted Seahorse, Yellow Seahorse [66237]		Species or species habitat may occur within area	In feature area
<a href="#">Hippocampus spinosissimus</a> Hedgehog Seahorse [66239]		Species or species habitat may occur within area	In feature area
<a href="#">Hippocampus trimaculatus</a> Three-spot Seahorse, Low-crowned Seahorse, Flat-faced Seahorse [66720]		Species or species habitat may occur within area	In feature area
<a href="#">Micrognathus brevis</a> thorntail Pipefish, Thorn-tailed Pipefish [66254]		Species or species habitat may occur within area	In feature area
<a href="#">Micrognathus micronotus</a> Tidepool Pipefish [66255]		Species or species habitat may occur within area	In feature area
<a href="#">Phoxocampus belcheri</a> Black Rock Pipefish [66719]		Species or species habitat may occur within area	In feature area
<a href="#">Solegnathus lettiensis</a> Gunther's Pipehorse, Indonesian Pipefish [66273]		Species or species habitat may occur within area	In feature area
<a href="#">Syngnathoides biaculeatus</a> Double-end Pipehorse, Double-ended Pipehorse, Alligator Pipefish [66279]		Species or species habitat may occur within area	In feature area
<a href="#">Trachyrhamphus bicoarctatus</a> Bentstick Pipefish, Bend Stick Pipefish, Short-tailed Pipefish [66280]		Species or species habitat may occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
<b>Reptile</b>			
<a href="#">Trachyrhamphus longirostris</a> Straightstick Pipefish, Long-nosed Pipefish, Straight Stick Pipefish [66281]		Species or species habitat may occur within area	In feature area
<a href="#">Caretta caretta</a> Loggerhead Turtle [1763]	Endangered	Species or species habitat likely to occur within area	In feature area
<a href="#">Chelonia mydas</a> Green Turtle [1765]	Vulnerable	Species or species habitat likely to occur within area	In feature area
<a href="#">Dermochelys coriacea</a> Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Species or species habitat likely to occur within area	In feature area
<a href="#">Eretmochelys imbricata</a> Hawksbill Turtle [1766]	Vulnerable	Species or species habitat likely to occur within area	In feature area
<a href="#">Lepidochelys olivacea</a> Olive Ridley Turtle, Pacific Ridley Turtle [1767]	Endangered	Species or species habitat likely to occur within area	In feature area
<a href="#">Natator depressus</a> Flatback Turtle [59257]	Vulnerable	Species or species habitat likely to occur within area	In feature area
<b>Whales and Other Cetaceans</b>			<a href="#">[ Resource Information ]</a>
Current Scientific Name	Status	Type of Presence	Buffer Status
<b>Mammal</b>			
<a href="#">Balaenoptera bonaerensis</a> Antarctic Minke Whale, Dark-shoulder Minke Whale [67812]		Species or species habitat likely to occur within area	In feature area
<a href="#">Balaenoptera borealis</a> Sei Whale [34]	Vulnerable	Species or species habitat likely to occur within area	In feature area
<a href="#">Balaenoptera edeni</a> Bryde's Whale [35]		Species or species habitat likely to occur within area	In feature area

Current Scientific Name	Status	Type of Presence	Buffer Status
<a href="#">Balaenoptera musculus</a> Blue Whale [36]	Endangered	Species or species habitat likely to occur within area	In feature area
<a href="#">Balaenoptera physalus</a> Fin Whale [37]	Vulnerable	Species or species habitat likely to occur within area	In feature area
<a href="#">Delphinus delphis</a> Common Dolphin, Short-beaked Common Dolphin [60]		Species or species habitat may occur within area	In feature area
<a href="#">Feresa attenuata</a> Pygmy Killer Whale [61]		Species or species habitat may occur within area	In feature area
<a href="#">Globicephala macrorhynchus</a> Short-finned Pilot Whale [62]		Species or species habitat may occur within area	In feature area
<a href="#">Grampus griseus</a> Risso's Dolphin, Grampus [64]		Species or species habitat may occur within area	In feature area
<a href="#">Indopacetus pacificus</a> Longman's Beaked Whale [72]		Species or species habitat may occur within area	In feature area
<a href="#">Kogia breviceps</a> Pygmy Sperm Whale [57]		Species or species habitat may occur within area	In feature area
<a href="#">Kogia sima</a> Dwarf Sperm Whale [85043]		Species or species habitat may occur within area	In feature area
<a href="#">Lagenodelphis hosei</a> Fraser's Dolphin, Sarawak Dolphin [41]		Species or species habitat may occur within area	In feature area
<a href="#">Megaptera novaeangliae</a> Humpback Whale [38]		Species or species habitat may occur within area	In feature area



Current Scientific Name	Status	Type of Presence	Buffer Status
<a href="#">Mesoplodon densirostris</a> Blainville's Beaked Whale, Dense-beaked Whale [74]		Species or species habitat may occur within area	In feature area
<a href="#">Mesoplodon ginkgodens</a> Ginkgo-toothed Beaked Whale, Ginkgo-toothed Whale, Ginkgo Beaked Whale [59564]		Species or species habitat may occur within area	In feature area
<a href="#">Orcinus orca</a> Killer Whale, Orca [46]		Species or species habitat may occur within area	In feature area
<a href="#">Peponocephala electra</a> Melon-headed Whale [47]		Species or species habitat may occur within area	In feature area
<a href="#">Physeter macrocephalus</a> Sperm Whale [59]		Species or species habitat may occur within area	In feature area
<a href="#">Pseudorca crassidens</a> False Killer Whale [48]		Species or species habitat likely to occur within area	In feature area
<a href="#">Stenella attenuata</a> Spotted Dolphin, Pantropical Spotted Dolphin [51]		Species or species habitat may occur within area	In feature area
<a href="#">Stenella coeruleoalba</a> Striped Dolphin, Euphrosyne Dolphin [52]		Species or species habitat may occur within area	In feature area
<a href="#">Stenella longirostris</a> Long-snouted Spinner Dolphin [29]		Species or species habitat may occur within area	In feature area
<a href="#">Steno bredanensis</a> Rough-toothed Dolphin [30]		Species or species habitat may occur within area	In feature area
<a href="#">Tursiops truncatus s. str.</a> Bottlenose Dolphin [68417]		Species or species habitat may occur within area	In feature area

Current Scientific Name	Status	Type of Presence	Buffer Status
<a href="#">Ziphius cavirostris</a> Cuvier's Beaked Whale, Goose-beaked Whale [56]		Species or species habitat may occur within area	In feature area

### Commonwealth Reserves Terrestrial [\[ Resource Information \]](#)

Name	State	Type	Buffer Status
Christmas Island	EXT	National Park (Commonwealth)	In feature area
Pulu Keeling	EXT	National Park (Commonwealth)	In feature area

### Australian Marine Parks [\[ Resource Information \]](#)

Park Name	Zone & IUCN Categories	Buffer Status
Christmas Island	Habitat Protection Zone (IUCN IV)	In feature area
Cocos (Keeling) Islands	Habitat Protection Zone (IUCN IV)	In feature area
Christmas Island	National Park Zone (IUCN II)	In feature area
Cocos (Keeling) Islands	National Park Zone (IUCN II)	In feature area
Cocos (Keeling) Islands	National Park Zone (IUCN II)	In feature area
Cocos (Keeling) Islands	National Park Zone (IUCN II)	In feature area

### Habitat Critical to the Survival of Marine Turtles

Scientific Name	Behaviour	Presence	Buffer Status
Dec - Jan <a href="#">Chelonia mydas</a> Green Turtle [1765]	Nesting	Known to occur	In feature area

### Extra Information

#### Nationally Important Wetlands [\[ Resource Information \]](#)

Wetland Name	State	Buffer Status
<a href="#">"The Dales", Christmas Island</a>	EXT	In feature area
<a href="#">Hosine's Spring, Christmas Island</a>	EXT	In feature area
<a href="#">Pulu Keeling National Park</a>	EXT	In feature area

#### EPBC Act Referrals [\[ Resource Information \]](#)

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
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Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
<a href="#">Cocos West Island Seawater Desalination Plant</a>	2022/09409		Completed	In feature area
<b>Controlled action</b>				
<a href="#">Breeding, husbandry, slaughter and sale of goats</a>	2004/1895	Controlled Action	Completed	In feature area
<a href="#">Christmas Island Airport Expansion</a>	2001/434	Controlled Action	Post-Approval	In feature area
<a href="#">Christmas Island Port Facility</a>	2001/435	Controlled Action	Post-Approval	In feature area
<a href="#">Construction of mobile phone tower</a>	2002/694	Controlled Action	Completed	In feature area
<a href="#">Cultural Appearance Upgrade of the Chinese Literary Association Building</a>	2007/3568	Controlled Action	Completed	In feature area
<a href="#">East Christmas Island Phosphate Mines (9 sites)</a>	2001/487	Controlled Action	Completed	In feature area
<a href="#">Eco quad tours for West Island visitors and tourists</a>	2010/5749	Controlled Action	Completed	In feature area
<a href="#">Exploration for Mineable Phosphate, Christmas Island</a>	2000/43	Controlled Action	Completed	In feature area
<a href="#">Home Island slipway &amp; access channel from Home Island Port Facility to Directio</a>	2009/4969	Controlled Action	Completed	In feature area
<a href="#">Lily Beach Recreational Facilities</a>	2001/395	Controlled Action	Post-Approval	In feature area
<a href="#">Lily Beach Rock Pool Development</a>	2001/400	Controlled Action	Completed	In feature area
<a href="#">Nava-1 Cable System</a>	2001/510	Controlled Action	Completed	In feature area
<a href="#">Phosphate Mining in South Point Christmas Island</a>	2012/6653	Controlled Action	Post-Approval	In feature area
<a href="#">Proposed exploration drilling programme for Christmas Island</a>	2016/7779	Controlled Action	Completed	In feature area
<a href="#">Public Ferry Hovercraft Operation</a>	2003/1239	Controlled Action	Post-Approval	In feature area
<a href="#">Red-footed booby bird harvest</a>	2002/844	Controlled Action	Referral Decision	In feature area
<a href="#">Road Upgrade/Construction between Lily Beach Road and Port Faci</a>	2001/436	Controlled Action	Post-Approval	In feature area

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
<b>Controlled action</b>				
<a href="#">Salvage, transport and processing of phosphate resource with extended airport si</a>	2003/1217	Controlled Action	Post-Approval	In feature area
<a href="#">Yellow Crazy Ant Biological Control</a>	2013/6836	Controlled Action	Post-Approval	In feature area
<b>Not controlled action</b>				
<a href="#">96-108 Gaze Road - Residential upgrade</a>	2006/2632	Not Controlled Action	Completed	In feature area
<a href="#">Aerial Baiting, Yellow Crazy Ant Supercolonies, Christmas Island, WA</a>	2019/8492	Not Controlled Action	Completed	In feature area
<a href="#">APX-West Fibre-optic telecommunications cable system, WA to Singapore</a>	2013/7102	Not Controlled Action	Completed	In feature area
<a href="#">Boat Ramp Construction</a>	2001/237	Not Controlled Action	Completed	In feature area
<a href="#">Buffett Close Residential Development</a>	2004/1887	Not Controlled Action	Completed	In feature area
<a href="#">Building of a carport adjacent to residential house</a>	2004/1538	Not Controlled Action	Completed	In feature area
<a href="#">Christmas Island/Construction of a double storey shed/carport at MQ387 Gaze Road</a>	2004/1561	Not Controlled Action	Completed	In feature area
<a href="#">Christmas Island Fuel Consolidation Project, Christmas Island</a>	2012/6454	Not Controlled Action	Completed	In feature area
<a href="#">Cocos (Keeling) Islands Maintenance Dredging Home Island Slipway Redevelopment, Cocos (Keeling) Isla</a>	2014/7140	Not Controlled Action	Completed	In feature area
<a href="#">Community Recreation Centre</a>	2003/1279	Not Controlled Action	Completed	In feature area
<a href="#">courtyard shower &amp; handbasin facilities</a>	2006/2803	Not Controlled Action	Completed	In feature area
<a href="#">Dwelling demolition, maintenance and carpark/carport/storage shed works</a>	2004/1837	Not Controlled Action	Completed	In feature area
<a href="#">Extension of a Masonary Brick Wall adjacent to the Poon Saan Club by 500 mm</a>	2004/1564	Not Controlled Action	Completed	In feature area
<a href="#">External Upgrade of House</a>	2010/5387	Not Controlled Action	Completed	In feature area

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
<b>Not controlled action</b>				
<a href="#">Flying Fish Cove Christmas Island Boat Ramp Maintenance</a>	2021/8924	Not Controlled Action	Completed	In feature area
<a href="#">Flying Fish Cove Landslide Mitigation Project</a>	2020/8616	Not Controlled Action	Completed	In feature area
<a href="#">Garage and Office Facilities</a>	2004/1919	Not Controlled Action	Completed	In feature area
<a href="#">Housing and Garden Maintenance Works</a>	2004/1487	Not Controlled Action	Completed	In feature area
<a href="#">Hydroponics Research Program</a>	2007/3338	Not Controlled Action	Completed	In feature area
<a href="#">Identification of unmarked grave, exhumation/identification of remains which may belong to a sailor</a>	2006/2992	Not Controlled Action	Completed	In feature area
<a href="#">INDIGO West Submarine Telecommunications Cable, WA</a>	2017/8126	Not Controlled Action	Completed	In feature area
<a href="#">Infrasound Monitoring Station</a>	2007/3390	Not Controlled Action	Completed	In feature area
<a href="#">Installation of a desalination plant and associated infrastructure</a>	2013/6833	Not Controlled Action	Completed	In feature area
<a href="#">Internal and external modifications Lot 1014 Gaze Road</a>	2004/1807	Not Controlled Action	Completed	In feature area
<a href="#">Light Industrial Subdivision Development</a>	2004/1799	Not Controlled Action	Completed	In feature area
<a href="#">Lot 1056 Extensions and Alterations</a>	2004/1801	Not Controlled Action	Completed	In feature area
<a href="#">Maintenance of Tai Jin House, Smith Point</a>	2009/4933	Not Controlled Action	Completed	In feature area
<a href="#">Mobile Radio Communications System Upgrade</a>	2002/718	Not Controlled Action	Completed	In feature area
<a href="#">Oman Australia Cable Installation, WA</a>	2021/8922	Not Controlled Action	Completed	In feature area
<a href="#">Oman Australia Cable - Marine Route Survey</a>	2020/8731	Not Controlled Action	Completed	In feature area
<a href="#">Placement of bitumen/ concrete on rail sections of heritage listed incline, Christmas Island</a>	2013/7009	Not Controlled Action	Completed	In feature area
<a href="#">Power Station Diesel Generator Replacement</a>	2009/4685	Not Controlled Action	Completed	In feature area

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
<b>Not controlled action</b>				
<a href="#">Proposed Community Centre</a>	2010/5306	Not Controlled Action	Completed	In feature area
<a href="#">Proposed sale or lease of Crown land, 11 lots, Christmas Island</a>	2018/8220	Not Controlled Action	Completed	In feature area
<a href="#">Realignment of Gaze Road Service Road and Gaze Road Junction</a>	2004/1735	Not Controlled Action	Completed	In feature area
<a href="#">Refurbishment and Extension of Seaview Lodge</a>	2012/6353	Not Controlled Action	Completed	In feature area
<a href="#">renovate free-standing servant's quarters</a>	2006/2811	Not Controlled Action	Completed	In feature area
<a href="#">Replacement of deteriorating flat roof at rear of Mosque and extending side verandahs, Christmas Is</a>	2013/6851	Not Controlled Action	Completed	In feature area
<a href="#">Residential upgrade, 2 Coconut Grove</a>	2007/3295	Not Controlled Action	Completed	In feature area
<a href="#">Stormwater Remediation Project, Christmas Island</a>	2019/8467	Not Controlled Action	Completed	In feature area
<a href="#">Subdivision of Lot 571 on DP 26701</a>	2008/4230	Not Controlled Action	Completed	In feature area
<a href="#">Subdivision of Part 7 of Lot 1014</a>	2009/4851	Not Controlled Action	Completed	In feature area
<a href="#">Supermarket Extensions</a>	2006/2515	Not Controlled Action	Completed	In feature area
<a href="#">upgrade of House 11, William Keeling Crescent</a>	2005/2447	Not Controlled Action	Completed	In feature area
<a href="#">Upgrade of House 16 on William Keeling Crescent, a Cwlth owned house in Type T H</a>	2006/2903	Not Controlled Action	Completed	In feature area
<a href="#">Upgrade of Residence, Coconut Grove</a>	2006/2728	Not Controlled Action	Completed	In feature area
<a href="#">Verandah Extension to Existing Breezeway Unit, Gaze Road</a>	2005/1970	Not Controlled Action	Completed	In feature area
<b>Not controlled action (particular manner)</b>				
<a href="#">2D marine seismic survey</a>	2012/6296	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Addition of Verandah to Block of Four Units</a>	2005/2315	Not Controlled Action (Particular Manner)	Post-Approval	In feature area

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
<b>Not controlled action (particular manner)</b>				
<a href="#">Aerial Baiting of Yellow Crazy Ants</a>	2012/6438	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Asbestos Removal from Commonwealth Owned Assests including Commonwealth Heritage</a>	2009/4873	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Asbestos Removal from Various Buildings and Sites</a>	2009/4887	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Australia to Singapore Fibre Optic Submarine Cable System</a>	2011/6127	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Baiting Efficacy Trial of Feral Cat Bait and PAPP Toxicant</a>	2008/4383	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Commonwealth Marine/Flying Fish Cove Jetty Extension</a>	2012/6675	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Construction of a Power Station</a>	2003/1177	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Crazy Ant Aerial Baiting Control Program</a>	2002/722	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Development of a small 25 bed, tented Eco Resort</a>	2012/6284	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Exmouth West 2D Marine Seismic Survey</a>	2008/4132	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Helicopter baiting of exotic yellow crazy ant supercolonies, Christmas Island, Indian Ocean</a>	2009/5016	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Home Island Slipway Redevelopment</a>	2010/5511	Not Controlled Action (Particular	Post-Approval	In feature area

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
<b>Not controlled action (particular manner)</b>				
		Manner)		
<a href="#">INDIGO Marine Cable Route Survey (INDIGO)</a>	2017/7996	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Laying a submarine optical fibre telecommunications cable, Perth to Singapore and Jakarta</a>	2014/7332	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">New Housing Program</a>	2011/6056	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Residential Development, Lot 101 Cocos (Keeling) Island</a>	2011/5856	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Swimming Pool modification</a>	2007/3312	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Translocation of T.gigas for breeding and release</a>	2005/1958	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Trials of a bait delivery system for the control of Yellow Crazy Ants</a>	2009/4763	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Water supply upgrade</a>	2005/2269	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<a href="#">Westralia SPAN Marine Seismic Survey, WA &amp; NT</a>	2012/6463	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
<b>Referral decision</b>				
<a href="#">Alterations and Improvements to existing residence at Lot 3015 Gaze Rd, Christmas Island</a>	2009/5039	Referral Decision	Completed	In feature area
<a href="#">Cocos West Island Seawater Desalination Plant</a>	2022/9153	Referral Decision	Referral Publication	In feature area
<a href="#">Rocky Point Dwelling Redevelopment</a>	2005/2203	Referral Decision	Referral Decision	In feature area





# Caveat

## 1 PURPOSE

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

The report contains the mapped locations of:

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

## 2 DISCLAIMER

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

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

## 3 DATA SOURCES

Threatened ecological communities

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

Threatened, migratory and marine species

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

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

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

## 4 LIMITATIONS

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

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

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

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

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

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

# Acknowledgements

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

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

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

Please feel free to provide feedback via the [Contact us](#) page.

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## A.2 EPBC-listed species risk evaluation table

This table was developed by:

- Searching the Species Profile and Threats Database (SPRAT) (<http://www.environment.gov.au/cgi-bin/sprat/public/sprat.pl>) for every species identified in the EPBC Act Protected Matters search related to this EP.
- Through the SPRAT database, identifying the relevant conservation management documents.
- Determining the relevant aspects/threats from the conservation management documents related to the activity
- Listing where the aspect/threat has been addressed in the EP.

Fauna Type	Conservation management documents	Summary of relevant aspects/threats identified from conservation management documents	Summary of relevant actions from conservation management documents	Relevant exposure / risk evaluation section of EP
EPBC-listed fishes and sharks	<p>Whale shark management. 2013. Wildlife management program no. 57. Department of Parks and Wildlife. State of Western Australia.</p> <p>Threatened Species Scientific Committee. 2015. Approved Conservation Advice for <i>Rhincodon typus</i> (whale shark). Commonwealth of Australia.</p> <p>Threatened Species Scientific Committee. 2014. Approved Conservation Advice for <i>Glyphis garricki</i> (northern river shark). Commonwealth of Australia.</p> <p>Threatened Species Scientific Committee. 2009. Commonwealth Conservation Advice on <i>Pristis clavata</i> (dwarf sawfish). Commonwealth of Australia.</p> <p>Threatened Species Scientific Committee. 2008. Approved Conservation Advice for <i>Pristis zijsron</i> (green sawfish). Commonwealth of Australia.</p> <p>Department of the Environment. 2015. Sawfish and River Sharks - Multispecies Recovery Plan. Commonwealth of Australia.</p> <p>Department of Environment and Energy. 2018. Threat abatement plan for the impacts of marine debris on the vertebrate wildlife of Australia's coasts and oceans. Commonwealth of Australia.</p> <p>Department of Sustainability, Environment, Water, Population and Communities (DSEWPac). 2012. Marine bioregional plan for the North-west Marine Region. DSEWPac, Canberra, ACT.</p> <p>Department of Sustainability, Environment, Water, Population and Communities (DSEWPac). 2012. Marine bioregional plan for the North Marine Region. DSEWPac, Canberra, ACT.</p> <p>Threatened Species Scientific Committee. 2014. Approved Conservation Advice for <i>Glyphis glyphis</i> (speartooth shark). Commonwealth of Australia.</p> <p>Department of the Environment. 2014. Recovery Plan for the Grey Nurse Shark (<i>Carcharias taurus</i>).</p>	<ul style="list-style-type: none"> <li>• Waste / marine debris</li> <li>• Noise and vibration</li> <li>• Introduced Marine Species</li> <li>• Vessel strike</li> <li>• Benthic habitat degradation / seabed disturbance</li> <li>• Emissions and discharges</li> <li>• Oil spill</li> </ul>	<ul style="list-style-type: none"> <li>• Identify populations and areas of high conservation priority (sawfishes).</li> <li>• Ensure there is no anthropogenic disturbance / implement measures to reduce adverse impacts of habitat degradation and/or modification (northern river shark).</li> <li>• Ensure all future developments will not significantly impact upon sawfish and river shark habitats critical to the survival of the species or impede upon the migration of individual sawfish or river sharks. Implement measures to reduce adverse impacts of habitat degradation and/or modification.</li> <li>• Review and assess the potential threat of introduced species, pathogens and pollutants.</li> <li>• Minimise offshore developments and transit time of large vessels in areas close to marine features likely to correlate with whale shark aggregations (Ningaloo Reef,) and along the northward migration route that follows the northern WA coastline along the 200 m isobath.</li> <li>• Contribute to the long-term prevention of the incidence of harmful marine debris.</li> </ul>	<ul style="list-style-type: none"> <li>• EP Section 7.2 – Waste management</li> <li>• EP Section 7.3 - Noise and vibration</li> <li>• EP Section 7.4.1 - Introduction of invasive marine species</li> <li>• EP Section 7.4.2 - Interaction with marine fauna</li> <li>• EP Section 7.5 - Seabed disturbance</li> <li>• EP Section 7.1.3 - Routine discharges</li> <li>• EP Section 8 - Emergency conditions (oil spills).</li> </ul>
EPBC-listed marine reptiles	<p>Department of the Environment and Energy 2017. Recovery Plan for Marine Turtles in Australia, Commonwealth of Australia 2017.</p> <p>Threatened Species Scientific Committee. 2011. Commonwealth Conservation Advice on <i>Aipysurus apraefrontalis</i> (Short-nosed Seasnake). Commonwealth of Australia.</p> <p>Threatened Species Scientific Committee. 2011. Commonwealth Conservation Advice on <i>Aipysurus foliosquama</i> (Leaf-scaled Seasnake). Commonwealth of Australia.</p>	<ul style="list-style-type: none"> <li>• Waste / marine debris</li> <li>• Noise and vibration</li> <li>• Introduced Marine Species</li> <li>• Vessel strike</li> <li>• Benthic habitat degradation / seabed disturbance</li> <li>• Emissions and discharges</li> <li>• Oil spill</li> <li>• Light emissions</li> </ul>	<ul style="list-style-type: none"> <li>• Manage artificial light from onshore and offshore sources to ensure biologically important behaviours of nesting adults and dispersing hatchlings can continue.</li> <li>• Artificial light within or adjacent to habitat critical to the survival of marine turtles will be managed such that marine turtles are not displaced from these habitats and implementation of best practice light management guidelines for developments adjacent to marine turtle nesting beaches.</li> <li>• Identify the cumulative impact on turtles from multiple sources of onshore and offshore light pollution.</li> </ul>	<ul style="list-style-type: none"> <li>• EP Section 7.1.1 - Light emissions</li> <li>• EP Section 7.2 – Waste management</li> <li>• EP Section 7.3 - Noise and vibration</li> <li>• EP Section 7.4.1 - Introduction of invasive marine species</li> <li>• EP Section 7.4.2 - Interaction with marine fauna</li> <li>• EP Section 7.5 - Seabed disturbance</li> <li>• EP Section 7.1.3 - Routine discharges</li> <li>• EP Section 8 - Emergency conditions (oil spills).</li> </ul>

Fauna Type	Conservation management documents	Summary of relevant aspects/threats identified from conservation management documents	Summary of relevant actions from conservation management documents	Relevant exposure / risk evaluation section of EP
	<p>Department of Environment and Energy. 2018. Threat abatement plan for the impacts of marine debris on the vertebrate wildlife of Australia's coasts and oceans. Commonwealth of Australia.</p> <p>Department of Sustainability, Environment, Water, Population and Communities (DSEWPac). 2012. Marine bioregional plan for the North-west Marine Region. DSEWPac, Canberra, ACT.</p> <p>Department of Sustainability, Environment, Water, Population and Communities (DSEWPac). 2012. Marine bioregional plan for the North Marine Region. DSEWPac, Canberra, ACT.</p> <p><b>Department of Climate Change, Energy, the Environment and Water. 2023, National Light Pollution Guidelines for Wildlife, Department of Climate Change, Energy, the Environment and Water, Canberra, ACT.</b></p> <p>Department of the Environment and Energy. 2017. National Strategy for Reducing Vessel Strike on Cetaceans and other Marine Fauna. Commonwealth of Australia, Canberra, ACT.</p>		<ul style="list-style-type: none"> <li>• Support retrofitting of lighting at coastal communities and industrial developments, including imposing restrictions around nesting seasons.</li> <li>• Manage anthropogenic activities to ensure marine turtles are not displaced from identified habitat critical for survival.</li> <li>• Contribute to the reduction in the source of marine debris.</li> <li>• Ensure that spill risk strategies and response programs include management for turtles and their habitats, particularly in reference to slow to recover habitats, e.g. seagrass meadows or corals.</li> <li>• Implement best practices to minimise impacts to turtle health and habitats from chemical discharges.</li> <li>• Identify populations and areas of high conservation priority (sea snakes).</li> <li>• Ensure there is no anthropogenic disturbance / implement measures to reduce adverse impacts of habitat degradation and/or modification (sea snakes).</li> <li>• Increased reporting of vessel collision (a requirement of the EPBC Act).</li> <li>• Reduce risk of collision with cetaceans (and turtles) such as maintaining look out, consider reducing vessel speed and course alterations away from sightings.</li> </ul>	
EPBC-listed seabirds and shorebirds	<p>Department of the Environment. 2015. EPBC Act Policy Statement 3.21 - Industry guidelines for avoiding, assessing and mitigating impacts on EPBC listed migratory shorebird species.</p> <p>Department of the Environment. 2015. Wildlife conservation plan for migratory shorebirds. Commonwealth of Australia.</p> <p>Department of the Environment. 2015. Draft referral guideline for 14 birds listed as migratory under the EPBC Act. Commonwealth of Australia.</p> <p>Department of Sustainability, Environment, Water, Population and Communities. 2012. Species group report card - seabirds and migratory shorebirds. Supporting the marine bioregional plan for the North-west Marine Region. Prepared under the Environment Protection and Biodiversity Conservation Act 1999. Commonwealth of Australia.</p> <p>Department of the Environment, Water, Heritage and the Arts. 2009. Threat abatement plan to reduce the impacts of exotic rodents on biodiversity on Australian offshore islands of less than 100 000 hectares. Commonwealth of Australia.</p> <p>Department of Environment and Energy. 2018. Threat abatement plan for the impacts of marine debris on the vertebrate wildlife of Australia's coasts and oceans. Commonwealth of Australia.</p>	<ul style="list-style-type: none"> <li>• Waste / marine debris</li> <li>• Noise and vibration</li> <li>• Introduced Marine Species</li> <li>• Introduced Terrestrial Pests (rodents)</li> <li>• Benthic habitat degradation / seabed disturbance</li> <li>• Emissions and discharges</li> <li>• Oil spill</li> <li>• Light emissions</li> </ul>	<ul style="list-style-type: none"> <li>• Reduce risk of rodents gaining access to key vessels at key ports</li> <li>• Contribute to the long-term prevention of the incidence of harmful marine debris</li> <li>• Identify threats to important (migratory shorebird) habitat and develop conservation measures for managing them.</li> <li>• Avoid degradation of migratory shorebird habitat that may occur through the introduction of exotic species, changes to hydrology or water quality (including toxic inflows), fragmentation of habitat or exposure to litter, pollutants and acid sulphate soils. Minimise human disturbance, a major threat to migratory shorebirds</li> <li>• Best practice waste management should be implemented.</li> <li>•</li> </ul>	<ul style="list-style-type: none"> <li>• EP Section 7.1.1 - Light emissions</li> <li>• EP Section 7.1.2 - Atmospheric emissions</li> <li>• EP Section 7.1.3 - Routine discharges</li> <li>• EP Section 7.2. – Waste management</li> <li>• EP Section 7.3 - Noise and vibration</li> <li>• EP Section 7.4.1 - Introduction of invasive marine species</li> <li>• EP Section 8 - Emergency conditions (oil spills).</li> </ul>

Fauna Type	Conservation management documents	Summary of relevant aspects/threats identified from conservation management documents	Summary of relevant actions from conservation management documents	Relevant exposure / risk evaluation section of EP
	<p>Department of Sustainability, Environment, Water, Population and Communities (DSEWPac). 2012. Marine bioregional plan for the North-west Marine Region. DSEWPac, Canberra, ACT.</p> <p>Department of Sustainability, Environment, Water, Population and Communities (DSEWPac). 2012. Marine bioregional plan for the North Marine Region. DSEWPac, Canberra, ACT.</p> <p>Threatened Species Scientific Committee. 2016. <i>Calidris tenuirostris</i> (Great Knot) Approved Conservation Advice. Commonwealth of Australia.</p> <p>Threatened Species Scientific Committee. 2016. <i>Calidris canutus</i> (Red Knot) Approved Conservation Advice. Commonwealth of Australia.</p> <p>Threatened Species Scientific Committee. 2016. <i>Charadrius leschenaultii</i> (Greater Sand Plover) Approved Conservation Advice. Commonwealth of Australia.</p> <p>Threatened Species Scientific Committee. 2016. <i>Charadrius mongolus</i> (Lesser Sand Plover) Approved Conservation Advice. Commonwealth of Australia.</p> <p>Threatened Species Scientific Committee. 2016. <i>Fregata andrewsi</i> (Christmas Island Frigatebird) Approved Conservation Advice. Commonwealth of Australia.</p> <p>Threatened Species Scientific Committee. 2016. <i>Hypotaenidia philippensis andrewsi</i> (Buff-banded Rail) Approved Conservation Advice. Commonwealth of Australia.</p> <p>Threatened Species Scientific Committee. 2016. <i>Limosa lapponica menzbieri</i> — Northern Siberian Bar-tailed Godwit. Approved Conservation Advice. Commonwealth of Australia.</p> <p>Threatened Species Scientific Committee. 2015. <i>Calidris ferruginea</i> (Curlew Sandpiper) Approved Conservation Advice. Commonwealth of Australia.</p> <p>Threatened Species Scientific Committee. 2001. Commonwealth listing advice on <i>Macronectes giganteus</i>. Commonwealth of Australia.</p> <p>Threatened Species Scientific Committee. 2015. <i>Papasula abbotti</i> — Abbott's Booby. Approved Conservation Advice. Commonwealth of Australia.</p> <p>Department of the Environment. 2015. Conservation advice <i>Numenius madagascariensis</i> (eastern curlew). Commonwealth of Australia.</p> <p>Department of the Environment. 2014. Conservation Advice <i>Phaethon lepturus fulvus</i> white-tailed tropicbird (Christmas Island) Commonwealth of Australia.</p>			



Fauna Type	Conservation management documents	Summary of relevant aspects/threats identified from conservation management documents	Summary of relevant actions from conservation management documents	Relevant exposure / risk evaluation section of EP
	<p>Threatened Species Scientific Committee. 2015. <i>Pterodroma arminjoniana</i> — Round Island Petrel. Approved Conservation Advice. Commonwealth of Australia.</p> <p>Threatened Species Scientific Committee. 2015. <i>Pterodroma mollis</i> — Soft-plumaged petrel. Approved Conservation Advice. Commonwealth of Australia.</p> <p>Threatened Species Scientific Committee. 2015. Approved Conservation Advice for <i>Anous tenuirostris melanops</i> (Australian lesser noddy). Commonwealth of Australia.</p> <p>Threatened Species Scientific Committee. 2002. Commonwealth Listing Advice on <i>Sterna albifrons sinensis</i> (Little Tern (western Pacific)). Commonwealth of Australia.</p> <p>National Recovery Plan for the Australian Painted Snipe (<i>Rostratula australis</i>), Commonwealth of Australia 2022.</p> <p>Department of Sustainability, Environment, Water, Population and Communities. 2011. Approved Conservation Advice for <i>Sternula nereis nereis</i> (Fairy Tern). Canberra, ACT.</p> <p>Department of Agriculture, Water and the Environment. 2020. National Recovery Plan for the Australian Fairy Tern (<i>Sternula nereis nereis</i>), Commonwealth of Australia 2020.</p> <p>Department of the Environment and Energy. 2020. Light pollution guidelines – National light pollution guidelines for wildlife: Including marine turtles, seabirds and migratory shorebirds. Commonwealth of Australia, Canberra, ACT.</p> <p>National Recovery Plan for albatrosses and petrels 2022, Commonwealth of Australia 2022.</p> <p>Australian Government. Wildlife Conservation Plan for Seabirds, Commonwealth of Australia 2020.</p>			
EPBC-listed cetaceans	<p>Department of the Environment. 2015. Conservation Management Plan for the Blue Whales - A Recovery Plan under the Environment Protection and Biodiversity Conservation Act 1999 (2015-2025). Commonwealth of Australia.</p> <p>Threatened Species Scientific Committee. 2015. Balaenoptera borealis (Sei Whale) Conservation Advice. Commonwealth of Australia.</p> <p>Threatened Species Scientific Committee. 2022. Listing Advice for Megaptera novaeangliae (humpback whale). Commonwealth of Australia.</p>	<ul style="list-style-type: none"> <li>• Waste / marine debris</li> <li>• Noise and vibration</li> <li>• Introduced Marine Species</li> <li>• Vessel strike</li> <li>• Benthic habitat degradation / seabed disturbance</li> <li>• Emissions and discharges</li> <li>• Oil spill</li> </ul>	<ul style="list-style-type: none"> <li>• Ensure all vessel strike incidents are reported in the National Ship Strike Database.</li> <li>• Ensure the risk of vessel strikes on blue whales is considered when assessing actions that increase vessel traffic in areas where blue whales occur and, if required, appropriate mitigation measures are implemented.</li> <li>• Protect habitat important to the survival of the species (humpback whales); assess and manage physical disturbance and development activities (such as ship-strike and pollution).</li> </ul>	<ul style="list-style-type: none"> <li>• EP Section 7.1.3 - Routine discharges</li> <li>• EP Section 7.2 – Waste Management</li> <li>• EP Section 7.3 - Noise and Vibration</li> <li>• EP Section 7.4.1 - Introduction of invasive marine species</li> <li>• EP Section 7.4.2 - Interaction with marine fauna</li> <li>• EP Section 7.5 - Seabed disturbance</li> <li>• EP Section 8 - Emergency conditions (oil spills).</li> </ul>

Fauna Type	Conservation management documents	Summary of relevant aspects/threats identified from conservation management documents	Summary of relevant actions from conservation management documents	Relevant exposure / risk evaluation section of EP
	<p>Threatened Species Scientific Committee. 2015. Approved Conservation Advice for Balaenoptera physalus — Fin Whale. Commonwealth of Australia- EPBC Act Regulations 2000. Part 8 Interacting with cetaceans and whale watching. Division 8.1 Interacting with cetaceans. Commonwealth of Australia.</p> <p>Department of Environment and Energy, 2017. Australian National Guidelines for Whale and Dolphin Watching 2017. Commonwealth of Australia.</p> <p>Department of Environment and Energy. 2018. Threat abatement plan for the impacts of marine debris on the vertebrate wildlife of Australia's coasts and oceans. Commonwealth of Australia.</p> <p>Department of Sustainability, Environment, Water, Population and Communities (DSEWPac). 2012. Marine bioregional plan for the North-west Marine Region. DSEWPac, Canberra, ACT.</p> <p>Department of Sustainability, Environment, Water, Population and Communities (DSEWPac). 2012. Marine bioregional plan for the North Marine Region. DSEWPac, Canberra, ACT.</p> <p>Department of the Environment and Energy. 2017. National Strategy for Reducing Vessel Strike on Cetaceans and other Marine Fauna. Commonwealth of Australia, Canberra, ACT.</p>		<ul style="list-style-type: none"> <li>• Ensure the risk of vessel strike on humpback whales is considered when assessing actions that increase vessel traffic in areas where humpback whales occur and, if required appropriate mitigation measures are implemented to reduce the risk of vessel strike.</li> <li>• Environmental assessment processes must ensure that existing information about coastal habitat requirements of humpback whales, environmental suitability of coastal locations, historic high use and emerging areas are taken into consideration.</li> <li>• Contribute to the long-term prevention of the incidence of harmful marine debris.</li> <li>• if a whale or dolphin surfaces in the vicinity of a vessel travelling for a purpose other than whale and dolphin watching, take all care necessary to avoid collisions. This may include stopping, slowing down and/or steering away from the animal.</li> <li>• Increased reporting of vessel collision (a requirement of the EPBC Act).</li> <li>• Reduce risk of collision with cetaceans (and turtles) such as maintaining look out, consider reducing vessel speed and course alterations away from sightings.</li> </ul>	

### A.3 Cultural heritage reports

#### WA Aboriginal Heritage Inquiry System

- Registered Aboriginal sites.
- Other heritage places

## List of Registered Aboriginal Sites

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### Search Criteria

553 Registered Aboriginal Sites in Shapefile - ENVIRO\_WA343P&WA285P\_EMBA\_20220314\_Polygon, ENVIRO\_WA343P&WA285P\_PZArea\_20220314\_Polygon

### 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](mailto: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.

### Terminology (NB that some terminology has varied over the life of the legislation)

**Place ID/Site ID:** This a unique ID assigned by the Department of Planning, Lands and Heritage to the place.

#### Status:

- **Registered Site:** The place has been assessed as meeting Section 5 of the *Aboriginal Heritage Act 1972*.
- **Other Heritage Place which includes:**
  - **Stored Data / Not a Site:** The place has been assessed as not meeting Section 5 of the *Aboriginal Heritage Act 1972*.
  - **Lodged:** Information has been received in relation to the place, but an assessment has not been completed at this *stage* to determine if it meets Section 5 of the *Aboriginal Heritage Act 1972*.

#### Access and Restrictions:

- **File Restricted = No:** Availability of information that the Department of Planning, Lands and Heritage holds in relation to the place is not restricted in any way.
- **File Restricted = Yes:** Some of the information that the Department of Planning, Lands and Heritage holds in relation to the place is restricted if it is considered culturally sensitive. This information will only be made available if the Department of Planning, Lands and Heritage receives written approval from the informants who provided the information. To request access please contact [AboriginalHeritage@dplh.wa.gov.au](mailto:AboriginalHeritage@dplh.wa.gov.au).
- **Boundary Restricted = No:** Place location is shown as accurately as the information lodged with the Registrar allows.
- **Boundary Restricted = Yes:** To preserve confidentiality the exact location and extent of the place is not displayed on the map. However, the shaded region (generally with an area of at least 4km<sup>2</sup>) provides a general indication of where the place is located. If you are a landowner and wish to find out more about the exact location of the place, please contact the Department of Planning, Lands and Heritage.
- **Restrictions:**
  - **No Restrictions:** *Anyone* can view the information.
  - **Male Access Only:** Only *males* can view restricted information.
  - **Female Access Only:** Only *females* can view restricted information.

**Legacy ID:** This is the former unique number that the former Department of Aboriginal Sites assigned to the place. This has been replaced by the Place ID / Site ID.

## List of Registered Aboriginal Sites

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# Aboriginal Heritage Inquiry System

## List of Registered Aboriginal Sites

ID	Name	File Restricted	Boundary Restricted	Restrictions	Status	Type	Knowledge Holders	Coordinate	Legacy ID
1014	NGOORONBOOK	No	No	No Gender Restrictions	Registered Site	Mythological	*Registered Knowledge Holder names available from DPL	465217mE 8122991mN Zone 51 [Reliable]	K02888
1022	ROLLAH MIDDEN.	No	No	No Gender Restrictions	Registered Site	Historical, Midden / Scatter, Camp	*Registered Knowledge Holder names available from DPL	362637mE 7928261mN Zone 51 [Reliable]	K02894
1023	WANGALNGURRU.	No	No	No Gender Restrictions	Registered Site	Historical, Midden / Scatter, Water Source	*Registered Knowledge Holder names available from DPL	356666mE 7930195mN Zone 51 [Reliable]	K02895
1048	PAROLO	No	No	No Gender Restrictions	Registered Site	Man-Made Structure, Skeletal Material / Burial	*Registered Knowledge Holder names available from DPL	799253mE 8381631mN Zone 51 [Reliable]	K02878
7784	BUNNEENYA.	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Midden / Scatter, Water Source	*Registered Knowledge Holder names available from DPL	780640mE 7783456mN Zone 50 [Unreliable]	P05053
7785	WALUBIDI-MARINGDJINE.	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Midden / Scatter, Water Source	*Registered Knowledge Holder names available from DPL	781090mE 7783956mN Zone 50 [Unreliable]	P05054
7786	BAALYINNYE.	Yes	Yes	No Gender Restrictions	Registered Site	Artefacts / Scatter, Midden / Scatter, Water Source	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	P05055
7837	MERRIMERICA HILL	Yes	Yes	No Gender Restrictions	Registered Site	Ceremonial, Mythological, Repository / Cache	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	P05052
10658	MERRIMERICA HILL 1	Yes	Yes	No Gender Restrictions	Registered Site	Ceremonial, Mythological, Repository / Cache	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	P01498
10659	MERRIMERICA HILL 2	Yes	Yes	No Gender Restrictions	Registered Site	Ceremonial, Mythological	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	P01499
11397	PARDOO 1	Yes	Yes	No Gender Restrictions	Registered Site	Artefacts / Scatter, Repository / Cache	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	P00747
11398	PARDOO 3/MERRIMERICA HILL.	Yes	Yes	No Gender Restrictions	Registered Site	Artefacts / Scatter, Midden / Scatter, Mythological, Skeletal Material / Burial, BP Dating: 1-6,000 BP, Camp, Other: PA 40	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	P00748

# Aboriginal Heritage Inquiry System

## List of Registered Aboriginal Sites

ID	Name	File Restricted	Boundary Restricted	Restrictions	Status	Type	Knowledge Holders	Coordinate	Legacy ID
11449	PARDOO 2.	Yes	Yes	No Gender Restrictions	Registered Site	Artefacts / Scatter, Midden / Scatter, Skeletal Material / Burial, Camp, Other: PA 44, NE	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	P00745
11577	MYADEE SPRING	No	No	No Gender Restrictions	Registered Site	Skeletal Material / Burial	*Registered Knowledge Holder names available from DPL	789640mE 7778656mN Zone 50 [Unreliable]	P00605
12133	CHOLEMMA.	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Camp	*Registered Knowledge Holder names available from DPL	563637mE 8204661mN Zone 51 [Unreliable]	K00066
12135	YEEDIWOODU.	No	No	No Gender Restrictions	Registered Site	Camp	*Registered Knowledge Holder names available from DPL	558810mE 8201325mN Zone 51 [Reliable]	K00068
12161	KAIKALUOMA, TALBOT BAY	No	No	No Gender Restrictions	Registered Site	Engraving, Painting	*Registered Knowledge Holder names available from DPL	581224mE 8203077mN Zone 51 [Reliable]	K00041
12162	YALULPA-KULANU, KOOLAN IS.	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Mythological, Painting, Rockshelter, Arch Deposit, Camp	*Registered Knowledge Holder names available from DPL	583437mE 8215311mN Zone 51 [Reliable]	K00042
12165	KUNGULUMA, YAMPI SOUND.	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Camp	*Registered Knowledge Holder names available from DPL	568571mE 8212325mN Zone 51 [Reliable]	K00045
12167	MARILI-MA, MYRIDI BAY.	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Camp	*Registered Knowledge Holder names available from DPL	568637mE 8210661mN Zone 51 [Unreliable]	K00047
12172	KARALU, YAMPI SOUND.	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Engraving, Midden / Scatter, Rockshelter	*Registered Knowledge Holder names available from DPL	563710mE 8212444mN Zone 51 [Reliable]	K00052
12176	IRVINE ISLAND.	No	No	No Gender Restrictions	Registered Site	Camp	*Registered Knowledge Holder names available from DPL	559206mE 8223106mN Zone 51 [Unreliable]	K00056
12179	BATHURST ISLAND.	No	No	No Gender Restrictions	Registered Site	Rockshelter, Camp	*Registered Knowledge Holder names available from DPL	556482mE 8226464mN Zone 51 [Unreliable]	K00059
12181	UNNAMED ISLAND	No	No	No Gender Restrictions	Registered Site	Mythological	*Registered Knowledge Holder names available from DPL	536637mE 8224661mN Zone 51 [Unreliable]	K00061

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ID	Name	File Restricted	Boundary Restricted	Restrictions	Status	Type	Knowledge Holders	Coordinate	Legacy ID
12184	WATJELUM MISSION.	No	No	No Gender Restrictions	Registered Site	Camp	*Registered Knowledge Holder names available from DPL	566851mE 8204542mN Zone 51 [Reliable]	K00064
12195	WAILALKUNYA, SLATE ISLANDS	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Quarry	*Registered Knowledge Holder names available from DPL	650262mE 8282510mN Zone 51 [Reliable]	K00023
12197	LANGGI.	Yes	Yes	No Gender Restrictions	Registered Site	Artefacts / Scatter, Mythological, Painting, Skeletal Material / Burial, Camp	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00025
12198	KARIADANG, FRESHWATER COVE	Yes	Yes	No Gender Restrictions	Registered Site	Artefacts / Scatter, Mythological, Painting	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00026
12199	WODANGU	Yes	Yes	No Gender Restrictions	Registered Site	Artefacts / Scatter, Ceremonial, Painting, Skeletal Material / Burial	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00027
12200	NGUMBURI, DOUBTFUL BAY	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Mythological, Painting	*Registered Knowledge Holder names available from DPL	657137mE 8221461mN Zone 51 [Reliable]	K00028
12201	STEEP ISLAND, FOAM PASSAGE	No	No	No Gender Restrictions	Registered Site	Mythological	*Registered Knowledge Holder names available from DPL	657334mE 8223970mN Zone 51 [Reliable]	K00029
12203	KNDJAL.	Yes	Yes	No Gender Restrictions	Registered Site	Mythological, Painting, Water Source	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00031
12204	LARINYUM, SECURE BAY	No	No	No Gender Restrictions	Registered Site	Mythological, Painting	*Registered Knowledge Holder names available from DPL	645879mE 8180688mN Zone 51 [Reliable]	K00032
12205	PUDDAWATA, SECURE BAY	No	No	No Gender Restrictions	Registered Site	Quarry	*Registered Knowledge Holder names available from DPL	641277mE 8182374mN Zone 51 [Reliable]	K00033
12206	MUNJALIAMA IS, SHOAL BAY.	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Quarry, Camp	*Registered Knowledge Holder names available from DPL	633637mE 8188161mN Zone 51 [Reliable]	K00034
12207	NGERER, TALBOT BAY	No	No	No Gender Restrictions	Registered Site	Mythological	*Registered Knowledge Holder names available from DPL	602470mE 8188856mN Zone 51 [Reliable]	K00035



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ID	Name	File Restricted	Boundary Restricted	Restrictions	Status	Type	Knowledge Holders	Coordinate	Legacy ID
12208	TALBOT BAY.	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Man-Made Structure, Midden / Scatter, Camp	*Registered Knowledge Holder names available from DPL	598135mE 8198010mN Zone 51 [Unreliable]	K00036
12210	UBERNARU, TALBOT BAY.	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Rockshelter, Camp	*Registered Knowledge Holder names available from DPL	593381mE 8198407mN Zone 51 [Reliable]	K00038
12212	SURVEYORS POOL	Yes	Yes	No Gender Restrictions	Registered Site	Artefacts / Scatter, Painting, Quarry, Other: Part of Failed PA158	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K03133
12213	CRYSTAL CREEK	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Man-Made Structure, Other: Part of Failed PA 157	*Registered Knowledge Holder names available from DPL	798836mE 8387761mN Zone 51 [Reliable]	K03134
12219	GIRRIWAI	Yes	Yes	No Gender Restrictions	Registered Site	Man-Made Structure, Mythological, Painting	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K03140
12220	BOAB TREE	No	No	No Gender Restrictions	Registered Site	Ceremonial	*Registered Knowledge Holder names available from DPL	802336mE 8398761mN Zone 51 [Unreliable]	K03141
12221	GUNAK	Yes	Yes	No Gender Restrictions	Registered Site	Mythological	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K03142
12222	TUDU	Yes	Yes	No Gender Restrictions	Registered Site	Mythological	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K03143
12230	BARINBAR, SWAN POINT	Yes	Yes	No Gender Restrictions	Registered Site	Ceremonial	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00005
12231	CYGNET HILL/ONE ARM POINT	Yes	Yes	No Gender Restrictions	Registered Site	Ceremonial, Repository / Cache	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00006
12232	STORRY HILL	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Quarry	*Registered Knowledge Holder names available from DPL	501565mE 8188811mN Zone 51 [Reliable]	K00007
12234	CAPE LEVEQUE	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Quarry	*Registered Knowledge Holder names available from DPL	492065mE 8187568mN Zone 51 [Unreliable]	K00009

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ID	Name	File Restricted	Boundary Restricted	Restrictions	Status	Type	Knowledge Holders	Coordinate	Legacy ID
12242	OUTCROP STRUCTURE	No	No	No Gender Restrictions	Registered Site	Man-Made Structure	*Registered Knowledge Holder names available from DPL	792736mE 8368561mN Zone 51 [Reliable]	K03109
12243	CRYSTAL CREEK WHITE CIRCLE	No	No	No Gender Restrictions	Registered Site	Man-Made Structure, Other: Part of Failed PA 157	*Registered Knowledge Holder names available from DPL	800636mE 8397661mN Zone 51 [Unreliable]	K03110
12245	WALSH POINT ROAD	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Man-Made Structure	*Registered Knowledge Holder names available from DPL	800136mE 8384161mN Zone 51 [Reliable]	K03112
12248	PORT WARRENDER MONOLITH	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Man-Made Structure	*Registered Knowledge Holder names available from DPL	801336mE 8385861mN Zone 51 [Reliable]	K03115
12249	UPPER CRYSTAL CREEK CIST	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Man-Made Structure, Other: Part of failed PA 157	*Registered Knowledge Holder names available from DPL	800336mE 8385961mN Zone 51 [Unreliable]	K03116
12251	LONE BOAB	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Man-Made Structure	*Registered Knowledge Holder names available from DPL	801536mE 8385361mN Zone 51 [Unreliable]	K03118
12263	PUNUWANDANGGA	Yes	Yes	No Gender Restrictions	Registered Site	Artefacts / Scatter, Midden / Scatter, Mythological, Other: Part of Failed PA 167	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K03130
12264	UNARRUNGU.	Yes	Yes	No Gender Restrictions	Registered Site	Artefacts / Scatter, Man-Made Structure, Midden / Scatter, Mythological, Camp	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K03131
12266	LITTLE HAVEN(CRYSTAL HEAD).	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Midden / Scatter, Camp, Other: Failed PA 160	*Registered Knowledge Holder names available from DPL	792736mE 8397261mN Zone 51 [Reliable]	K03079
12267	SPRING SHELTER.	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Painting, Quarry, Arch Deposit, Other: ? Part of Failed PA 156	*Registered Knowledge Holder names available from DPL	792636mE 8390261mN Zone 51 [Unreliable]	K03080
12268	CRESTED GREBE.	Yes	Yes	No Gender Restrictions	Registered Site	Artefacts / Scatter, Midden / Scatter, Mythological, Painting, Arch Deposit, Other: Part of Failed PA 156	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K03081
12269	ANT MEN SHELTER	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Painting, Other: Part of Failed PA 156	*Registered Knowledge Holder names available from DPL	792336mE 8396761mN Zone 51 [Unreliable]	K03082



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ID	Name	File Restricted	Boundary Restricted	Restrictions	Status	Type	Knowledge Holders	Coordinate	Legacy ID
12270	BOAB EGG	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Man-Made Structure, Other: Failed PA 166	*Registered Knowledge Holder names available from DPL	807636mE 8377661mN Zone 51 [Unreliable]	K03083
12271	PLACED STONES	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Man-Made Structure, Mythological	*Registered Knowledge Holder names available from DPL	804636mE 8376661mN Zone 51 [Unreliable]	K03084
12278	PORT WARRENDER CIRCLE	No	No	No Gender Restrictions	Registered Site	Man-Made Structure, Midden / Scatter	*Registered Knowledge Holder names available from DPL	810636mE 8381661mN Zone 51 [Unreliable]	K03091
12279	QUARTZ STRUCTURES	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Man-Made Structure	*Registered Knowledge Holder names available from DPL	796536mE 8370161mN Zone 51 [Unreliable]	K03092
12281	E MITCHELL RIVER.	No	No	No Gender Restrictions	Registered Site	Man-Made Structure, Camp	*Registered Knowledge Holder names available from DPL	797636mE 8369661mN Zone 51 [Unreliable]	K03094
12283	MITCHELL RIVER.	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Painting, Quarry, Arch Deposit	*Registered Knowledge Holder names available from DPL	788136mE 8369161mN Zone 51 [Unreliable]	K03096
12287	WARRARAWAL.	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Man-Made Structure, Modified Tree, Camp	*Registered Knowledge Holder names available from DPL	798836mE 8393361mN Zone 51 [Reliable]	K03100
12288	DJARIYU.	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Camp	*Registered Knowledge Holder names available from DPL	800636mE 8395661mN Zone 51 [Unreliable]	K03101
12316	WUNGARINGI.	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Man-Made Structure, Rockshelter, Hunting Place, Water Source	*Registered Knowledge Holder names available from DPL	796536mE 8404861mN Zone 51 [Reliable]	K03076
12317	PICKERING POINT.	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Hunting Place	*Registered Knowledge Holder names available from DPL	793836mE 8404761mN Zone 51 [Reliable]	K03077
12318	GURUWA.	Yes	Yes	No Gender Restrictions	Registered Site	Artefacts / Scatter, Midden / Scatter, Painting, Camp	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K03078



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ID	Name	File Restricted	Boundary Restricted	Restrictions	Status	Type	Knowledge Holders	Coordinate	Legacy ID
12320	WUNDUL-LIRIA.	Yes	Yes	No Gender Restrictions	Registered Site	Artefacts / Scatter, Ceremonial, Man-Made Structure, Mythological, Painting, Quarry, Skeletal Material / Burial, Arch Deposit, Camp, Other: ?. Failed PA 162. Also part of Failed PA 158	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K03028
12321	AUNAUYU.	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Painting, Arch Deposit, Other: ?.Part of Failed PA 158	*Registered Knowledge Holder names available from DPL	793636mE 8375961mN Zone 51 [Unreliable]	K03029
12322	AUNAUYU	Yes	Yes	No Gender Restrictions	Registered Site	Artefacts / Scatter, Man-Made Structure, Mythological, Other: Part of Failed PA 158?	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K03030
12324	SURVEYORS POOL	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Other: Part of Failed PA 158	*Registered Knowledge Holder names available from DPL	794436mE 8375761mN Zone 51 [Unreliable]	K03032
12325	SURVEYORS POOL.	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Ceremonial, Grinding Patches / Grooves, Man-Made Structure, Camp, Other: Part of PA158?	*Registered Knowledge Holder names available from DPL	794636mE 8376061mN Zone 51 [Unreliable]	K03033
12352	BOAB FALLS	Yes	Yes	No Gender Restrictions	Registered Site	Artefacts / Scatter, Man-Made Structure, Midden / Scatter	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K03008
12353	EMU BERRY SPRING.	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Midden / Scatter, Camp, Water Source, Other: ?	*Registered Knowledge Holder names available from DPL	800486mE 8395661mN Zone 51 [Unreliable]	K03009
12354	SALT/ FRESH JUNCTION	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Man-Made Structure, Midden / Scatter, Quarry, Skeletal Material / Burial	*Registered Knowledge Holder names available from DPL	801636mE 8397661mN Zone 51 [Unreliable]	K03010
12358	TERRACE SITE & CRACK.	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Man-Made Structure, Midden / Scatter, Camp, Other: Part of Failed PA 167	*Registered Knowledge Holder names available from DPL	803736mE 8385661mN Zone 51 [Unreliable]	K03014
12374	SECURE BAY QUARRY 01	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Quarry	*Registered Knowledge Holder names available from DPL	650227mE 8180725mN Zone 51 [Reliable]	K02837

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ID	Name	File Restricted	Boundary Restricted	Restrictions	Status	Type	Knowledge Holders	Coordinate	Legacy ID
12375	SECURE BAY QUARRY 02	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Quarry	*Registered Knowledge Holder names available from DPL	650075mE 8180570mN Zone 51 [Reliable]	K02838
12387	BOONGINJ-GOON	Yes	Yes	No Gender Restrictions	Registered Site	Ceremonial, Mythological	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K02850
12388	CULENUGOON BEACH	Yes	Yes	No Gender Restrictions	Registered Site	Ceremonial	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K02851
12389	SWAN POINT ULLULONG GROUND	Yes	Yes	No Gender Restrictions	Registered Site	Artefacts / Scatter, Ceremonial	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K02852
12410	LINTAPITJIN/LOT 2065PORT DR	Yes	Yes	No Gender Restrictions	Registered Site	Artefacts / Scatter, Ceremonial, Midden / Scatter, Mythological	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K02819
12412	THANGOO CEMETERY	No	No	No Gender Restrictions	Registered Site	Skeletal Material / Burial	*Registered Knowledge Holder names available from DPL	432337mE 7989906mN Zone 51 [Reliable]	K02822
12429	GNH LOT 1208	No	No	No Gender Restrictions	Registered Site	Skeletal Material / Burial	*Registered Knowledge Holder names available from DPL	420554mE 8019455mN Zone 51 [Reliable]	K02785
12442	LAW GROUND-YINJALLAN BURU	Yes	Yes	No Gender Restrictions	Registered Site	Ceremonial	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K02798
12443	ULLULLONG GROUND-MALAMBUBUR	Yes	Yes	No Gender Restrictions	Registered Site	Ceremonial	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K02799
12468	GALYUNGA	Yes	Yes	No Gender Restrictions	Registered Site	Ceremonial, Fish Trap, Mythological	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K02772
12469	GUNJI CEREMONIAL GROUND	Yes	Yes	No Gender Restrictions	Registered Site	Ceremonial	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K02773
12470	GULGUDUNG	Yes	Yes	No Gender Restrictions	Registered Site	Mythological	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K02774

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ID	Name	File Restricted	Boundary Restricted	Restrictions	Status	Type	Knowledge Holders	Coordinate	Legacy ID
12471	MARUNGUDA	Yes	Yes	No Gender Restrictions	Registered Site	Mythological	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K02775
12472	BUDALGI	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Midden / Scatter	*Registered Knowledge Holder names available from DPL	433337mE 8016561mN Zone 51 [Reliable]	K02776
12473	TIPS TANK MIDDEN.	No	No	No Gender Restrictions	Registered Site	Midden / Scatter, Camp, Water Source	*Registered Knowledge Holder names available from DPL	374837mE 7937961mN Zone 51 [Reliable]	K02777
12475	MARARR.	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Midden / Scatter, Water Source	*Registered Knowledge Holder names available from DPL	423358mE 7987165mN Zone 51 [Unreliable]	K02779
12517	SOUTH WEST OSBORNE ISLAND.	Yes	Yes	No Gender Restrictions	Registered Site	Mythological, Painting, Rockshelter, Camp, Shell, Other: ?	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K02717
12521	SAVAGE HILL	No	No	No Gender Restrictions	Registered Site	Man-Made Structure	*Registered Knowledge Holder names available from DPL	734836mE 8381271mN Zone 51 [Reliable]	K02721
12522	ONE MILE CAMP.	No	No	No Gender Restrictions	Registered Site	Camp	*Registered Knowledge Holder names available from DPL	419599mE 8017210mN Zone 51 [Reliable]	K02722
12550	CONDINI LANDING WEST	No	No	No Gender Restrictions	Registered Site	Skeletal Material / Burial	*Registered Knowledge Holder names available from DPL	737640mE 7789656mN Zone 50 [Unreliable]	K02698
12552	CLEMENTSON ST. SITE COMPLEX	Yes	Yes	No Gender Restrictions	Registered Site	Ceremonial, Mythological	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K02700
12590	RED BANK.	No	No	No Gender Restrictions	Registered Site	Fish Trap, Midden / Scatter, Mythological, Camp	*Registered Knowledge Holder names available from DPL	419087mE 8012861mN Zone 51 [Unreliable]	K02636
12591	BROOME OLD JETTY.	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Ceremonial, Midden / Scatter, Mythological, Water Source	*Registered Knowledge Holder names available from DPL	419220mE 8012902mN Zone 51 [Reliable]	K02637
12658	BRECKNOCK ISLAND	No	No	No Gender Restrictions	Registered Site	Man-Made Structure	*Registered Knowledge Holder names available from DPL	672499mE 8292518mN Zone 51 [Unreliable]	K02547

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ID	Name	File Restricted	Boundary Restricted	Restrictions	Status	Type	Knowledge Holders	Coordinate	Legacy ID
12661	DESFONTAINES ISLAND WEST	No	No	No Gender Restrictions	Registered Site	Man-Made Structure	*Registered Knowledge Holder names available from DPL	697230mE 8338303mN Zone 51 [Reliable]	K02550
12663	CORONATION ISLAND	No	No	No Gender Restrictions	Registered Site	Man-Made Structure	*Registered Knowledge Holder names available from DPL	707637mE 8339661mN Zone 51 [Unreliable]	K02552
12664	ROTHSAY WATER	No	No	No Gender Restrictions	Registered Site	Man-Made Structure	*Registered Knowledge Holder names available from DPL	707342mE 8316827mN Zone 51 [Unreliable]	K02553
12669	CONE BAY	No	No	No Gender Restrictions	Registered Site	Man-Made Structure	*Registered Knowledge Holder names available from DPL	554337mE 8184661mN Zone 51 [Reliable]	K02558
12670	SHOAL BAY	No	No	No Gender Restrictions	Registered Site	Man-Made Structure	*Registered Knowledge Holder names available from DPL	635237mE 8184661mN Zone 51 [Reliable]	K02559
12672	SALE RIVER	Yes	Yes	No Gender Restrictions	Registered Site	Man-Made Structure	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K02561
12677	HEYWOOD ISLAND	No	No	No Gender Restrictions	Registered Site	Man-Made Structure	*Registered Knowledge Holder names available from DPL	642691mE 8304486mN Zone 51 [Unreliable]	K02566
12685	BUNGARUGUN.	Yes	Yes	No Gender Restrictions	Registered Site	Artefacts / Scatter, Fish Trap, Midden / Scatter, Skeletal Material / Burial, Camp, Water Source	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K02521
12686	ENTRANCE ISLAND.	Yes	Yes	No Gender Restrictions	Registered Site	Painting, Skeletal Material / Burial, Camp	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K02522
12697	WIBIJAKUN.	No	No	No Gender Restrictions	Registered Site	Midden / Scatter, Named Place	*Registered Knowledge Holder names available from DPL	416221mE 8040237mN Zone 51 [Reliable]	K02533
12705	BIGGE ISLAND	Yes	Yes	No Gender Restrictions	Registered Site	Painting	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K02541
12720	DULI CAVE.	No	No	No Gender Restrictions	Registered Site	Ceremonial, Mythological, Rockshelter, Camp	*Registered Knowledge Holder names available from DPL	784636mE 8456661mN Zone 51 [Unreliable]	K02503

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ID	Name	File Restricted	Boundary Restricted	Restrictions	Status	Type	Knowledge Holders	Coordinate	Legacy ID
12722	DIDJI POINT.	No	No	No Gender Restrictions	Registered Site	Man-Made Structure, Mythological, Named Place	*Registered Knowledge Holder names available from DPL	784147mE 8455259mN Zone 51 [Unreliable]	K02505
12725	DIDJI WELLS.	No	No	No Gender Restrictions	Registered Site	Mythological, Water Source	*Registered Knowledge Holder names available from DPL	784136mE 8457161mN Zone 51 [Unreliable]	K02508
12726	CASSINI STONE LINE	No	No	No Gender Restrictions	Registered Site	Man-Made Structure, Mythological	*Registered Knowledge Holder names available from DPL	784036mE 8456942mN Zone 51 [Reliable]	K02509
12727	CASSINI STONE CIRCLES	No	No	No Gender Restrictions	Registered Site	Man-Made Structure, Mythological	*Registered Knowledge Holder names available from DPL	784436mE 8456161mN Zone 51 [Unreliable]	K02510
12780	HUNTER RIVER 1	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Mythological, Painting	*Registered Knowledge Holder names available from DPL	770136mE 8345961mN Zone 51 [Reliable]	K02456
12793	UNDANDA.	Yes	Yes	No Gender Restrictions	Registered Site	Ceremonial, Grinding Patches / Grooves, Midden / Scatter, Mythological, Camp	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K02417
12835	LAMBINJINMAN.	No	No	No Gender Restrictions	Registered Site	Midden / Scatter, Named Place	*Registered Knowledge Holder names available from DPL	417365mE 8026042mN Zone 51 [Unreliable]	K02405
12838	JILBANUNG.	No	No	No Gender Restrictions	Registered Site	Midden / Scatter, Camp	*Registered Knowledge Holder names available from DPL	417389mE 8022550mN Zone 51 [Reliable]	K02408
12839	BILLINGURRU.	Yes	Yes	Male Access Only	Registered Site	Ceremonial, Mythological, Camp	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K02409
12842	INBALMARRA.	Yes	Yes	No Gender Restrictions	Registered Site	Artefacts / Scatter, Ceremonial, Midden / Scatter, Mythological, Quarry, Camp	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K02412
12872	GANTHEAUME POINT 2.	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Midden / Scatter, Camp	*Registered Knowledge Holder names available from DPL	415637mE 8009361mN Zone 51 [Reliable]	K02331
12873	ENTRANCE POINT/YINARA.	Yes	Yes	No Gender Restrictions	Registered Site	Artefacts / Scatter, Midden / Scatter, Mythological, Camp	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K02332



## Aboriginal Heritage Inquiry System

### List of Registered Aboriginal Sites

ID	Name	File Restricted	Boundary Restricted	Restrictions	Status	Type	Knowledge Holders	Coordinate	Legacy ID
12875	BARRED CREEK	Yes	Yes	Male Access Only	Registered Site	Ceremonial	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K02334
12880	LOCHMAN 1	No	No	No Gender Restrictions	Registered Site	Painting	*Registered Knowledge Holder names available from DPL	786636mE 8365661mN Zone 51 [Unreliable]	K02339
12881	LOCHMAN 2	No	No	No Gender Restrictions	Registered Site	Painting	*Registered Knowledge Holder names available from DPL	786636mE 8366661mN Zone 51 [Unreliable]	K02340
12882	LOCHMAN 3	Yes	Yes	No Gender Restrictions	Registered Site	Mythological, Painting, Skeletal Material / Burial	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K02341
12888	BALJARKURUKUN.	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Midden / Scatter, Quarry, Named Place	*Registered Knowledge Holder names available from DPL	416336mE 8029372mN Zone 51 [Reliable]	K02347
12902	KUNDANDU.	Yes	Yes	No Gender Restrictions	Registered Site	Artefacts / Scatter, Midden / Scatter, Mythological, Camp, Water Source, Other: Part of failed PA 139. ACMC Res 11/89	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K02308
12903	MURRJAL.	Yes	Yes	Female Access Only	Registered Site	Artefacts / Scatter, Midden / Scatter, Mythological, Camp, Water Source, Other: Part of failed PA 139. ACMC Res11/89	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K02309
12904	RURRJAMAN.	Yes	Yes	No Gender Restrictions	Registered Site	Artefacts / Scatter, Midden / Scatter, Mythological, Camp, Plant Resource, Water Source, Other: Part of failed PA 139. ACMC Res 11/89	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K02310
12905	NORTH BARRED CREEK.	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Midden / Scatter, Water Source	*Registered Knowledge Holder names available from DPL	414237mE 8047061mN Zone 51 [Unreliable]	K02311
12906	WILLIES CREEK COMPLEX.	Yes	Yes	No Gender Restrictions	Registered Site	Artefacts / Scatter, Ceremonial, Midden / Scatter, Mythological, Skeletal Material / Burial, Camp, Hunting Place, Named Place, Water Source	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K02312

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ID	Name	File Restricted	Boundary Restricted	Restrictions	Status	Type	Knowledge Holders	Coordinate	Legacy ID
12907	COCONUT WELL 2	No	No	No Gender Restrictions	Registered Site	Midden / Scatter	*Registered Knowledge Holder names available from DPL	416037mE 8030361mN Zone 51 [Reliable]	K02313
12908	COCONUT WELL 1.	Yes	Yes	No Gender Restrictions	Registered Site	Artefacts / Scatter, Midden / Scatter, Mythological, Water Source	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K02314
12909	COCONUT WELL ISLAND	Yes	Yes	No Gender Restrictions	Registered Site	Artefacts / Scatter, Midden / Scatter	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K02315
12910	NORTH CABLE BEACH 6	No	No	No Gender Restrictions	Registered Site	Midden / Scatter	*Registered Knowledge Holder names available from DPL	417137mE 8023861mN Zone 51 [Reliable]	K02316
12911	NORTH CABLE BEACH 5	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Midden / Scatter	*Registered Knowledge Holder names available from DPL	417237mE 8023261mN Zone 51 [Reliable]	K02317
12912	JURLIRR.	Yes	Yes	No Gender Restrictions	Registered Site	Artefacts / Scatter, Ceremonial, Midden / Scatter, Mythological, Water Source, Other: Failed PA 142. APMC Res 11/89	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K02318
12913	NORTH CABLE BEACH 4	No	No	No Gender Restrictions	Registered Site	Midden / Scatter	*Registered Knowledge Holder names available from DPL	417637mE 8022261mN Zone 51 [Reliable]	K02319
12914	NORTH CABLE BEACH 3	No	No	No Gender Restrictions	Registered Site	Midden / Scatter	*Registered Knowledge Holder names available from DPL	417637mE 8021961mN Zone 51 [Reliable]	K02320
12915	NORTH CABLE BEACH 2	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Midden / Scatter	*Registered Knowledge Holder names available from DPL	416737mE 8021761mN Zone 51 [Reliable]	K02321
12916	NORTH CABLE BEACH 1	No	No	No Gender Restrictions	Registered Site	Midden / Scatter	*Registered Knowledge Holder names available from DPL	416737mE 8021061mN Zone 51 [Reliable]	K02322
12917	CABLE BEACH 6.	Yes	Yes	No Gender Restrictions	Registered Site	Midden / Scatter, Camp, Meeting Place, Water Source	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K02323
12918	CABLE BEACH 4.	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Midden / Scatter, Camp, Water Source, Other: Part of Failed PA 143. APMC Res 11/89	*Registered Knowledge Holder names available from DPL	416087mE 8016161mN Zone 51 [Unreliable]	K02324

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ID	Name	File Restricted	Boundary Restricted	Restrictions	Status	Type	Knowledge Holders	Coordinate	Legacy ID
12919	CABLE BEACH 2	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Midden / Scatter, Other: Part of Failed PA 143. ACMC Res 11/89	*Registered Knowledge Holder names available from DPL	414737mE 8013361mN Zone 51 [Reliable]	K02325
12920	CABLE BEACH 1	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Midden / Scatter, Other: Part of Failed PA 143. ACMC Res 11/89	*Registered Knowledge Holder names available from DPL	413737mE 8012661mN Zone 51 [Reliable]	K02326
12921	MINYIRR.	Yes	Yes	No Gender Restrictions	Registered Site	Mythological, Water Source, Other: Part of Failed PA 143. ACMC Res 11/89	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K02327
12922	JUNGKURR	Yes	Yes	No Gender Restrictions	Registered Site	Mythological, Other: Part of Failed PA 143. ACMC Res 11/89	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K02328
12923	NGAKALYALYA	Yes	Yes	No Gender Restrictions	Registered Site	Mythological, Other: Part of Failed PA 143. ACMC Res 11/89	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K02329
12924	GANTHEAUME POINT 1	Yes	Yes	No Gender Restrictions	Registered Site	Artefacts / Scatter, Midden / Scatter, Mythological, Other: Part of Failed PA143. ACMC Res 11/89	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K02330
12944	KURAKARAMUNJUNO 1.	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Midden / Scatter, Camp	*Registered Knowledge Holder names available from DPL	410237mE 8079761mN Zone 51 [Reliable]	K02298
12945	KURAKARAMUNJUNO 2.	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Midden / Scatter, Camp	*Registered Knowledge Holder names available from DPL	410137mE 8079361mN Zone 51 [Reliable]	K02299
12946	KURAKARAMUNJUNO 3.	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Midden / Scatter, Camp	*Registered Knowledge Holder names available from DPL	410287mE 8078761mN Zone 51 [Reliable]	K02300
12947	KURAKARAMUNJUNO 4.	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Midden / Scatter, Camp, Water Source	*Registered Knowledge Holder names available from DPL	410237mE 8077161mN Zone 51 [Unreliable]	K02301
12948	FLAT ROCK 1.	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Midden / Scatter	*Registered Knowledge Holder names available from DPL	410037mE 8076461mN Zone 51 [Reliable]	K02302
12949	FLAT ROCK 2.	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Midden / Scatter	*Registered Knowledge Holder names available from DPL	409737mE 8076161mN Zone 51 [Reliable]	K02303

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ID	Name	File Restricted	Boundary Restricted	Restrictions	Status	Type	Knowledge Holders	Coordinate	Legacy ID
12950	KULMUKARAKUN JUNO 1	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Midden / Scatter	*Registered Knowledge Holder names available from DPL	409887mE 8073161mN Zone 51 [Reliable]	K02304
12964	CAPE KERAUDREN 2	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter	*Registered Knowledge Holder names available from DPL	791440mE 7789156mN Zone 50 [Reliable]	K02265
12965	CAPE KERAUDREN 3.	Yes	Yes	No Gender Restrictions	Registered Site	Artefacts / Scatter, Midden / Scatter, Camp, Water Source	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K02266
12966	CAPE KERAUDREN 4	No	No	No Gender Restrictions	Registered Site	Midden / Scatter	*Registered Knowledge Holder names available from DPL	788440mE 7786856mN Zone 50 [Reliable]	K02267
12967	CAPE KERAUDREN 5	Yes	Yes	No Gender Restrictions	Registered Site	Midden / Scatter, Skeletal Material / Burial	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K02268
12968	CAPE KERAUDREN 6	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Grinding Patches / Grooves, Midden / Scatter	*Registered Knowledge Holder names available from DPL	791940mE 7789556mN Zone 50 [Reliable]	K02269
12969	WARRA MURRANGA TALU	Yes	Yes	No Gender Restrictions	Registered Site	Ceremonial, Mythological	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K02270
13014	BARGAJOC SOAK.	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Water Source	*Registered Knowledge Holder names available from DPL	444911mE 8129056mN Zone 51 [Reliable]	K02206
13015	BARGAJOC DUNES.	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Midden / Scatter, Camp	*Registered Knowledge Holder names available from DPL	444534mE 8129425mN Zone 51 [Reliable]	K02207
13016	BARGAJOC BURIAL	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Midden / Scatter, Skeletal Material / Burial	*Registered Knowledge Holder names available from DPL	444447mE 8129851mN Zone 51 [Reliable]	K02208
13017	BARGAJOC FISHTRAPS	No	No	No Gender Restrictions	Registered Site	Fish Trap	*Registered Knowledge Holder names available from DPL	444302mE 8130134mN Zone 51 [Reliable]	K02209
13019	LONGINI ROCKSHELTER.	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Engraving, Grinding Patches / Grooves, Midden / Scatter, Painting, Quarry, Camp	*Registered Knowledge Holder names available from DPL	244934mE 8423864mN Zone 52 [Unreliable]	K02211

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ID	Name	File Restricted	Boundary Restricted	Restrictions	Status	Type	Knowledge Holders	Coordinate	Legacy ID
13032	HIGH CLIFFY IS: SHELTER 1.	Yes	Yes	No Gender Restrictions	Registered Site	Painting, Arch Deposit, Camp	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K02172
13033	HIGH CLIFFY IS: STRUCTURE.	Yes	Yes	No Gender Restrictions	Registered Site	Artefacts / Scatter, Man-Made Structure, Arch Deposit, Camp	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K02173
13034	HIGH CLIFFY IS: OPEN CAMP.	Yes	Yes	No Gender Restrictions	Registered Site	Artefacts / Scatter, Camp	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K02174
13035	HIGH CLIFFY IS: SHELTER 2	Yes	Yes	No Gender Restrictions	Registered Site	Painting, Skeletal Material / Burial	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K02175
13036	HIGH CLIFFY IS: SHELTER 3	Yes	Yes	No Gender Restrictions	Registered Site	Painting	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K02176
13037	WIDGINGARRI SHELTER 1.	Yes	Yes	No Gender Restrictions	Registered Site	Man-Made Structure, Painting, Rockshelter, BP Dating: 28,060+/-600BP, Camp	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K02177
13038	WIDGINGARRI SHELTER 3.	Yes	Yes	No Gender Restrictions	Registered Site	Painting, Camp	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K02179
13039	WIDGINGARRI SHELTER 4.	Yes	Yes	No Gender Restrictions	Registered Site	Painting, Camp	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K02180
13040	WIDGINGARRI SHELTER 5.	Yes	Yes	No Gender Restrictions	Registered Site	Man-Made Structure, Painting, Camp	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K02181
13041	WIDGINGARRI SHELTER 6	Yes	Yes	No Gender Restrictions	Registered Site	Painting	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K02182
13042	WIDGINGARRI SHELTER 7.	Yes	Yes	No Gender Restrictions	Registered Site	Painting, Camp	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K02183
13044	WIDGINGARRI SHELTER 9.	Yes	Yes	No Gender Restrictions	Registered Site	Mythological, Painting, Camp	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K02185

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ID	Name	File Restricted	Boundary Restricted	Restrictions	Status	Type	Knowledge Holders	Coordinate	Legacy ID
13045	WIDGINGARRI SHELTER 10.	Yes	Yes	No Gender Restrictions	Registered Site	Artefacts / Scatter, Mythological, Painting, Arch Deposit, Camp	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K02186
13046	WIDGINGARRI SHELTER 11.	Yes	Yes	No Gender Restrictions	Registered Site	Mythological, Painting, Arch Deposit, Camp	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K02187
13047	WIDGINGARRI SHELTER 12.	Yes	Yes	No Gender Restrictions	Registered Site	Mythological, Painting, Camp	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K02188
13049	WIDGINGARRI SHELTER 14.	Yes	Yes	No Gender Restrictions	Registered Site	Painting, Camp	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K02190
13050	WIDGINGARRI SHELTER 15.	Yes	Yes	No Gender Restrictions	Registered Site	Rockshelter, Camp	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K02191
13052	HUNTERS BEACH CEMETERY	No	No	No Gender Restrictions	Registered Site	Man-Made Structure, Skeletal Material / Burial	*Registered Knowledge Holder names available from DPL	496824mE 8186329mN Zone 51 [Reliable]	K02193
13053	ONE ARM POINT CEMETERY	No	No	No Gender Restrictions	Registered Site	Man-Made Structure, Skeletal Material / Burial	*Registered Knowledge Holder names available from DPL	507537mE 8181661mN Zone 51 [Unreliable]	K02194
13075	MANGALAGUN+IWALANG ANJDANJ.	Yes	Yes	No Gender Restrictions	Registered Site	Artefacts / Scatter, Midden / Scatter, Mythological, BP Dating: 3640, Water Source	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K02163
13076	WALMADAN (James Price Point)	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Fish Trap, Midden / Scatter, Skeletal Material / Burial, BP Dating: 1,300, Camp, Hunting Place, Water Source, Other: Part of Failed PA 139. ACMC Res 11/89	*Registered Knowledge Holder names available from DPL	409429mE 8065351mN Zone 51 [Reliable]	K02164
13234	MARANGWIN	No	No	No Gender Restrictions	Registered Site	Mythological	*Registered Knowledge Holder names available from DPL	569637mE 8165661mN Zone 51 [Unreliable]	K02000
13236	WANGARRAY.	No	No	No Gender Restrictions	Registered Site	Ceremonial, Man-Made Structure, Camp, Water Source	*Registered Knowledge Holder names available from DPL	574637mE 8162661mN Zone 51 [Unreliable]	K02002

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ID	Name	File Restricted	Boundary Restricted	Restrictions	Status	Type	Knowledge Holders	Coordinate	Legacy ID
13302	DOUBTFUL BAY	No	No	No Gender Restrictions	Registered Site	Mythological	*Registered Knowledge Holder names available from DPL	665138mE 8235161mN Zone 51 [Unreliable]	K01909
13306	DJADJUG.	No	No	No Gender Restrictions	Registered Site	Camp	*Registered Knowledge Holder names available from DPL	559108mE 8220228mN Zone 51 [Unreliable]	K01913
13307	IRVINE ISLAND: ROCKSHELTER	Yes	Yes	Male Access Only	Registered Site	Mythological, Painting	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K01914
13309	IRVINE ISLAND: BURIAL 1	Yes	Yes	Male Access Only	Registered Site	Skeletal Material / Burial	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K01916
13310	IRVINE ISLAND: BURIAL 2	Yes	Yes	Male Access Only	Registered Site	Skeletal Material / Burial	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K01917
13311	WINDJIMIR.	Yes	Yes	Male Access Only	Registered Site	Skeletal Material / Burial, Camp, Water Source	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K01918
13312	IRVINE ISLAND: STONEMOUND 1	Yes	Yes	Male Access Only	Registered Site	Man-Made Structure	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K01919
13313	IRVINE ISLAND: STONEMOUND 2	Yes	Yes	Male Access Only	Registered Site	Man-Made Structure, Skeletal Material / Burial	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K01920
13314	IRVINE ISLAND: CAMP 1.	Yes	Yes	Male Access Only	Registered Site	Camp, Hunting Place	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K01921
13315	IRVINE ISLAND: CAMP 2.	Yes	Yes	Male Access Only	Registered Site	Camp	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K01922
13316	MAROLORR.	Yes	Yes	Male Access Only	Registered Site	Camp	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K01923
13317	IRVINE ISLAND: MYTH	Yes	Yes	Male Access Only	Registered Site	Mythological	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K01924

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ID	Name	File Restricted	Boundary Restricted	Restrictions	Status	Type	Knowledge Holders	Coordinate	Legacy ID
13320	WUNDORDA	Yes	Yes	No Gender Restrictions	Registered Site	Artefacts / Scatter, Ceremonial, Midden / Scatter	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K01927
13321	BULGURGUN.	Yes	Yes	No Gender Restrictions	Registered Site	Artefacts / Scatter, Midden / Scatter, Mythological, Water Source	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K01928
13337	DORNEY ISLAND	No	No	No Gender Restrictions	Registered Site	Skeletal Material / Burial	*Registered Knowledge Holder names available from DPL	544637mE 8200661mN Zone 51 [Unreliable]	K01886
13350	FRAZIER DOWNS BEACH	No	No	No Gender Restrictions	Registered Site	Skeletal Material / Burial	*Registered Knowledge Holder names available from DPL	357192mE 7924475mN Zone 51 [Reliable]	K01902
13351	NGILIRIRBANJIN	Yes	Yes	Male Access Only	Registered Site	Ceremonial	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K01903
13373	SUCCESS STRAIT	Yes	Yes	Male Access Only	Registered Site	Ceremonial, Man-Made Structure	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K01814
13384	KOOLAN ISLAND.	Yes	Yes	No Gender Restrictions	Registered Site	Artefacts / Scatter, Midden / Scatter, Mythological, Painting, Skeletal Material / Burial, Arch Deposit	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K01773
13385	KOOLAN ISLAND.	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Midden / Scatter, Rockshelter, Arch Deposit	*Registered Knowledge Holder names available from DPL	573382mE 8218658mN Zone 51 [Reliable]	K01774
13386	KOOLAN ISLAND.	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Midden / Scatter, Rockshelter, Arch Deposit	*Registered Knowledge Holder names available from DPL	573382mE 8218658mN Zone 51 [Reliable]	K01775
13387	KOOLAN ISLAND.	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Midden / Scatter, Rockshelter, Arch Deposit, BP Dating: 26, 500+/-1050BP, Camp	*Registered Knowledge Holder names available from DPL	573382mE 8218658mN Zone 51 [Reliable]	K01776
13388	YAMPI SOUND.	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Midden / Scatter, Rockshelter, Arch Deposit, Other: ?	*Registered Knowledge Holder names available from DPL	566248mE 8212466mN Zone 51 [Reliable]	K01777
13389	IRVINE ISLAND: MIDDEN	No	No	No Gender Restrictions	Registered Site	Midden / Scatter, Other: 1 Artefact	*Registered Knowledge Holder names available from DPL	556738mE 8221664mN Zone 51 [Unreliable]	K01778



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ID	Name	File Restricted	Boundary Restricted	Restrictions	Status	Type	Knowledge Holders	Coordinate	Legacy ID
13390	IRVINE ISLAND: BARK BURIAL	Yes	Yes	No Gender Restrictions	Registered Site	Rockshelter, Skeletal Material / Burial	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K01779
13391	YAMPI SOUND	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Quarry	*Registered Knowledge Holder names available from DPL	564705mE 8212952mN Zone 51 [Reliable]	K01780
13392	IRON ISLAND.	Yes	Yes	No Gender Restrictions	Registered Site	Rockshelter, Skeletal Material / Burial, Other: NE(REJ	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K01781
13394	MACLEAY ISLANDS 2.	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Man-Made Structure, Quarry, Arch Deposit, Other: ?	*Registered Knowledge Holder names available from DPL	573937mE 8236361mN Zone 51 [Reliable]	K01783
13395	THE DRAIN AREA.	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Water Source	*Registered Knowledge Holder names available from DPL	578737mE 8212661mN Zone 51 [Unreliable]	K01784
13396	YAMPI SOUND	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Midden / Scatter	*Registered Knowledge Holder names available from DPL	572637mE 8213461mN Zone 51 [Unreliable]	K01785
13397	WALAMAN CREEK	Yes	Yes	No Gender Restrictions	Registered Site	Midden / Scatter, Mythological	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K01786
13398	TOOKER POINT DUNES 1.	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Midden / Scatter, Camp	*Registered Knowledge Holder names available from DPL	447858mE 8128636mN Zone 51 [Reliable]	K01787
13463	WULLULONG GROUND	Yes	Yes	No Gender Restrictions	Registered Site	Other: Proposed PA 098. APMC Res 23/77 (b)	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K01692
13464	WULLULONG GROUND	Yes	Yes	No Gender Restrictions	Registered Site		*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K01693
13465	WIRGANJU GROUND	Yes	Yes	No Gender Restrictions	Registered Site		*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K01694

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ID	Name	File Restricted	Boundary Restricted	Restrictions	Status	Type	Knowledge Holders	Coordinate	Legacy ID
13466	WONGANIN/BATHURST & IRVINE.	Yes	Yes	Male Access Only	Registered Site	Man-Made Structure, Mythological, Skeletal Material / Burial, Hunting Place, Named Place, Plant Resource, Other: LOCAL GP. Failed PA 133	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K01695
13490	KAN/BADBA A & B.	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Rockshelter, Camp, Water Source	*Registered Knowledge Holder names available from DPL	598917mE 8205287mN Zone 51 [Reliable]	K01664
13491	MAGARIM.	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Hunting Place, Water Source	*Registered Knowledge Holder names available from DPL	594160mE 8204575mN Zone 51 [Reliable]	K01665
13492	GUDJUMA.	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Quarry, Camp, Meeting Place	*Registered Knowledge Holder names available from DPL	594924mE 8203810mN Zone 51 [Reliable]	K01666
13493	ARAIRMA.	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Man-Made Structure, Midden / Scatter, Camp	*Registered Knowledge Holder names available from DPL	503337mE 8190161mN Zone 51 [Unreliable]	K01667
13497	MALAGUN	No	No	No Gender Restrictions	Registered Site	Fish Trap, Mythological	*Registered Knowledge Holder names available from DPL	502637mE 8189661mN Zone 51 [Unreliable]	K01671
13500	LALANAN	No	No	No Gender Restrictions	Registered Site	Fish Trap	*Registered Knowledge Holder names available from DPL	507637mE 8182661mN Zone 51 [Unreliable]	K01674
13501	NGALANGURU	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Man-Made Structure, Quarry	*Registered Knowledge Holder names available from DPL	643637mE 8240661mN Zone 51 [Unreliable]	K01675
13502	VINEY ISLAND	Yes	Yes	No Gender Restrictions	Registered Site	Artefacts / Scatter, Painting, Skeletal Material / Burial	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K01676
13503	WIRRAR.	Yes	Yes	No Gender Restrictions	Registered Site	Artefacts / Scatter, Midden / Scatter, Skeletal Material / Burial, Camp, Water Source	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K01677
13504	KARDILAKAN - JAJAL.	Yes	Yes	No Gender Restrictions	Registered Site	Artefacts / Scatter, Ceremonial, Fish Trap, Midden / Scatter, Mythological, Camp, Water Source, Other: Part of Failed PA 139. APMC Res 11/89	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K01678

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ID	Name	File Restricted	Boundary Restricted	Restrictions	Status	Type	Knowledge Holders	Coordinate	Legacy ID
13524	MARDUNGU	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Quarry	*Registered Knowledge Holder names available from DPL	641917mE 8238624mN Zone 51 [Reliable]	K01642
13525	KUNMUNYA MISSION 1	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Midden / Scatter	*Registered Knowledge Holder names available from DPL	681637mE 8295661mN Zone 51 [Unreliable]	K01643
13526	KUNMUNYA MISSION 2.	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Camp	*Registered Knowledge Holder names available from DPL	682637mE 8291661mN Zone 51 [Unreliable]	K01644
13528	YININDIDJA.	Yes	Yes	No Gender Restrictions	Registered Site	Artefacts / Scatter, Quarry, Water Source	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K01646
13560	LONG ISLAND 1 & 2	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter	*Registered Knowledge Holder names available from DPL	540305mE 8168139mN Zone 51 [Reliable]	K01624
13561	BOWUD.	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Midden / Scatter, Camp, Hunting Place, Water Source	*Registered Knowledge Holder names available from DPL	503537mE 8190161mN Zone 51 [Reliable]	K01626
13589	MACLEAY ISLANDS 1	No	No	No Gender Restrictions	Registered Site	Man-Made Structure	*Registered Knowledge Holder names available from DPL	574637mE 8237661mN Zone 51 [Unreliable]	K01600
13596	DAVIDSONS POINT	No	No	No Gender Restrictions	Registered Site	Man-Made Structure	*Registered Knowledge Holder names available from DPL	779636mE 8423661mN Zone 51 [Reliable]	K01555
13626	WATJELUM.	No	No	No Gender Restrictions	Registered Site	Midden / Scatter, Quarry, Camp, Other: ?	*Registered Knowledge Holder names available from DPL	565138mE 8205161mN Zone 51 [Unreliable]	K01532
13729	RESERVE 21801 BROOME	Yes	Yes	Male Access Only	Registered Site	Artefacts / Scatter, Ceremonial, Man-Made Structure, Mythological, Other: Proposed PA 087. ACMC Res 23/77	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K01380
13916	NIMLARUN.	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Midden / Scatter, Skeletal Material / Burial, Arch Deposit, Camp, Other: ?	*Registered Knowledge Holder names available from DPL	490737mE 8183361mN Zone 51 [Unreliable]	K01177
13917	GURRUDUN.	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Midden / Scatter, Camp	*Registered Knowledge Holder names available from DPL	490637mE 8183161mN Zone 51 [Reliable]	K01178

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ID	Name	File Restricted	Boundary Restricted	Restrictions	Status	Type	Knowledge Holders	Coordinate	Legacy ID
13918	DJEBUNDUN.	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Midden / Scatter, Camp	*Registered Knowledge Holder names available from DPL	490637mE 8183461mN Zone 51 [Reliable]	K01179
13919	DJILUN.	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Man-Made Structure, Midden / Scatter, Camp, Water Source	*Registered Knowledge Holder names available from DPL	490637mE 8183161mN Zone 51 [Reliable]	K01180
13920	GNAMAGUN.	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Midden / Scatter, Camp	*Registered Knowledge Holder names available from DPL	490370mE 8183102mN Zone 51 [Reliable]	K01181
13921	GARRADARRADUN.	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Midden / Scatter, Camp	*Registered Knowledge Holder names available from DPL	490537mE 8182961mN Zone 51 [Reliable]	K01182
13922	GIRALGUN.	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Midden / Scatter, Camp, Water Source	*Registered Knowledge Holder names available from DPL	490281mE 8182837mN Zone 51 [Reliable]	K01183
13923	NORON.	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Midden / Scatter, Camp, Water Source	*Registered Knowledge Holder names available from DPL	490037mE 8182961mN Zone 51 [Reliable]	K01184
13925	ILAN.	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Man-Made Structure, Midden / Scatter, Camp	*Registered Knowledge Holder names available from DPL	489837mE 8181961mN Zone 51 [Reliable]	K01186
13926	ARMANDA.	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Man-Made Structure, Midden / Scatter, Camp	*Registered Knowledge Holder names available from DPL	489687mE 8182761mN Zone 51 [Reliable]	K01187
13927	ANBARMAN.	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Man-Made Structure, Midden / Scatter, Camp	*Registered Knowledge Holder names available from DPL	489537mE 8182161mN Zone 51 [Reliable]	K01188
13928	RANGARD.	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Midden / Scatter, Camp	*Registered Knowledge Holder names available from DPL	486137mE 8174361mN Zone 51 [Reliable]	K01189
13929	LARBUNDUN.	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Midden / Scatter, Camp, Water Source	*Registered Knowledge Holder names available from DPL	485237mE 8174861mN Zone 51 [Reliable]	K01190
13930	GUNBUDARUN.	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Man-Made Structure, Midden / Scatter, Camp, Water Source	*Registered Knowledge Holder names available from DPL	490137mE 8178261mN Zone 51 [Reliable]	K01191

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ID	Name	File Restricted	Boundary Restricted	Restrictions	Status	Type	Knowledge Holders	Coordinate	Legacy ID
13931	DJUNDJUNBULGUN.	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Man-Made Structure, Midden / Scatter, Arch Deposit, Camp, Other: ?	*Registered Knowledge Holder names available from DPL	490437mE 8178161mN Zone 51 [Reliable]	K01192
13932	MIDALUN.	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Man-Made Structure, Midden / Scatter, Skeletal Material / Burial, Camp	*Registered Knowledge Holder names available from DPL	495337mE 8186161mN Zone 51 [Reliable]	K01193
13947	LONGINI LANDING ROAD	No	No	No Gender Restrictions	Registered Site	Painting	*Registered Knowledge Holder names available from DPL	243127mE 8421472mN Zone 52 [Reliable]	K01152
13948	PAGO MISSION ROAD 1	No	No	No Gender Restrictions	Registered Site	Painting	*Registered Knowledge Holder names available from DPL	245634mE 8428664mN Zone 52 [Unreliable]	K01153
13949	PAGO MISSION ROAD 2	No	No	No Gender Restrictions	Registered Site	Painting	*Registered Knowledge Holder names available from DPL	246434mE 8427364mN Zone 52 [Unreliable]	K01154
13950	PAGO MISSION ROAD 3	No	No	No Gender Restrictions	Registered Site	Painting	*Registered Knowledge Holder names available from DPL	246734mE 8426964mN Zone 52 [Unreliable]	K01155
13958	GUMBADAL.	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Engraving, Midden / Scatter, Camp	*Registered Knowledge Holder names available from DPL	492037mE 8187861mN Zone 51 [Reliable]	K01164
13959	NUMBULMARA.	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Grinding Patches / Grooves, Midden / Scatter, Camp	*Registered Knowledge Holder names available from DPL	492137mE 8187861mN Zone 51 [Reliable]	K01165
13960	DJUWINO.	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Midden / Scatter, Camp	*Registered Knowledge Holder names available from DPL	492037mE 8187661mN Zone 51 [Reliable]	K01166
13961	MILBANAN.	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Midden / Scatter, Camp	*Registered Knowledge Holder names available from DPL	492137mE 8187461mN Zone 51 [Reliable]	K01167
13962	KAYERUN.	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Midden / Scatter, Camp	*Registered Knowledge Holder names available from DPL	492637mE 8187461mN Zone 51 [Reliable]	K01168
13963	DUMBULGUN.	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Midden / Scatter, Camp	*Registered Knowledge Holder names available from DPL	492337mE 8187561mN Zone 51 [Reliable]	K01169

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ID	Name	File Restricted	Boundary Restricted	Restrictions	Status	Type	Knowledge Holders	Coordinate	Legacy ID
13964	LAYUD.	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Midden / Scatter, Camp	*Registered Knowledge Holder names available from DPL	492572mE 8187440mN Zone 51 [Unreliable]	K01170
13967	MALINGUN.	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Camp	*Registered Knowledge Holder names available from DPL	493137mE 8187161mN Zone 51 [Reliable]	K01173
13968	GULDJIMAN.	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Midden / Scatter, Camp, Water Source, Other: LOCAL GROUP	*Registered Knowledge Holder names available from DPL	493438mE 8186968mN Zone 51 [Reliable]	K01174
13969	GULAMANGUN.	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Midden / Scatter, Camp	*Registered Knowledge Holder names available from DPL	492737mE 8187161mN Zone 51 [Unreliable]	K01175
14160	CROWLEY HIGHWAY 4.	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Water Source	*Registered Knowledge Holder names available from DPL	640637mE 8154661mN Zone 51 [Unreliable]	K00931
14161	CROWLEY HIGHWAY 5.	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Grinding Patches / Grooves, Water Source	*Registered Knowledge Holder names available from DPL	641637mE 8153661mN Zone 51 [Unreliable]	K00932
14162	CROWLEY HIGHWAY 6	No	No	No Gender Restrictions	Registered Site	Grinding Patches / Grooves	*Registered Knowledge Holder names available from DPL	644637mE 8153661mN Zone 51 [Unreliable]	K00933
14165	CROWLEY HIGHWAY 9	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Grinding Patches / Grooves	*Registered Knowledge Holder names available from DPL	640637mE 8154661mN Zone 51 [Unreliable]	K00936
14166	HARRY MARTIN TRIP 01	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter	*Registered Knowledge Holder names available from DPL	647747mE 8156382mN Zone 51 [Reliable]	K00937
14211	CROWLEY HIGHWAY 2	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter	*Registered Knowledge Holder names available from DPL	638637mE 8152661mN Zone 51 [Unreliable]	K00929
14240	FISHERMENS BEND 2	No	No		Registered Site	Ceremonial, Skeletal Material / Burial, Other: Part of proposed PA 117	*Registered Knowledge Holder names available from DPL	421987mE 8014661mN Zone 51 [Unreliable]	K00850
14241	FISHERMENS BEND 3	Yes	Yes	Male Access Only	Registered Site	Ceremonial, Mythological, Repository / Cache, Other: Part of proposed PA 117	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00851

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ID	Name	File Restricted	Boundary Restricted	Restrictions	Status	Type	Knowledge Holders	Coordinate	Legacy ID
14242	FISHERMENS BEND 4	Yes	Yes	Male Access Only	Registered Site	Mythological, Other: Part of proposed PA 117	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00852
14243	FISHERMENS BEND 5	Yes	Yes	Male Access Only	Registered Site	Mythological, Other: Part of proposed PA 117	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00853
14266	WURRUNGOO.	Yes	Yes	No Gender Restrictions	Registered Site	Ceremonial, Historical, Other: SENTIMENTAL	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00823
14274	EMERIAU POINT 2	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Midden / Scatter	*Registered Knowledge Holder names available from DPL	454737mE 8146161mN Zone 51 [Unreliable]	K00832
14275	EMERIAU POINT 3	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Midden / Scatter	*Registered Knowledge Holder names available from DPL	454937mE 8145261mN Zone 51 [Unreliable]	K00833
14276	WEEDONG/ BELL POINT 1	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Midden / Scatter	*Registered Knowledge Holder names available from DPL	468736mE 8144060mN Zone 51 [Unreliable]	K00834
14277	WEEDONG/BELL POINT 2	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Midden / Scatter	*Registered Knowledge Holder names available from DPL	468137mE 8144161mN Zone 51 [Unreliable]	K00835
14278	WEEDONG/ BELL POINT 3	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Midden / Scatter	*Registered Knowledge Holder names available from DPL	467737mE 8144861mN Zone 51 [Unreliable]	K00836
14279	WAPET GRAVITY LINE.	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Water Source	*Registered Knowledge Holder names available from DPL	463937mE 8143061mN Zone 51 [Unreliable]	K00837
14280	BEAGLE BAY 1	Yes	Yes	No Gender Restrictions	Registered Site	Ceremonial, Modified Tree	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00838
14281	BEAGLE BAY 2	Yes	Yes	No Gender Restrictions	Registered Site	Ceremonial	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00839
14282	BOLG/BALK BORE	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter	*Registered Knowledge Holder names available from DPL	488936mE 8139260mN Zone 51 [Unreliable]	K00840

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ID	Name	File Restricted	Boundary Restricted	Restrictions	Status	Type	Knowledge Holders	Coordinate	Legacy ID
14283	WEEDONG LAGOON MIDDEN 1	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Midden / Scatter	*Registered Knowledge Holder names available from DPL	471036mE 8144960mN Zone 51 [Unreliable]	K00841
14284	WEEDONG LAGOON MIDDEN 2.	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Midden / Scatter, Camp, Water Source	*Registered Knowledge Holder names available from DPL	468736mE 8143960mN Zone 51 [Unreliable]	K00842
14285	TAPPERS INLET - INLAND	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Grinding Patches / Grooves, Midden / Scatter	*Registered Knowledge Holder names available from DPL	455737mE 8138661mN Zone 51 [Unreliable]	K00843
14286	TAPPERS INLET - COAST	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Grinding Patches / Grooves	*Registered Knowledge Holder names available from DPL	454437mE 8140061mN Zone 51 [Unreliable]	K00844
14287	FISHING HUTS MIDDEN 1	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Midden / Scatter	*Registered Knowledge Holder names available from DPL	454836mE 8144560mN Zone 51 [Unreliable]	K00845
14288	FISHING HUTS MIDDEN 2	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Midden / Scatter	*Registered Knowledge Holder names available from DPL	454836mE 8144860mN Zone 51 [Unreliable]	K00846
14289	EMERIAU POINT FISH TRAP	No	No	No Gender Restrictions	Registered Site	Fish Trap	*Registered Knowledge Holder names available from DPL	454244mE 8145708mN Zone 51 [Unreliable]	K00847
14291	FISHERMENS BEND 1.	Yes	Yes	Male Access Only	Registered Site	Artefacts / Scatter, Midden / Scatter, Mythological, Camp, Water Source, Other: Part of proposed PA 117	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00849
14298	YAMPI PENINSULA 1	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter	*Registered Knowledge Holder names available from DPL	614937mE 8195761mN Zone 51 [Unreliable]	K00803
14299	YAMPI PENINSULA 2.	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Camp	*Registered Knowledge Holder names available from DPL	614137mE 8195661mN Zone 51 [Unreliable]	K00804
14300	YAMPI PENINSULA 3	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Grinding Patches / Grooves, Painting	*Registered Knowledge Holder names available from DPL	614237mE 8195461mN Zone 51 [Unreliable]	K00805
14301	YAMPI PENINSULA 4.	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Camp	*Registered Knowledge Holder names available from DPL	614609mE 8195591mN Zone 51 [Unreliable]	K00806



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ID	Name	File Restricted	Boundary Restricted	Restrictions	Status	Type	Knowledge Holders	Coordinate	Legacy ID
14302	YAMPI PENINSULA 5.	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Mythological, Painting, Quarry, Arch Deposit	*Registered Knowledge Holder names available from DPL	615337mE 8194761mN Zone 51 [Unreliable]	K00807
14303	YAMPI PENINSULA 6	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter	*Registered Knowledge Holder names available from DPL	615437mE 8194861mN Zone 51 [Unreliable]	K00808
14304	YAMPI PENINSULA 7	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Painting	*Registered Knowledge Holder names available from DPL	616337mE 8193861mN Zone 51 [Reliable]	K00809
14307	HELPMAN ISLAND	Yes	Yes	Male Access Only	Registered Site	Ceremonial, Man-Made Structure	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00812
14312	CAPE VILLARET	Yes	Yes	No Gender Restrictions	Registered Site	Mythological	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00817
14313	RALLAH WELL	Yes	Yes	No Gender Restrictions	Registered Site	Mythological	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00818
14341	SHELLBOROUGH 1-3.	Yes	Yes	No Gender Restrictions	Registered Site	Artefacts / Scatter, Grinding Patches / Grooves, Man-Made Structure, Midden / Scatter, Skeletal Material / Burial, Camp, Other: ?	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00773
14415	ANNA PLAINS STATION 1	No	No	No Gender Restrictions	Registered Site	Engraving	*Registered Knowledge Holder names available from DPL	341637mE 7870661mN Zone 51 [Unreliable]	K00687
14432	CAPE JAUBERT	No	No	No Gender Restrictions	Registered Site	Fish Trap	*Registered Knowledge Holder names available from DPL	348472mE 7903559mN Zone 51 [Reliable]	K00650
14433	PORT SMITH.	Yes	Yes	No Gender Restrictions	Registered Site	Ceremonial, Camp	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00651
14434	ADMIRAL BAY	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Fish Trap, Midden / Scatter	*Registered Knowledge Holder names available from DPL	357548mE 7925925mN Zone 51 [Reliable]	K00652
14435	FOOTPRINT CREEK A+B	No	No	No Gender Restrictions	Registered Site	Midden / Scatter, Mythological, Other: FEATURE	*Registered Knowledge Holder names available from DPL	358981mE 7924607mN Zone 51 [Reliable]	K00653

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ID	Name	File Restricted	Boundary Restricted	Restrictions	Status	Type	Knowledge Holders	Coordinate	Legacy ID
14436	FRAZIER DOWNS	No	No	No Gender Restrictions	Registered Site	Man-Made Structure, Painting	*Registered Knowledge Holder names available from DPL	365637mE 7922661mN Zone 51 [Unreliable]	K00654
14438	BLACKROCK POINT 2.	No	No	No Gender Restrictions	Registered Site	Fish Trap, Midden / Scatter, Camp	*Registered Knowledge Holder names available from DPL	368925mE 7935168mN Zone 51 [Reliable]	K00656
14439	BIDIR-NGA:BA	Yes	Yes	No Gender Restrictions	Registered Site	Fish Trap, Mythological	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00657
14440	BLACKROCK POINT 1.	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Midden / Scatter, Camp	*Registered Knowledge Holder names available from DPL	369637mE 7934661mN Zone 51 [Unreliable]	K00658
14441	POST OFFICE, LAGRANGE.	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Camp	*Registered Knowledge Holder names available from DPL	370637mE 7933661mN Zone 51 [Unreliable]	K00659
14442	LAGRANGE.	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Midden / Scatter, Camp, Water Source	*Registered Knowledge Holder names available from DPL	371637mE 7936661mN Zone 51 [Unreliable]	K00660
14443	INJUDINAH SWAMP.	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Camp	*Registered Knowledge Holder names available from DPL	382637mE 7940661mN Zone 51 [Unreliable]	K00661
14444	BEACON HILL	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Midden / Scatter	*Registered Knowledge Holder names available from DPL	416092mE 8009063mN Zone 51 [Reliable]	K00662
14445	CAPE VILLARET BURIAL	No	No	No Gender Restrictions	Registered Site	Skeletal Material / Burial	*Registered Knowledge Holder names available from DPL	401657mE 7973326mN Zone 51 [Unreliable]	K00663
14454	CORNEILLE ISLAND 13	No	No	No Gender Restrictions	Registered Site	Man-Made Structure	*Registered Knowledge Holder names available from DPL	794436mE 8429461mN Zone 51 [Reliable]	K00619
14455	CORNEILLE ISLAND 14	No	No	No Gender Restrictions	Registered Site	Man-Made Structure, Other: Part of Failed PA 168	*Registered Knowledge Holder names available from DPL	794536mE 8429561mN Zone 51 [Reliable]	K00620
14483	N.W. COASTAL HIGHWAY	Yes	Yes	No Gender Restrictions	Registered Site	Mythological	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00583

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ID	Name	File Restricted	Boundary Restricted	Restrictions	Status	Type	Knowledge Holders	Coordinate	Legacy ID
14487	COCKATOO SITE	Yes	Yes	No Gender Restrictions	Registered Site	Mythological	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00587
14489	BIDIYANABA FOOTPRINT	No	No	No Gender Restrictions	Registered Site	Mythological	*Registered Knowledge Holder names available from DPL	369546mE 7943763mN Zone 51 [Reliable]	K00589
14505	CORNEILLE ISLAND 1	No	No	No Gender Restrictions	Registered Site	Man-Made Structure, Other: Part of Failed PA 168	*Registered Knowledge Holder names available from DPL	794536mE 8429961mN Zone 51 [Unreliable]	K00551
14506	CORNEILLE ISLAND 2	No	No	No Gender Restrictions	Registered Site	Man-Made Structure, Other: Part of Failed PA 168	*Registered Knowledge Holder names available from DPL	794636mE 8429961mN Zone 51 [Unreliable]	K00552
14507	CORNEILLE ISLAND 3	No	No	No Gender Restrictions	Registered Site	Man-Made Structure, Other: Part of Failed PA 168	*Registered Knowledge Holder names available from DPL	794536mE 8430061mN Zone 51 [Unreliable]	K00553
14508	CORNEILLE ISLAND 4	No	No	No Gender Restrictions	Registered Site	Man-Made Structure, Midden / Scatter, Modified Tree, Other: Part of Failed PA 168	*Registered Knowledge Holder names available from DPL	794636mE 8430161mN Zone 51 [Unreliable]	K00554
14509	CORNEILLE ISLAND 5	No	No	No Gender Restrictions	Registered Site	Man-Made Structure, Midden / Scatter, Modified Tree, Other: Part of Failed PA 168	*Registered Knowledge Holder names available from DPL	794536mE 8430361mN Zone 51 [Unreliable]	K00555
14510	CORNEILLE ISLAND 6	No	No	No Gender Restrictions	Registered Site	Engraving, Man-Made Structure, Modified Tree, Other: Part of Failed PA 168	*Registered Knowledge Holder names available from DPL	794536mE 8430561mN Zone 51 [Unreliable]	K00556
14511	CORNEILLE ISLAND 7	No	No	No Gender Restrictions	Registered Site	Man-Made Structure, Other: Part of Failed PA 168	*Registered Knowledge Holder names available from DPL	794736mE 8430661mN Zone 51 [Unreliable]	K00557
14512	CORNEILLE ISLAND 8	No	No	No Gender Restrictions	Registered Site	Man-Made Structure, Other: Part of Failed PA 168	*Registered Knowledge Holder names available from DPL	794636mE 8430661mN Zone 51 [Unreliable]	K00558
14513	CORNEILLE ISLAND 9	No	No	No Gender Restrictions	Registered Site	Man-Made Structure, Midden / Scatter, Other: Part of Failed PA 168	*Registered Knowledge Holder names available from DPL	794836mE 8429661mN Zone 51 [Unreliable]	K00559
14514	CORNEILLE ISLAND 10	No	No	No Gender Restrictions	Registered Site	Engraving	*Registered Knowledge Holder names available from DPL	794636mE 8429261mN Zone 51 [Unreliable]	K00560

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ID	Name	File Restricted	Boundary Restricted	Restrictions	Status	Type	Knowledge Holders	Coordinate	Legacy ID
14515	CORNEILLE ISLAND 11/KUMBURR	No	No	No Gender Restrictions	Registered Site	Mythological	*Registered Knowledge Holder names available from DPL	795766mE 8429261mN Zone 51 [Unreliable]	K00561
14516	CORNEILLE ISLAND 12	No	No	No Gender Restrictions	Registered Site	Engraving, Man-Made Structure	*Registered Knowledge Holder names available from DPL	794436mE 8429361mN Zone 51 [Unreliable]	K00562
14530	CLUSTER 8	Yes	Yes	No Gender Restrictions	Registered Site	Painting	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00523
14531	CLUSTER 10	Yes	Yes	No Gender Restrictions	Registered Site	Mythological, Painting	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00524
14532	CLUSTER 11	Yes	Yes	No Gender Restrictions	Registered Site	Painting	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00525
14533	CLUSTER 12	Yes	Yes	No Gender Restrictions	Registered Site	Painting	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00526
14534	CLUSTER 13	No	No	No Gender Restrictions	Registered Site	Painting	*Registered Knowledge Holder names available from DPL	780636mE 8371661mN Zone 51 [Unreliable]	K00527
14535	SANDSTONE BLUFF 2	No	No	No Gender Restrictions	Registered Site	Painting	*Registered Knowledge Holder names available from DPL	779290mE 8371427mN Zone 51 [Reliable]	K00528
14536	SANDSTONE BLUFF 1	Yes	Yes	No Gender Restrictions	Registered Site	Mythological, Painting	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00529
14537	SANDSTONE BLUFF 3.	No	No	No Gender Restrictions	Registered Site	Painting, Arch Deposit	*Registered Knowledge Holder names available from DPL	779290mE 8371427mN Zone 51 [Reliable]	K00530
14538	SANDSTONE BLUFF 4.	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Mythological, Painting, Arch Deposit	*Registered Knowledge Holder names available from DPL	779290mE 8371427mN Zone 51 [Reliable]	K00531
14539	CLUSTER 5	No	No	No Gender Restrictions	Registered Site	Painting	*Registered Knowledge Holder names available from DPL	779636mE 8368661mN Zone 51 [Unreliable]	K00532

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ID	Name	File Restricted	Boundary Restricted	Restrictions	Status	Type	Knowledge Holders	Coordinate	Legacy ID
14540	CLUSTER 1.	No	No	No Gender Restrictions	Registered Site	Painting, Arch Deposit	*Registered Knowledge Holder names available from DPL	779636mE 8367661mN Zone 51 [Unreliable]	K00533
14541	CLUSTER 2	Yes	Yes	No Gender Restrictions	Registered Site	Painting	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00534
14542	CLUSTER 3	No	No	No Gender Restrictions	Registered Site	Painting	*Registered Knowledge Holder names available from DPL	779636mE 8367661mN Zone 51 [Unreliable]	K00535
14543	CLUSTER 4	No	No	No Gender Restrictions	Registered Site	Painting	*Registered Knowledge Holder names available from DPL	779636mE 8367661mN Zone 51 [Unreliable]	K00536
14544	CLUSTER 6	Yes	Yes	No Gender Restrictions	Registered Site	Mythological, Painting	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00537
14545	KURRIRRINDI.	Yes	Yes	No Gender Restrictions	Registered Site	Grinding Patches / Grooves, Mythological, Painting, Arch Deposit	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00538
14546	TRIBUTARY WEST 3	Yes	Yes	No Gender Restrictions	Registered Site	Grinding Patches / Grooves, Mythological, Painting	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00539
14547	TRIBUTARY WEST 2	Yes	Yes	No Gender Restrictions	Registered Site	Mythological, Painting	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00540
14548	TRIBUTARY WEST 1.	No	No	No Gender Restrictions	Registered Site	Painting, Arch Deposit, Other: ?	*Registered Knowledge Holder names available from DPL	780636mE 8377661mN Zone 51 [Unreliable]	K00541
14549	TRIBUTARY WEST 5	Yes	Yes	No Gender Restrictions	Registered Site	Man-Made Structure, Painting	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00542
14550	TRIBUTARY WEST 4	No	No	No Gender Restrictions	Registered Site	Painting	*Registered Knowledge Holder names available from DPL	782636mE 8377661mN Zone 51 [Unreliable]	K00543
14552	PARRY ISLAND CROCODILE.	Yes	Yes	No Gender Restrictions	Registered Site	Mythological, Painting, Arch Deposit	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00545

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ID	Name	File Restricted	Boundary Restricted	Restrictions	Status	Type	Knowledge Holders	Coordinate	Legacy ID
14553	PARRY ISLAND	No	No	No Gender Restrictions	Registered Site	Man-Made Structure	*Registered Knowledge Holder names available from DPL	797982mE 8414620mN Zone 51 [Unreliable]	K00546
14556	NGAMILI, CONDILLAC ISLAND	Yes	Yes	No Gender Restrictions	Registered Site	Mythological	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00549
14560	TITIRRKUN/KENNEDY HILL.	Yes	Yes	Male Access Only	Registered Site	Artefacts / Scatter, Ceremonial, Grinding Patches / Grooves, Midden / Scatter, Mythological, Hunting Place, Water Source, Other: Failed PA 140. APMC Res 11/89	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00500
14561	SACRED STORES/ BROOME	Yes	Yes	No Gender Restrictions	Registered Site	Ceremonial, Repository / Cache	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00501
14567	BUTTER CREEK 1	Yes	Yes	No Gender Restrictions	Registered Site	Painting	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00507
14568	BUTTER CREEK 2	Yes	Yes	No Gender Restrictions	Registered Site	Painting	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00508
14569	MULINYAN KAILNGAWARA	Yes	Yes	No Gender Restrictions	Registered Site	Mythological, Painting	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00509
14570	WANDAWARR DJINGAL.	No	No	No Gender Restrictions	Registered Site	Man-Made Structure, Midden / Scatter, Quarry, Plant Resource	*Registered Knowledge Holder names available from DPL	249934mE 8439364mN Zone 52 [Unreliable]	K00510
14573	KALINGNU ISLAND 1.	No	No	No Gender Restrictions	Registered Site	Camp, Water Source	*Registered Knowledge Holder names available from DPL	239719mE 8426826mN Zone 52 [Unreliable]	K00513
14574	KALINGNU ISLAND 2.	No	No	No Gender Restrictions	Registered Site	Plant Resource	*Registered Knowledge Holder names available from DPL	239719mE 8426826mN Zone 52 [Unreliable]	K00514
14575	CLUSTER 7	Yes	Yes	No Gender Restrictions	Registered Site	Mythological, Painting	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00515

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ID	Name	File Restricted	Boundary Restricted	Restrictions	Status	Type	Knowledge Holders	Coordinate	Legacy ID
14577	CRYSTAL CREEK 1	Yes	Yes	No Gender Restrictions	Registered Site	Painting, Other: Part of Failed PA 157	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00517
14579	CRYSTAL CREEK 3	No	No	No Gender Restrictions	Registered Site	Painting, Other: Part of Failed PA 157	*Registered Knowledge Holder names available from DPL	801636mE 8397161mN Zone 51 [Reliable]	K00519
14580	LANGGIYU 1	No	No	No Gender Restrictions	Registered Site	Painting	*Registered Knowledge Holder names available from DPL	782636mE 8367661mN Zone 51 [Unreliable]	K00520
14581	LANGGIYU 2	No	No	No Gender Restrictions	Registered Site	Mythological, Painting	*Registered Knowledge Holder names available from DPL	782636mE 8367661mN Zone 51 [Unreliable]	K00521
14582	CLUSTER 9	No	No	No Gender Restrictions	Registered Site	Painting	*Registered Knowledge Holder names available from DPL	782636mE 8371661mN Zone 51 [Unreliable]	K00522
14608	SALE RIVER	No	No	No Gender Restrictions	Registered Site	Painting	*Registered Knowledge Holder names available from DPL	680875mE 8229737mN Zone 51 [Reliable]	K00495
14609	CABLE BEACH 3.	Yes	Yes	No Gender Restrictions	Registered Site	Artefacts / Scatter, Midden / Scatter, Mythological, Camp, Other: Part of Failed PA 143.ACMC Res 11/89	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00496
14619	KING SOUND	No	No	No Gender Restrictions	Registered Site	Modified Tree	*Registered Knowledge Holder names available from DPL	545138mE 8145161mN Zone 51 [Unreliable]	K00448
14621	WALCOTT INLET	No	No	No Gender Restrictions	Registered Site	Painting	*Registered Knowledge Holder names available from DPL	675138mE 8195161mN Zone 51 [Unreliable]	K00450
14622	FROBENIUS SHELTER	Yes	Yes	No Gender Restrictions	Registered Site	Mythological, Painting	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00451
14623	GIBSON CREEK	Yes	Yes	No Gender Restrictions	Registered Site	Mythological, Painting	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00452
14665	LOMBADINA MISSION	Yes	Yes	No Gender Restrictions	Registered Site	Artefacts / Scatter, Ceremonial	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00396

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ID	Name	File Restricted	Boundary Restricted	Restrictions	Status	Type	Knowledge Holders	Coordinate	Legacy ID
14676	STRICKLAND BAY	No	No	No Gender Restrictions	Registered Site	Painting	*Registered Knowledge Holder names available from DPL	555138mE 8185161mN Zone 51 [Unreliable]	K00407
14678	McLARTY RANGE	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Painting	*Registered Knowledge Holder names available from DPL	609998mE 8176405mN Zone 51 [Unreliable]	K00409
14681	COLLIER BAY	No	No	No Gender Restrictions	Registered Site	Painting	*Registered Knowledge Holder names available from DPL	651824mE 8197593mN Zone 51 [Reliable]	K00412
14682	EAGLE POINT, COLLIER BAY	No	No	No Gender Restrictions	Registered Site	Mythological, Painting	*Registered Knowledge Holder names available from DPL	649826mE 8211528mN Zone 51 [Reliable]	K00413
14683	SECURE BAY	No	No	No Gender Restrictions	Registered Site	Painting	*Registered Knowledge Holder names available from DPL	650637mE 8180661mN Zone 51 [Unreliable]	K00414
14684	BORGORON.	Yes	Yes	Male Access Only	Registered Site	Artefacts / Scatter, Ceremonial, Repository / Cache, Other: LOCAL GROUP SITE	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00415
14696	BEAGLE BAY 1	No	No	No Gender Restrictions	Registered Site	Fish Trap	*Registered Knowledge Holder names available from DPL	449386mE 8126301mN Zone 51 [Reliable]	K00374
14697	BEAGLE BAY 2	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter	*Registered Knowledge Holder names available from DPL	464417mE 8122415mN Zone 51 [Unreliable]	K00375
14698	TAPPERS POINT.	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Camp	*Registered Knowledge Holder names available from DPL	452936mE 8138860mN Zone 51 [Unreliable]	K00376
14699	MURPHY CREEK	No	No	No Gender Restrictions	Registered Site	Fish Trap	*Registered Knowledge Holder names available from DPL	453436mE 8132060mN Zone 51 [Unreliable]	K00377
14700	IMBALGUN, TAPPERS INLET.	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Fish Trap, Midden / Scatter, Camp	*Registered Knowledge Holder names available from DPL	459486mE 8143461mN Zone 51 [Reliable]	K00378
14701	MIDHREGUN	No	No	No Gender Restrictions	Registered Site	Fish Trap	*Registered Knowledge Holder names available from DPL	454637mE 8144661mN Zone 51 [Unreliable]	K00379



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ID	Name	File Restricted	Boundary Restricted	Restrictions	Status	Type	Knowledge Holders	Coordinate	Legacy ID
14702	BEAGLE BAY MISSION.	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Camp	*Registered Knowledge Holder names available from DPL	464636mE 8122660mN Zone 51 [Unreliable]	K00380
14703	WEEDONG	No	No	No Gender Restrictions	Registered Site	Fish Trap, Other: Fish trap may not exist - 1997	*Registered Knowledge Holder names available from DPL	468336mE 8142960mN Zone 51 [Unreliable]	K00381
14739	UNGUD, FRESHWATER BAY	No	No	No Gender Restrictions	Registered Site	Man-Made Structure, Mythological	*Registered Knowledge Holder names available from DPL	199334mE 8445764mN Zone 52 [Reliable]	K00312
14746	KING EDWARD RIVER MOUTH.	No	No	No Gender Restrictions	Registered Site	Grinding Patches / Grooves, Midden / Scatter, Painting, Camp, Plant Resource	*Registered Knowledge Holder names available from DPL	242317mE 8423222mN Zone 52 [Reliable]	K00319
14747	KALUMBURU MISSION COMPLEX	Yes	Yes	No Gender Restrictions	Registered Site	Engraving, Mythological, Painting, Skeletal Material / Burial	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00320
14748	LONGINI	No	No	No Gender Restrictions	Registered Site	Painting	*Registered Knowledge Holder names available from DPL	243048mE 8423316mN Zone 52 [Reliable]	K00321
14749	WOLIBA	No	No	No Gender Restrictions	Registered Site	Painting	*Registered Knowledge Holder names available from DPL	243634mE 8423664mN Zone 52 [Unreliable]	K00322
14756	LANGANANA ROCKSHELTER	No	No	No Gender Restrictions	Registered Site	Painting	*Registered Knowledge Holder names available from DPL	253915mE 8437294mN Zone 52 [Reliable]	K00329
14757	LANGANANA	No	No	No Gender Restrictions	Registered Site	Painting	*Registered Knowledge Holder names available from DPL	254018mE 8438019mN Zone 52 [Reliable]	K00330
14758	OLD PAGO MISSION	No	No	No Gender Restrictions	Registered Site	Painting	*Registered Knowledge Holder names available from DPL	254855mE 8437172mN Zone 52 [Reliable]	K00331
14764	LEWA BARA MENGARI.	No	No	No Gender Restrictions	Registered Site	Man-Made Structure, Midden / Scatter, Mythological, Camp	*Registered Knowledge Holder names available from DPL	184484mE 8445464mN Zone 52 [Reliable]	K00285
14768	BALGA MEJANGEI	No	No	No Gender Restrictions	Registered Site	Mythological	*Registered Knowledge Holder names available from DPL	190234mE 8439164mN Zone 52 [Reliable]	K00289

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ID	Name	File Restricted	Boundary Restricted	Restrictions	Status	Type	Knowledge Holders	Coordinate	Legacy ID
14769	PARAN-GAR 1	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Fish Trap, Mythological	*Registered Knowledge Holder names available from DPL	189834mE 8447164mN Zone 52 [Reliable]	K00290
14770	PARAN-GAR 3.	No	No	No Gender Restrictions	Registered Site	Midden / Scatter, Camp	*Registered Knowledge Holder names available from DPL	189634mE 8447514mN Zone 52 [Reliable]	K00291
14772	ADJUWARR.	Yes	Yes	No Gender Restrictions	Registered Site	Artefacts / Scatter, Man-Made Structure, Camp, Meeting Place, Plant Resource	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00293
14773	PARAN-GAR 2.	No	No	No Gender Restrictions	Registered Site	Grinding Patches / Grooves, Man-Made Structure, Skeletal Material / Burial, Camp	*Registered Knowledge Holder names available from DPL	190284mE 8446514mN Zone 52 [Reliable]	K00294
14774	ADMIRALTY GULF	Yes	Yes	No Gender Restrictions	Registered Site	Artefacts / Scatter, Mythological, Painting	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00295
14775	KULANU, SEAFLOWER BAY.	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Midden / Scatter, Camp	*Registered Knowledge Holder names available from DPL	193534mE 8437914mN Zone 52 [Reliable]	K00296
14787	BURRGU, ENCOUNTER COVE	No	No	No Gender Restrictions	Registered Site	Mythological, Painting	*Registered Knowledge Holder names available from DPL	196134mE 8434764mN Zone 52 [Reliable]	K00308
14791	WOGU WOGU ISLAND 1.	No	No	No Gender Restrictions	Registered Site	Man-Made Structure, Camp	*Registered Knowledge Holder names available from DPL	194534mE 8457364mN Zone 52 [Reliable]	K00260
14793	VANSITTART BAY 1-3	Yes	Yes	No Gender Restrictions	Registered Site	Mythological, Painting	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00262
14794	CHALANGDAL, VANSITTART BAY	Yes	Yes	No Gender Restrictions	Registered Site	Mythological, Painting	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00263
14796	ECLIPSE ISLANDS	No	No	No Gender Restrictions	Registered Site	Quarry	*Registered Knowledge Holder names available from DPL	208634mE 8461664mN Zone 52 [Unreliable]	K00265
14797	SIR GRAHAM MOORE ISLANDS	Yes	Yes	No Gender Restrictions	Registered Site	Ceremonial, Man-Made Structure, Mythological	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00266

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ID	Name	File Restricted	Boundary Restricted	Restrictions	Status	Type	Knowledge Holders	Coordinate	Legacy ID
14798	SIR GRAHAM MOORE ISLANDS	Yes	Yes	No Gender Restrictions	Registered Site	Man-Made Structure, Skeletal Material / Burial	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00267
14799	ANJO PENNINSULA	Yes	Yes	No Gender Restrictions	Registered Site	Skeletal Material / Burial	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00268
14800	GALNGAURU	Yes	Yes	No Gender Restrictions	Registered Site	Mythological, Painting, Skeletal Material / Burial	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00269
14802	KAREN, ADMIRALTY GULF	Yes	Yes	No Gender Restrictions	Registered Site	Mythological, Painting	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00271
14803	BORDA ISLAND	Yes	Yes	No Gender Restrictions	Registered Site	Mythological, Painting	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00272
14807	WUNBARA, PARRY HARBOUR	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Midden / Scatter	*Registered Knowledge Holder names available from DPL	177684mE 8442764mN Zone 52 [Reliable]	K00276
14808	UNGGALU IS., PARRY HARBOUR	No	No	No Gender Restrictions	Registered Site	Mythological	*Registered Knowledge Holder names available from DPL	178234mE 8448914mN Zone 52 [Reliable]	K00277
14814	NANGIRITJI, PARRY HARBOUR.	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Engraving, Man-Made Structure, Camp	*Registered Knowledge Holder names available from DPL	182834mE 8449964mN Zone 52 [Reliable]	K00283
14817	PARRY HARBOUR	No	No	No Gender Restrictions	Registered Site	Engraving	*Registered Knowledge Holder names available from DPL	181635mE 8451664mN Zone 52 [Unreliable]	K00233
14818	PARRY ISLAND,ADMIRALTY GULF.	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Painting, Camp	*Registered Knowledge Holder names available from DPL	798636mE 8414661mN Zone 51 [Unreliable]	K00234
14823	NGALUMAL GUDANGARI.	Yes	Yes	No Gender Restrictions	Registered Site	Ceremonial, Mythological, Camp	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00239
14830	WADAI/ RED ISLAND.	Yes	Yes	No Gender Restrictions	Registered Site	Mythological, Camp	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00246

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ID	Name	File Restricted	Boundary Restricted	Restrictions	Status	Type	Knowledge Holders	Coordinate	Legacy ID
14840	WOGU WOGU ISLAND 2	No	No	No Gender Restrictions	Registered Site	Man-Made Structure	*Registered Knowledge Holder names available from DPL	192734mE 8455164mN Zone 52 [Reliable]	K00256
14843	DJILGU, ST GEORGE BASIN	Yes	Yes	No Gender Restrictions	Registered Site	Ceremonial, Engraving, Mythological, Painting	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00204
14844	YANGALU	Yes	Yes	No Gender Restrictions	Registered Site	Man-Made Structure, Mythological, Painting	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00205
14847	PUNNINJARRI	Yes	Yes	No Gender Restrictions	Registered Site	Painting	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00208
14849	MALUNDUM	Yes	Yes	No Gender Restrictions	Registered Site	Mythological, Painting	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00210
14851	GREYS PLATEAU	No	No	No Gender Restrictions	Registered Site	Painting	*Registered Knowledge Holder names available from DPL	725138mE 8285161mN Zone 51 [Unreliable]	K00212
14856	PRINCE FREDERICK HARBOUR	Yes	Yes	No Gender Restrictions	Registered Site	Mythological, Painting	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00217
14865	AMANGURA, GLENELG RIVER	Yes	Yes	No Gender Restrictions	Registered Site	Mythological, Painting	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00227
14866	GLENELG RIVER	Yes	Yes	No Gender Restrictions	Registered Site	Mythological, Painting	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00228
14872	THE GRAVEYARD 3.	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Midden / Scatter, Camp	*Registered Knowledge Holder names available from DPL	568057mE 8197387mN Zone 51 [Reliable]	K00072
14877	TJALEJALUPA, GERALD ISLAND.	No	No	No Gender Restrictions	Registered Site	Quarry, Camp	*Registered Knowledge Holder names available from DPL	557680mE 8186908mN Zone 51 [Reliable]	K00077
14884	CONE BAY.	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Camp	*Registered Knowledge Holder names available from DPL	560240mE 8174154mN Zone 51 [Reliable]	K00084

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ID	Name	File Restricted	Boundary Restricted	Restrictions	Status	Type	Knowledge Holders	Coordinate	Legacy ID
14887	CASCADE BAY	No	No	No Gender Restrictions	Registered Site	Mythological	*Registered Knowledge Holder names available from DPL	552443mE 8170581mN Zone 51 [Unreliable]	K00087
14888	KULUMANUM, CASCADE BAY	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Painting	*Registered Knowledge Holder names available from DPL	552716mE 8170042mN Zone 51 [Unreliable]	K00088
14890	GARA, MERMAID IS.	No	No	No Gender Restrictions	Registered Site	Painting, Other: LOCAL GROUP SITE	*Registered Knowledge Holder names available from DPL	536737mE 8183031mN Zone 51 [Reliable]	K00090
14891	SWAN POINT.	Yes	Yes	No Gender Restrictions	Registered Site	Artefacts / Scatter, Man-Made Structure, Midden / Scatter, Mythological, Camp, Hunting Place	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00091
14893	LINBINGUN.	Yes	Yes	No Gender Restrictions	Registered Site	Engraving, Mythological, Named Place	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00093
14894	LAGRANGE	Yes	Yes	No Gender Restrictions	Registered Site	Repository / Cache	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00094
14928	CORONATION ISLANDS	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Man-Made Structure	*Registered Knowledge Holder names available from DPL	708546mE 8344383mN Zone 51 [Reliable]	K00130
14929	ALBERT ISLAND	No	No	No Gender Restrictions	Registered Site	Engraving	*Registered Knowledge Holder names available from DPL	707636mE 8394661mN Zone 51 [Unreliable]	K00131
14930	SOUTH MARET ISLAND	No	No	No Gender Restrictions	Registered Site	Man-Made Structure	*Registered Knowledge Holder names available from DPL	714136mE 8402311mN Zone 51 [Reliable]	K00132
14932	FEINT ISLAND	No	No	No Gender Restrictions	Registered Site	Painting	*Registered Knowledge Holder names available from DPL	730636mE 8388661mN Zone 51 [Unreliable]	K00134
14933	BIGGE ISLAND	Yes	Yes	No Gender Restrictions	Registered Site	Painting, Skeletal Material / Burial	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00135
14934	WEST MONTALIVET ISLAND	Yes	Yes	No Gender Restrictions	Registered Site	Man-Made Structure, Mythological, Painting	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00136

# Aboriginal Heritage Inquiry System

## List of Registered Aboriginal Sites

ID	Name	File Restricted	Boundary Restricted	Restrictions	Status	Type	Knowledge Holders	Coordinate	Legacy ID
14935	PRUDHOE ISLAND.	Yes	Yes	No Gender Restrictions	Registered Site	Ceremonial, Engraving, Mythological, Hunting Place	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00137
14936	EAST MONTALIVET ISLAND	No	No	No Gender Restrictions	Registered Site	Man-Made Structure	*Registered Knowledge Holder names available from DPL	748226mE 8419974mN Zone 51 [Unreliable]	K00138
14937	EAST MONTALIVET ISLAND	No	No	No Gender Restrictions	Registered Site	Man-Made Structure	*Registered Knowledge Holder names available from DPL	748243mE 8420625mN Zone 51 [Unreliable]	K00139
14938	WOLLASTON ISLAND.	Yes	Yes	No Gender Restrictions	Registered Site	Mythological, Painting, Arch Deposit	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00140
14939	KATERS ISLAND	Yes	Yes	No Gender Restrictions	Registered Site	Skeletal Material / Burial	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00141
14940	CAPE VOLTAIRE	Yes	Yes	No Gender Restrictions	Registered Site	Mythological, Painting	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00142
14948	SURVEYORS POOL	Yes	Yes	No Gender Restrictions	Registered Site	Mythological, Painting, Other: Part of Failed PA158?	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00150
14949	MITCHELL PLATEAU 1	No	No	No Gender Restrictions	Registered Site	Painting	*Registered Knowledge Holder names available from DPL	793136mE 8376161mN Zone 51 [Unreliable]	K00151
14950	SURVEYORS POOL SERIES	Yes	Yes	No Gender Restrictions	Registered Site	Painting, Other: Part of Failed PA 158	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00152
14953	MITCHELL PLATEAU 2.	No	No	No Gender Restrictions	Registered Site	Painting, Camp	*Registered Knowledge Holder names available from DPL	800636mE 8394961mN Zone 51 [Unreliable]	K00155
14954	MITCHELL PLATEAU 3	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Man-Made Structure	*Registered Knowledge Holder names available from DPL	800836mE 8384461mN Zone 51 [Unreliable]	K00156
14955	CRYSTAL CREEK.	Yes	Yes	No Gender Restrictions	Registered Site	Painting, Skeletal Material / Burial, Camp, Other: Part of Failed PA 157	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00157

## Aboriginal Heritage Inquiry System

### List of Registered Aboriginal Sites

ID	Name	File Restricted	Boundary Restricted	Restrictions	Status	Type	Knowledge Holders	Coordinate	Legacy ID
14956	MITCHELL PLATEAU/ FISH ROE	Yes	Yes	No Gender Restrictions	Registered Site	Artefacts / Scatter, Ceremonial, Man-Made Structure	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00158
14960	PORT WARRENDER 2	No	No	No Gender Restrictions	Registered Site	Modified Tree	*Registered Knowledge Holder names available from DPL	806536mE 8391561mN Zone 51 [Reliable]	K00162
14961	CRYSTAL HEAD	No	No	No Gender Restrictions	Registered Site	Painting	*Registered Knowledge Holder names available from DPL	807336mE 8398761mN Zone 51 [Unreliable]	K00163
14962	CRYSTAL CREEK	No	No	No Gender Restrictions	Registered Site	Man-Made Structure, Midden / Scatter, Other: Part of Failed PA 157	*Registered Knowledge Holder names available from DPL	807236mE 8399061mN Zone 51 [Unreliable]	K00164
14963	LANGADUNGUR (LAWLEY R. 1)	Yes	Yes	No Gender Restrictions	Registered Site	Artefacts / Scatter, Grinding Patches / Grooves, Man-Made Structure, Midden / Scatter, Mythological, Painting	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00165
14964	YARDIMALO (LAWLEY R. 2)	Yes	Yes	No Gender Restrictions	Registered Site	Artefacts / Scatter, Grinding Patches / Grooves, Man-Made Structure, Midden / Scatter, Mythological, Painting, Quarry, Other: Part of Failed PA 169	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00166
14965	LAWLEY POINT (LAWLEY R. 5).	Yes	Yes	No Gender Restrictions	Registered Site	Artefacts / Scatter, Midden / Scatter, Mythological, Painting, Arch Deposit, Other: Part of Failed PA 169	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00167
14971	BADANBIRI CLIFFS	Yes	Yes	No Gender Restrictions	Registered Site	Mythological	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00173
14973	DIDJINA	Yes	Yes	No Gender Restrictions	Registered Site	Ceremonial, Engraving, Man-Made Structure, Mythological	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00175
14975	GUBARO REEF	Yes	Yes	No Gender Restrictions	Registered Site	Ceremonial, Mythological	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00177
14976	MONTGOMERY ISLANDS	Yes	Yes	No Gender Restrictions	Registered Site	Artefacts / Scatter, Man-Made Structure, Mythological, Painting, Skeletal Material / Burial	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00178

## Aboriginal Heritage Inquiry System

### List of Registered Aboriginal Sites

ID	Name	File Restricted	Boundary Restricted	Restrictions	Status	Type	Knowledge Holders	Coordinate	Legacy ID
14977	CHAMPAGNY ISLANDS	No	No	No Gender Restrictions	Registered Site	Man-Made Structure, Painting	*Registered Knowledge Holder names available from DPL	634435mE 8307609mN Zone 51 [Unreliable]	K00179
14979	BYAM MARTIN ISLAND	No	No	No Gender Restrictions	Registered Site	Fish Trap	*Registered Knowledge Holder names available from DPL	645637mE 8300661mN Zone 51 [Unreliable]	K00181
14980	DECEPTION BAY	No	No	No Gender Restrictions	Registered Site	Painting	*Registered Knowledge Holder names available from DPL	645138mE 8265161mN Zone 51 [Unreliable]	K00182
14981	KURI BAY	Yes	Yes	No Gender Restrictions	Registered Site	Mythological, Painting	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00183
14982	AUGUSTUS ISLAND 1	No	No	No Gender Restrictions	Registered Site	Man-Made Structure	*Registered Knowledge Holder names available from DPL	664637mE 8304661mN Zone 51 [Unreliable]	K00184
14983	AUGUSTUS ISLAND 2	No	No	No Gender Restrictions	Registered Site	Man-Made Structure	*Registered Knowledge Holder names available from DPL	670637mE 8300661mN Zone 51 [Unreliable]	K00185
14985	MANGANU	Yes	Yes	No Gender Restrictions	Registered Site	Mythological, Painting	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00187
14986	PIRIALLU, ROGERS STRAIT	No	No	No Gender Restrictions	Registered Site	Engraving, Grinding Patches / Grooves, Painting	*Registered Knowledge Holder names available from DPL	664607mE 8283706mN Zone 51 [Reliable]	K00188
14987	PIRIALLU, PORT GEORGE IV	Yes	Yes	No Gender Restrictions	Registered Site	Ceremonial, Mythological, Painting, Skeletal Material / Burial	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00189
14988	MINGGOONYA, PORT GEORGE IV.	No	No	No Gender Restrictions	Registered Site	Painting, Camp, Meeting Place	*Registered Knowledge Holder names available from DPL	685470mE 8294746mN Zone 51 [Reliable]	K00190
14989	JACKSON ISLAND	No	No	No Gender Restrictions	Registered Site	Man-Made Structure, Painting	*Registered Knowledge Holder names available from DPL	676936mE 8322361mN Zone 51 [Unreliable]	K00191
14990	PALEED-PALEERA	Yes	Yes	No Gender Restrictions	Registered Site	Ceremonial, Mythological, Painting	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00192



# Aboriginal Heritage Inquiry System

## List of Registered Aboriginal Sites

ID	Name	File Restricted	Boundary Restricted	Restrictions	Status	Type	Knowledge Holders	Coordinate	Legacy ID
14991	LIRIJA	Yes	Yes	No Gender Restrictions	Registered Site	Painting	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00193
14992	KOON-GURUM	Yes	Yes	No Gender Restrictions	Registered Site	Ceremonial, Modified Tree, Painting	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00194
14993	GLENELG RIVER	No	No	No Gender Restrictions	Registered Site	Man-Made Structure, Painting	*Registered Knowledge Holder names available from DPL	715138mE 8265161mN Zone 51 [Unreliable]	K00195
14994	LUSHINGTON VALLEY	No	No	No Gender Restrictions	Registered Site	Painting	*Registered Knowledge Holder names available from DPL	695138mE 8295161mN Zone 51 [Unreliable]	K00196
14995	HANOVER BAY 1	No	No	No Gender Restrictions	Registered Site	Painting	*Registered Knowledge Holder names available from DPL	695138mE 8305161mN Zone 51 [Unreliable]	K00197
14996	HANOVER BAY 2	No	No	No Gender Restrictions	Registered Site	Painting	*Registered Knowledge Holder names available from DPL	685138mE 8305161mN Zone 51 [Unreliable]	K00198
14997	GIBSON CREEK	No	No	No Gender Restrictions	Registered Site	Painting	*Registered Knowledge Holder names available from DPL	700227mE 8235056mN Zone 51 [Reliable]	K00199
14999	JANDARA/ARNU CAVE/WURWAI	Yes	Yes	No Gender Restrictions	Registered Site	Ceremonial, Man-Made Structure, Mythological, Painting, Skeletal Material / Burial	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00201
15000	MARIGUI PROMONTORY	No	No	No Gender Restrictions	Registered Site	Painting	*Registered Knowledge Holder names available from DPL	708637mE 8303661mN Zone 51 [Unreliable]	K00202
15001	ST PATRICK ISLAND	No	No	No Gender Restrictions	Registered Site	Painting	*Registered Knowledge Holder names available from DPL	711637mE 8302661mN Zone 51 [Unreliable]	K00203
15141	LOMBADINA	No	No	No Gender Restrictions	Registered Site	Skeletal Material / Burial	*Registered Knowledge Holder names available from DPL	493537mE 8168996mN Zone 51 [Reliable]	K02917
16709	Hidden Island Burial Site	No	No	No Gender Restrictions	Registered Site	Skeletal Material / Burial	*Registered Knowledge Holder names available from DPL	548260mE 8206770mN Zone 51 [Reliable]	

## Aboriginal Heritage Inquiry System

### List of Registered Aboriginal Sites

ID	Name	File Restricted	Boundary Restricted	Restrictions	Status	Type	Knowledge Holders	Coordinate	Legacy ID
17043	Limbingoon	Yes	Yes	Male Access Only	Registered Site	Engraving, Named Place	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	
17132	Yardugarra Site	No	No	No Gender Restrictions	Registered Site	Mythological, Camp, Water Source	*Registered Knowledge Holder names available from DPL	403498mE 7972442mN Zone 51 [Reliable]	
17567	CAPE VILLARET AREA 02 / DARRLARNARNGABA	No	No	No Gender Restrictions	Registered Site	Grinding Patches / Grooves, Midden / Scatter, Camp, Water Source	*Registered Knowledge Holder names available from DPL	412611mE 7977034mN Zone 51 [Reliable]	
17568	CAPE VILLARET AREA 03 / HOMESTEAD SITE	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Midden / Scatter, BP Dating: 3100+/-60, Other: Baler shell	*Registered Knowledge Holder names available from DPL	409437mE 7975711mN Zone 51 [Reliable]	
17569	CAPE VILLARET AREA 04	No	No	No Gender Restrictions	Registered Site	Midden / Scatter, Camp, Other: Baler shell	*Registered Knowledge Holder names available from DPL	401637mE 7973311mN Zone 51 [Reliable]	
17570	CAPE VILLARET AREA 05	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Midden / Scatter, Rockshelter, BP Dating: 1390+/-70, Other: Baler shell	*Registered Knowledge Holder names available from DPL	401337mE 7973411mN Zone 51 [Reliable]	
17571	CAPE VILLARET AREA 06	No	No	No Gender Restrictions	Registered Site	Midden / Scatter, Rockshelter, Other: Archaeological Deposit?	*Registered Knowledge Holder names available from DPL	401187mE 7972961mN Zone 51 [Reliable]	
17572	CAPE VILLARET AREA 07 / BARNES BEACH MIDDEN	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Midden / Scatter, Other: Baler shell	*Registered Knowledge Holder names available from DPL	398437mE 7969011mN Zone 51 [Reliable]	
17573	CAPE VILLARET AREA 08	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Midden / Scatter, Arch Deposit, BP Dating: 1800+/-70, Ochre	*Registered Knowledge Holder names available from DPL	391987mE 7963761mN Zone 51 [Reliable]	
17574	CAPE VILLARET AREA 09	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Midden / Scatter	*Registered Knowledge Holder names available from DPL	389337mE 7961161mN Zone 51 [Reliable]	
17575	CAPE VILLARET AREA 10	No	No	No Gender Restrictions	Registered Site	Midden / Scatter	*Registered Knowledge Holder names available from DPL	388087mE 7960511mN Zone 51 [Reliable]	
17576	CAPE VILLARET AREA 11 / GUMALIINGA	No	No	No Gender Restrictions	Registered Site	Midden / Scatter	*Registered Knowledge Holder names available from DPL	386937mE 7959761mN Zone 51 [Reliable]	



# Aboriginal Heritage Inquiry System

## List of Registered Aboriginal Sites

ID	Name	File Restricted	Boundary Restricted	Restrictions	Status	Type	Knowledge Holders	Coordinate	Legacy ID
17577	CAPE VILLARET AREA 12	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Midden / Scatter, BP Dating: 1700+/-60, Other: Baler shell	*Registered Knowledge Holder names available from DPL	379037mE 7957761mN Zone 51 [Reliable]	
17578	CAPE VILLARET AREA 13	No	No	No Gender Restrictions	Registered Site	Midden / Scatter	*Registered Knowledge Holder names available from DPL	378787mE 7958211mN Zone 51 [Reliable]	
17579	CAPE VILLARET AREA 14	No	No	No Gender Restrictions	Registered Site	Midden / Scatter, BP Dating: 3060+/-50, Camp, Other: Baler shell	*Registered Knowledge Holder names available from DPL	378844mE 7957964mN Zone 51 [Reliable]	
17580	CAPE VILLARET AREA 15	No	No	No Gender Restrictions	Registered Site	Midden / Scatter, Camp, Other: Baler shell	*Registered Knowledge Holder names available from DPL	376937mE 7959911mN Zone 51 [Reliable]	
17826	Boomerang Bay Site 1	No	No	No Gender Restrictions	Registered Site	Man-Made Structure	*Registered Knowledge Holder names available from DPL	730676mE 8394226mN Zone 51 [Reliable]	
17851	BALDWIN CREEK	No	No	No Gender Restrictions	Registered Site	Fish Trap	*Registered Knowledge Holder names available from DPL	434308mE 8119459mN Zone 51 [Unreliable]	
17852	MANGROVE POINT SOUTH / GOOROOLOGOON	No	No	No Gender Restrictions	Registered Site	Fish Trap	*Registered Knowledge Holder names available from DPL	454036mE 8128410mN Zone 51 [Unreliable]	
17853	JOOMONYOON / EASTON POINT	No	No	No Gender Restrictions	Registered Site	Fish Trap	*Registered Knowledge Holder names available from DPL	503567mE 8187020mN Zone 51 [Unreliable]	
17855	ARDNOGOON / SHENTON BLUFF	No	No	No Gender Restrictions	Registered Site	Fish Trap	*Registered Knowledge Holder names available from DPL	504891mE 8179182mN Zone 51 [Unreliable]	
17857	MANGINGOOR / ELEPHANT POINT	No	No	No Gender Restrictions	Registered Site	Fish Trap	*Registered Knowledge Holder names available from DPL	498991mE 8169172mN Zone 51 [Reliable]	
17859	NILIL / RUMBLE BAY	Yes	Yes	No Gender Restrictions	Registered Site	Fish Trap	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	
17918	Yardoogarra Reburial	No	No	No Gender Restrictions	Registered Site	Skeletal Material / Burial	*Registered Knowledge Holder names available from DPL	403048mE 7973160mN Zone 51 [Reliable]	

## Aboriginal Heritage Inquiry System

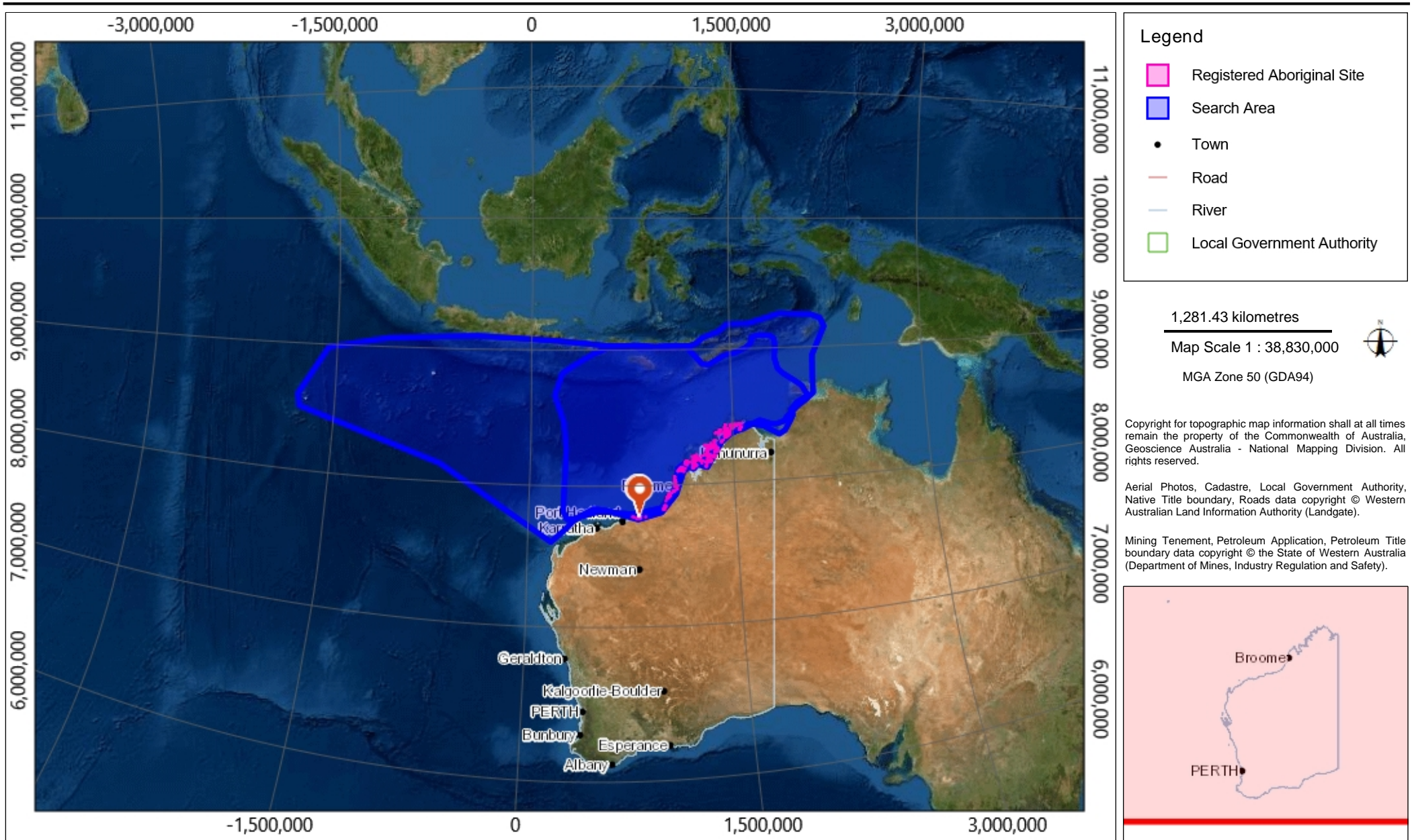
### List of Registered Aboriginal Sites

ID	Name	File Restricted	Boundary Restricted	Restrictions	Status	Type	Knowledge Holders	Coordinate	Legacy ID
18999	Bobby Creek	No	No	No Gender Restrictions	Registered Site	Mythological	*Registered Knowledge Holder names available from DPL	469871mE 8120845mN Zone 51 [Reliable]	
19799	Mungullagun Blackberry Tree Midden	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Midden / Scatter	*Registered Knowledge Holder names available from DPL	430613mE 8012242mN Zone 51 [Reliable]	
19999	Broome Bird Observatory Solar Panel Site	No	No	No Gender Restrictions	Registered Site	Artefacts / Scatter, Midden / Scatter	*Registered Knowledge Holder names available from DPL	430567mE 8012430mN Zone 51 [Reliable]	
20288	Sunday Island Mission Cemeteries	No	No	No Gender Restrictions	Registered Site	Historical, Skeletal Material / Burial	*Registered Knowledge Holder names available from DPL	519737mE 8185661mN Zone 51 [Unreliable]	
21408	Broome Crocodile Farm	Yes	Yes	Male Access Only	Registered Site	Ceremonial, Mythological, Camp	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	
24575	Irvine Island Ledge Burial	Yes	Yes	Male Access Only	Registered Site	Rockshelter, Skeletal Material / Burial	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	
24759	Striated Stone (Stone in the valley)	No	No	No Gender Restrictions	Registered Site	Engraving	*Registered Knowledge Holder names available from DPL	558645mE 8221843mN Zone 51 [Reliable]	
32447	Gardalargun South	No	No	No Gender Restrictions	Registered Site		*Registered Knowledge Holder names available from DPL	409737mE 8060936mN Zone 51 [Reliable]	
36532	Djarindjin Law Ground	Yes	Yes	Male Access Only	Registered Site	Ceremonial, Mythological	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	
38304	Lunganana Trepanging Site	No	Yes		Registered Site	Artefacts / Scatter, Man-Made Structure, Midden / Scatter	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	
38305	Klembei	No	Yes		Registered Site	Artefacts / Scatter, Man-Made Structure, Midden / Scatter	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	

# Aboriginal Heritage Inquiry System

For further important information on using this information please see the Department of Planning, Lands and Heritage's Disclaimer statement at <https://www.dph.wa.gov.au/about-this-website>

## Map of Registered Aboriginal Sites



## List of Other Heritage Places

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### Search Criteria

383 Other Heritage Places in Shapefile - ENVIRO\_WA343P&WA285P\_EMBA\_20220314\_Polygon, ENVIRO\_WA343P&WA285P\_PZArea\_20220314\_Polygon

### 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.

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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.

Terminology (NB that some terminology has varied over the life of the legislation)

Place ID/Site ID: This a unique ID assigned by the Department of Planning, Lands and Heritage to the place.

Status:

- Registered Site: The place has been assessed as meeting Section 5 of the Aboriginal Heritage Act 1972.
- Other Heritage Place which includes:
  - Stored Data / Not a Site: The place has been assessed as not meeting Section 5 of the Aboriginal Heritage Act 1972.
  - Lodged: Information has been received in relation to the place, but an assessment has not been completed at this stage to determine if it meets Section 5 of the Aboriginal Heritage Act 1972.

Access and Restrictions:

- File Restricted = No: Availability of information that the Department of Planning, Lands and Heritage holds in relation to the place is not restricted in any way.
- File Restricted = Yes: Some of the information that the Department of Planning, Lands and Heritage holds in relation to the place is restricted if it is considered culturally sensitive. This information will only be made available if the Department of Planning, Lands and Heritage receives written approval from the informants who provided the information. To request access please contact [AboriginalHeritage@dplh.wa.gov.au](mailto:AboriginalHeritage@dplh.wa.gov.au).
- Boundary Restricted = No: Place location is shown as accurately as the information lodged with the Registrar allows.
- Boundary Restricted = Yes: To preserve confidentiality the exact location and extent of the place is not displayed on the map. However, the shaded region (generally with an area of at least 4km<sup>2</sup>) provides a general indication of where the place is located. If you are a landowner and wish to find out more about the exact location of the place, please contact the Department of Planning, Lands and Heritage.
- Restrictions:
  - No Restrictions: Anyone can view the information.
  - Male Access Only: Only males can view restricted information.
  - Female Access Only: Only females can view restricted information.

Legacy ID: This is the former unique number that the former Department of Aboriginal Sites assigned to the place. This has been replaced by the Place ID / Site ID.

## List of Other Heritage Places

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## List of Other Heritage Places

ID	Name	File Restricted	Boundary Restricted	Restrictions	Status	Type	Knowledge Holders	Coordinate	Legacy ID
431	JUGURRUGUN	No	No	No Gender Restrictions	Lodged	Mythological	*Registered Knowledge Holder names available from DPL	419267mE 8013721mN Zone 51 [Reliable]	K02904
432	RED POINT	No	No	No Gender Restrictions	Lodged	Mythological	*Registered Knowledge Holder names available from DPL	413665mE 8012612mN Zone 51 [Reliable]	K02905
433	GANTHEAUME PT. 3	No	No	No Gender Restrictions	Lodged	Mythological	*Registered Knowledge Holder names available from DPL	412921mE 8012335mN Zone 51 [Reliable]	K02906
434	GANTHEAUME PT.4.	No	No	No Gender Restrictions	Lodged	Mythological, Birth Place	*Registered Knowledge Holder names available from DPL	418391mE 8014121mN Zone 51 [Unreliable]	K02907
1015	FRAZIER DOWNS STATION.	No	No	No Gender Restrictions	Lodged	Historical	*Registered Knowledge Holder names available from DPL	364137mE 7920961mN Zone 51 [Reliable]	K02889
1016	PURUPURUNGANYJALY.	No	No	No Gender Restrictions	Stored Data / Not a Site	Historical, Water Source	*Registered Knowledge Holder names available from DPL	356637mE 7914661mN Zone 51 [Reliable]	K02890
12134	YAMPI PENINSULA.	No	No	No Gender Restrictions	Lodged	Camp	*Registered Knowledge Holder names available from DPL	561585mE 8204216mN Zone 51 [Reliable]	K00067
12136	THE GRAVEYARD 1.	No	No	No Gender Restrictions	Lodged	Camp	*Registered Knowledge Holder names available from DPL	566486mE 8196149mN Zone 51 [Reliable]	K00069
12160	IRON ISLANDS, TALBOT BAY.	No	No	No Gender Restrictions	Lodged	Camp	*Registered Knowledge Holder names available from DPL	585787mE 8211961mN Zone 51 [Unreliable]	K00040
12163	NARES POINT.	No	No	No Gender Restrictions	Lodged	Camp	*Registered Knowledge Holder names available from DPL	575437mE 8216361mN Zone 51 [Unreliable]	K00043
12164	KOOLAN ISLAND.	No	No	No Gender Restrictions	Lodged	Midden / Scatter, Rockshelter, Arch Deposit, Camp	*Registered Knowledge Holder names available from DPL	573467mE 8218396mN Zone 51 [Reliable]	K00044
12166	MYRIDY BAY.	No	No	No Gender Restrictions	Lodged	Camp	*Registered Knowledge Holder names available from DPL	568410mE 8211559mN Zone 51 [Reliable]	K00046



## List of Other Heritage Places

ID	Name	File Restricted	Boundary Restricted	Restrictions	Status	Type	Knowledge Holders	Coordinate	Legacy ID
12168	MYRIDI BAY, YAMPI SOUND.	No	No	No Gender Restrictions	Lodged	Camp	*Registered Knowledge Holder names available from DPL	566248mE 8212466mN Zone 51 [Reliable]	K00048
12169	MYRIDI BAY.	No	No	No Gender Restrictions	Lodged	Camp	*Registered Knowledge Holder names available from DPL	568637mE 8211661mN Zone 51 [Unreliable]	K00049
12170	MYRIDI BAY.	No	No	No Gender Restrictions	Lodged	Camp	*Registered Knowledge Holder names available from DPL	565637mE 8212661mN Zone 51 [Unreliable]	K00050
12171	MYRIDI BAY.	No	No	No Gender Restrictions	Lodged	Camp	*Registered Knowledge Holder names available from DPL	565637mE 8212661mN Zone 51 [Unreliable]	K00051
12173	KARALU, MARGARET ISLAND.	No	No	No Gender Restrictions	Lodged	Camp	*Registered Knowledge Holder names available from DPL	563550mE 8212861mN Zone 51 [Reliable]	K00053
12174	MARGARET ISLAND.	No	No	No Gender Restrictions	Lodged	Camp	*Registered Knowledge Holder names available from DPL	562637mE 8213661mN Zone 51 [Unreliable]	K00054
12175	WOODHOUSE POINT.	No	No	No Gender Restrictions	Lodged	Camp	*Registered Knowledge Holder names available from DPL	562755mE 8214536mN Zone 51 [Reliable]	K00055
12177	IRVINE ISLAND.	No	No	No Gender Restrictions	Lodged	Camp	*Registered Knowledge Holder names available from DPL	557164mE 8224222mN Zone 51 [Unreliable]	K00057
12178	BATHURST ISLAND.	No	No	No Gender Restrictions	Lodged	Camp	*Registered Knowledge Holder names available from DPL	557312mE 8225449mN Zone 51 [Unreliable]	K00058
12180	IRVINE ISLAND.	No	No	No Gender Restrictions	Stored Data / Not a Site	Artefacts / Scatter, Camp	*Registered Knowledge Holder names available from DPL	556301mE 8223998mN Zone 51 [Unreliable]	K00060
12182	GOOSE CHANNEL.	No	No	No Gender Restrictions	Lodged	Camp	*Registered Knowledge Holder names available from DPL	560872mE 8209041mN Zone 51 [Reliable]	K00062
12183	COPPERMINE CREEK.	No	No	No Gender Restrictions	Lodged	Midden / Scatter, Camp	*Registered Knowledge Holder names available from DPL	564677mE 8207195mN Zone 51 [Reliable]	K00063



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ID	Name	File Restricted	Boundary Restricted	Restrictions	Status	Type	Knowledge Holders	Coordinate	Legacy ID
12185	MUNDURRAL BAY.	No	No	No Gender Restrictions	Lodged	Camp	*Registered Knowledge Holder names available from DPL	564732mE 8203805mN Zone 51 [Reliable]	K00065
12194	NEEDLE ROCK	Yes	Yes	No Gender Restrictions	Lodged	Mythological	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00022
12196	LANGAWARRU	No	No	No Gender Restrictions	Lodged	Mythological	*Registered Knowledge Holder names available from DPL	647637mE 8267661mN Zone 51 [Unreliable]	K00024
12202	RAFT POINT, FOAM PASSAGE.	No	No	No Gender Restrictions	Lodged	Artefacts / Scatter, Man-Made Structure, Camp	*Registered Knowledge Holder names available from DPL	654584mE 8222608mN Zone 51 [Reliable]	K00030
12211	TALBOT BAY.	No	No	No Gender Restrictions	Lodged	Camp	*Registered Knowledge Holder names available from DPL	592637mE 8201661mN Zone 51 [Unreliable]	K00039
12214	CRYSTAL CREEK	No	No	No Gender Restrictions	Lodged	Artefacts / Scatter, Other: Part of failed PA 157	*Registered Knowledge Holder names available from DPL	799336mE 8389961mN Zone 51 [Reliable]	K03135
12218	DJARIYU.	No	No	No Gender Restrictions	Stored Data / Not a Site	Named Place	*Registered Knowledge Holder names available from DPL	801636mE 8399661mN Zone 51 [Unreliable]	K03139
12265	WUNARO.	Yes	Yes	No Gender Restrictions	Lodged	Named Place	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K03132
12280	TWO CISTS	No	No	No Gender Restrictions	Lodged	Man-Made Structure	*Registered Knowledge Holder names available from DPL	797636mE 8372661mN Zone 51 [Unreliable]	K03093
12323	SURVEYORS POOL.	No	No	No Gender Restrictions	Stored Data / Not a Site	Artefacts / Scatter, Camp, Other: Part of Failed PA 158?	*Registered Knowledge Holder names available from DPL	793336mE 8375761mN Zone 51 [Unreliable]	K03031
12345	BUNOWANDANGA.	No	No	No Gender Restrictions	Lodged	Artefacts / Scatter, Midden / Scatter, Mythological, Camp, Hunting Place, Water Source	*Registered Knowledge Holder names available from DPL	806736mE 8387611mN Zone 51 [Unreliable]	K03001
12351	BUNGARAWUNU/BANGA UWUKU.	No	No	No Gender Restrictions	Lodged	Artefacts / Scatter, Man-Made Structure, Midden / Scatter, Mythological, Arch Deposit, Camp, Other: ?	*Registered Knowledge Holder names available from DPL	799536mE 8394561mN Zone 51 [Unreliable]	K03007



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ID	Name	File Restricted	Boundary Restricted	Restrictions	Status	Type	Knowledge Holders	Coordinate	Legacy ID
12355	CRYSTAL CREEK PAINTINGS	Yes	Yes	No Gender Restrictions	Lodged	Artefacts / Scatter, Midden / Scatter, Mythological, Painting, Quarry, Other: Part of Failed PA 157	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K03011
12356	CRYSTAL CREEK COMPLEX	Yes	Yes	No Gender Restrictions	Lodged	Artefacts / Scatter, Man-Made Structure, Midden / Scatter, Painting, Other: Part of Failed PA 157	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K03012
12357	SEVEN BOABS.	Yes	Yes	No Gender Restrictions	Lodged	Artefacts / Scatter, Man-Made Structure, Midden / Scatter, Painting, Camp	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K03013
12359	CROCODILE POOL	No	No	No Gender Restrictions	Lodged	Artefacts / Scatter, Other: Part of Failed PA 167	*Registered Knowledge Holder names available from DPL	803736mE 8384861mN Zone 51 [Unreliable]	K03015
12360	WALSH POINT MIDDEN 1	No	No	No Gender Restrictions	Lodged	Artefacts / Scatter, Midden / Scatter	*Registered Knowledge Holder names available from DPL	803236mE 8386261mN Zone 51 [Unreliable]	K03016
12361	WALSH POINT CREEK	No	No	No Gender Restrictions	Lodged	Artefacts / Scatter, Man-Made Structure	*Registered Knowledge Holder names available from DPL	802586mE 8386361mN Zone 51 [Unreliable]	K03017
12362	WALSH POINT MIDDEN 2	No	No	No Gender Restrictions	Lodged	Artefacts / Scatter, Midden / Scatter	*Registered Knowledge Holder names available from DPL	802936mE 8386861mN Zone 51 [Unreliable]	K03018
12363	KULALA.	No	No	No Gender Restrictions	Lodged	Artefacts / Scatter, Midden / Scatter, Modified Tree, Camp, Plant Resource, Other: Part of Failed PA 167	*Registered Knowledge Holder names available from DPL	803936mE 8387061mN Zone 51 [Unreliable]	K03019
12364	HILLTOP MIDDEN	No	No	No Gender Restrictions	Lodged	Artefacts / Scatter, Midden / Scatter, Other: Part of Failed PA 167	*Registered Knowledge Holder names available from DPL	803836mE 8386661mN Zone 51 [Unreliable]	K03020
12365	WALSH POINT ROAD.	No	No	No Gender Restrictions	Lodged	Artefacts / Scatter, Camp	*Registered Knowledge Holder names available from DPL	801886mE 8387961mN Zone 51 [Unreliable]	K03021
12366	THREE CIRCLES	No	No	No Gender Restrictions	Lodged	Artefacts / Scatter, Man-Made Structure	*Registered Knowledge Holder names available from DPL	800836mE 8384461mN Zone 51 [Unreliable]	K03022

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ID	Name	File Restricted	Boundary Restricted	Restrictions	Status	Type	Knowledge Holders	Coordinate	Legacy ID
12367	WALSH POINT ROAD	No	No	No Gender Restrictions	Lodged	Artefacts / Scatter, Man-Made Structure	*Registered Knowledge Holder names available from DPL	801236mE 8385061mN Zone 51 [Unreliable]	K03023
12368	GREEN STONE SITE	No	No	No Gender Restrictions	Lodged	Artefacts / Scatter	*Registered Knowledge Holder names available from DPL	800536mE 8385761mN Zone 51 [Unreliable]	K03024
12369	WALSH POINT ROAD	No	No	No Gender Restrictions	Lodged	Artefacts / Scatter	*Registered Knowledge Holder names available from DPL	801336mE 8383161mN Zone 51 [Unreliable]	K03025
12370	TERRACE QUARRY	No	No	No Gender Restrictions	Lodged	Artefacts / Scatter, Quarry	*Registered Knowledge Holder names available from DPL	801236mE 8382261mN Zone 51 [Reliable]	K03026
12395	NULUNGU.	Yes	Yes	No Gender Restrictions	Lodged	Mythological, Water Source	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K02858
12396	PIRIRIN.	Yes	Yes	No Gender Restrictions	Lodged	Mythological, Camp, Other: Part of Failed PA 167	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K03000
12416	GANTHEAUME PT: DOG DREAMING	Yes	Yes	No Gender Restrictions	Lodged	Mythological	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K02826
12417	NULUNGU	Yes	Yes	No Gender Restrictions	Lodged	Mythological, Water Source	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K02827
12424	KULMUGARIGUN CLAYPAN.	No	No	No Gender Restrictions	Lodged	Mythological, Water Source	*Registered Knowledge Holder names available from DPL	412737mE 8078461mN Zone 51 [Reliable]	K02780
12425	PIDINGKANGKUN.	No	No	No Gender Restrictions	Lodged	Water Source	*Registered Knowledge Holder names available from DPL	413581mE 8082763mN Zone 51 [Reliable]	K02781
12426	MURTJUL CREEK	No	No	No Gender Restrictions	Lodged	Mythological	*Registered Knowledge Holder names available from DPL	411908mE 8057489mN Zone 51 [Reliable]	K02782
12427	PIDIRAKUNDJUNU CREEK.	No	No	No Gender Restrictions	Lodged	Camp	*Registered Knowledge Holder names available from DPL	410037mE 8068361mN Zone 51 [Unreliable]	K02783



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ID	Name	File Restricted	Boundary Restricted	Restrictions	Status	Type	Knowledge Holders	Coordinate	Legacy ID
12428	MUMMARARRA ROCKS	Yes	Yes	No Gender Restrictions	Lodged	Ceremonial, Mythological	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K02784
12436	BIDJADANGA SKELETAL FIND	Yes	Yes	No Gender Restrictions	Lodged	Fish Trap, Skeletal Material / Burial	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K02792
12463	GURURU CREEK.	No	No	No Gender Restrictions	Lodged	Mythological, Camp, Water Source	*Registered Knowledge Holder names available from DPL	373637mE 7936661mN Zone 51 [Unreliable]	K02767
12464	JUNGOO BURIAL GROUND	No	No	No Gender Restrictions	Lodged	Skeletal Material / Burial	*Registered Knowledge Holder names available from DPL	372637mE 7934661mN Zone 51 [Unreliable]	K02768
12465	BUNDABUNDA.	No	No	No Gender Restrictions	Lodged	Water Source	*Registered Knowledge Holder names available from DPL	367637mE 7945661mN Zone 51 [Unreliable]	K02769
12466	JUDIMULANBA.	No	No	No Gender Restrictions	Lodged	Camp, Water Source	*Registered Knowledge Holder names available from DPL	367293mE 7945164mN Zone 51 [Reliable]	K02770
12467	FALSE CAPE BOSSUT MIDDEN.	No	No	No Gender Restrictions	Lodged	Midden / Scatter, Camp, Water Source	*Registered Knowledge Holder names available from DPL	371637mE 7949661mN Zone 51 [Unreliable]	K02771
12657	GALE ISLAND SOUTH WEST	No	No	No Gender Restrictions	Lodged	Man-Made Structure	*Registered Knowledge Holder names available from DPL	706637mE 8347661mN Zone 51 [Unreliable]	K02546
12659	BERNOUILLI ISLAND NORTH	No	No	No Gender Restrictions	Lodged	Man-Made Structure	*Registered Knowledge Holder names available from DPL	692504mE 8340319mN Zone 51 [Unreliable]	K02548
12660	BERNOUILLI ISLAND NORTHEAST	No	No	No Gender Restrictions	Lodged	Man-Made Structure	*Registered Knowledge Holder names available from DPL	693436mE 8339811mN Zone 51 [Unreliable]	K02549
12662	DESFONTAINES ISLAND	No	No	No Gender Restrictions	Lodged	Man-Made Structure	*Registered Knowledge Holder names available from DPL	699288mE 8338814mN Zone 51 [Unreliable]	K02551
12665	CORONATION ISLAND	No	No	No Gender Restrictions	Lodged	Man-Made Structure	*Registered Knowledge Holder names available from DPL	710136mE 8340161mN Zone 51 [Unreliable]	K02554

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ID	Name	File Restricted	Boundary Restricted	Restrictions	Status	Type	Knowledge Holders	Coordinate	Legacy ID
12666	CORONATION ISLAND SOUTH	No	No	No Gender Restrictions	Lodged	Man-Made Structure	*Registered Knowledge Holder names available from DPL	712136mE 8335661mN Zone 51 [Unreliable]	K02555
12667	MACLEAY ISLANDS 3	No	No	No Gender Restrictions	Lodged	Man-Made Structure	*Registered Knowledge Holder names available from DPL	575138mE 8235161mN Zone 51 [Unreliable]	K02556
12668	KING ISLAND	No	No	No Gender Restrictions	Lodged	Man-Made Structure	*Registered Knowledge Holder names available from DPL	568137mE 8245111mN Zone 51 [Unreliable]	K02557
12671	WEDGE HILL	No	No	No Gender Restrictions	Lodged	Man-Made Structure	*Registered Knowledge Holder names available from DPL	670637mE 8258661mN Zone 51 [Unreliable]	K02560
12673	DESAIX ISLANDS NORTH	No	No	No Gender Restrictions	Lodged	Man-Made Structure	*Registered Knowledge Holder names available from DPL	704636mE 8350661mN Zone 51 [Reliable]	K02562
12684	INBALLAL KARNBOR.	No	No	No Gender Restrictions	Lodged	Ceremonial, Mythological, Camp, Hunting Place, Water Source, Other: Part of Failed PA 139. ACMC Res 11/89	*Registered Knowledge Holder names available from DPL	409937mE 8062861mN Zone 51 [Reliable]	K02520
12698	KUMBILLEBILLEKAN.	Yes	Yes	No Gender Restrictions	Lodged	Skeletal Material / Burial, Camp	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K02534
12702	BUFFON ISLAND	No	No	No Gender Restrictions	Lodged	Man-Made Structure	*Registered Knowledge Holder names available from DPL	686886mE 8347661mN Zone 51 [Unreliable]	K02538
12703	DESFONTAINES ISLAND NORTH	No	No	No Gender Restrictions	Lodged	Man-Made Structure	*Registered Knowledge Holder names available from DPL	698762mE 8341257mN Zone 51 [Reliable]	K02539
12704	FONTANES ISLAND	No	No	No Gender Restrictions	Lodged	Man-Made Structure	*Registered Knowledge Holder names available from DPL	706744mE 8352768mN Zone 51 [Unreliable]	K02540
12706	BIGGE ISLAND	No	No	No Gender Restrictions	Lodged	Man-Made Structure	*Registered Knowledge Holder names available from DPL	735137mE 8395161mN Zone 51 [Unreliable]	K02542
12707	EAST MONTALIVET ISLAND	No	No	No Gender Restrictions	Lodged	Man-Made Structure	*Registered Knowledge Holder names available from DPL	747286mE 8419411mN Zone 51 [Unreliable]	K02543

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ID	Name	File Restricted	Boundary Restricted	Restrictions	Status	Type	Knowledge Holders	Coordinate	Legacy ID
12708	KERAUDREN ISLAND	No	No	No Gender Restrictions	Lodged	Man-Made Structure	*Registered Knowledge Holder names available from DPL	679136mE 8347161mN Zone 51 [Unreliable]	K02544
12709	MALBY ISLAND	No	No	No Gender Restrictions	Lodged	Man-Made Structure	*Registered Knowledge Holder names available from DPL	702336mE 8346661mN Zone 51 [Unreliable]	K02545
12718	CASSINI ISLAND.	No	No	No Gender Restrictions	Stored Data / Not a Site	Camp, Hunting Place, Named Place, Plant Resource	*Registered Knowledge Holder names available from DPL	784501mE 8457031mN Zone 51 [Reliable]	K02501
12719	DULI COVE CAVES.	No	No	No Gender Restrictions	Lodged	Artefacts / Scatter, Arch Deposit, Other: ?	*Registered Knowledge Holder names available from DPL	784636mE 8456661mN Zone 51 [Unreliable]	K02502
12721	DULI BAY.	No	No	No Gender Restrictions	Stored Data / Not a Site	Named Place	*Registered Knowledge Holder names available from DPL	785636mE 8456661mN Zone 51 [Unreliable]	K02504
12723	KARENA BAY.	No	No	No Gender Restrictions	Stored Data / Not a Site	Named Place	*Registered Knowledge Holder names available from DPL	785636mE 8455661mN Zone 51 [Unreliable]	K02506
12724	BELELE.	No	No	No Gender Restrictions	Stored Data / Not a Site	Named Place	*Registered Knowledge Holder names available from DPL	785636mE 8458661mN Zone 51 [Unreliable]	K02507
12790	BATHURST ISLAND ARRANGEMENT	No	No	No Gender Restrictions	Lodged	Man-Made Structure	*Registered Knowledge Holder names available from DPL	555937mE 8228661mN Zone 51 [Unreliable]	K02414
12792	GEORGE WATER RINGS	No	No	No Gender Restrictions	Lodged	Fish Trap, Man-Made Structure	*Registered Knowledge Holder names available from DPL	664137mE 8236161mN Zone 51 [Reliable]	K02416
12832	MILIBUNYARI.	No	No	No Gender Restrictions	Lodged	Camp	*Registered Knowledge Holder names available from DPL	416672mE 8028331mN Zone 51 [Reliable]	K02402
12833	JARANGKARA.	No	No	No Gender Restrictions	Stored Data / Not a Site	Named Place	*Registered Knowledge Holder names available from DPL	417214mE 8028029mN Zone 51 [Reliable]	K02403
12834	YALYURR	Yes	Yes	No Gender Restrictions	Lodged	Ceremonial, Midden / Scatter	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K02404

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ID	Name	File Restricted	Boundary Restricted	Restrictions	Status	Type	Knowledge Holders	Coordinate	Legacy ID
12836	WANGKUNAN.	No	No	No Gender Restrictions	Lodged	Ceremonial, Camp	*Registered Knowledge Holder names available from DPL	418137mE 8023161mN Zone 51 [Unreliable]	K02406
12837	MANANGKABU.	No	No	No Gender Restrictions	Lodged	Camp	*Registered Knowledge Holder names available from DPL	417091mE 8023020mN Zone 51 [Reliable]	K02407
12840	YARRARRA.	Yes	Yes	No Gender Restrictions	Lodged	Mythological, Camp	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K02410
12841	MARNALAKUN.	Yes	Yes	No Gender Restrictions	Lodged	Skeletal Material / Burial, Camp	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K02411
12874	ROEBUCK BAY MIDDEN	No	No	No Gender Restrictions	Lodged	Artefacts / Scatter, Midden / Scatter	*Registered Knowledge Holder names available from DPL	417937mE 8012161mN Zone 51 [Reliable]	K02333
12885	NIMALAICA CLAYPAN.	No	No	No Gender Restrictions	Lodged	Artefacts / Scatter, Midden / Scatter, Camp, Hunting Place, Water Source	*Registered Knowledge Holder names available from DPL	421987mE 8034161mN Zone 51 [Reliable]	K02344
12886	ILLANGARAMI	Yes	Yes	No Gender Restrictions	Lodged	Mythological	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K02345
12887	BALLIWANDUNA	Yes	Yes	No Gender Restrictions	Lodged	Mythological	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K02346
12889	NUNUKURAKUN	Yes	Yes	No Gender Restrictions	Lodged	Ceremonial, Mythological	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K02348
12890	JIBIDANGKUN.	No	No	No Gender Restrictions	Lodged	Camp	*Registered Knowledge Holder names available from DPL	417175mE 8028548mN Zone 51 [Reliable]	K02349
12899	KULMUKARAKUN JUNO 2	No	No	No Gender Restrictions	Lodged	Artefacts / Scatter, Midden / Scatter	*Registered Knowledge Holder names available from DPL	409834mE 8071632mN Zone 51 [Reliable]	K02305
12900	NGARRIMARRAN JUNO QUARRY	No	No	No Gender Restrictions	Lodged	Artefacts / Scatter, Quarry	*Registered Knowledge Holder names available from DPL	409995mE 8068638mN Zone 51 [Reliable]	K02306



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ID	Name	File Restricted	Boundary Restricted	Restrictions	Status	Type	Knowledge Holders	Coordinate	Legacy ID
12901	MURRDUDUN	No	No	No Gender Restrictions	Lodged	Artefacts / Scatter, Midden / Scatter, Mythological, Other: Part of Failed PA 139. APMC Res 11/89	*Registered Knowledge Holder names available from DPL	409537mE 8058461mN Zone 51 [Unreliable]	K02307
12941	BINDINGANKUNY 1.	No	No	No Gender Restrictions	Lodged	Artefacts / Scatter, Midden / Scatter, Camp	*Registered Knowledge Holder names available from DPL	411137mE 8082861mN Zone 51 [Reliable]	K02295
12942	BINDINGANKUNY 2.	No	No	No Gender Restrictions	Lodged	Artefacts / Scatter, Midden / Scatter, Camp	*Registered Knowledge Holder names available from DPL	411137mE 8082561mN Zone 51 [Reliable]	K02296
12943	BINDINGANKUNY 3.	No	No	No Gender Restrictions	Lodged	Artefacts / Scatter, Midden / Scatter, Camp	*Registered Knowledge Holder names available from DPL	410937mE 8082161mN Zone 51 [Reliable]	K02297
12961	NEW COOTENBRAND WELL 1.	No	No	No Gender Restrictions	Lodged	Midden / Scatter, Camp, Other: ?	*Registered Knowledge Holder names available from DPL	794340mE 7787256mN Zone 50 [Reliable]	K02262
12962	NEW COOTENBRAND WELL 2	No	No	No Gender Restrictions	Lodged	Midden / Scatter	*Registered Knowledge Holder names available from DPL	794040mE 7787456mN Zone 50 [Reliable]	K02263
12963	CAPE KERAUDREN 1	No	No	No Gender Restrictions	Lodged	Midden / Scatter	*Registered Knowledge Holder names available from DPL	792040mE 7789156mN Zone 50 [Reliable]	K02264
13023	RANKIN ISLAND.	No	No	No Gender Restrictions	Lodged	Artefacts / Scatter, Man-Made Structure, Rockshelter, Water Source	*Registered Knowledge Holder names available from DPL	648637mE 8195161mN Zone 51 [Reliable]	K02215
13043	WIDGINGARRI SHELTER 8.	Yes	Yes	No Gender Restrictions	Lodged	Rockshelter, Skeletal Material / Burial	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K02184
13048	WIDGINGARRI SHELTER 13.	Yes	Yes	No Gender Restrictions	Lodged	Rockshelter, Camp	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K02189
13051	WIDGINGARRI SHELTER 16.	Yes	Yes	No Gender Restrictions	Lodged	Painting, Skeletal Material / Burial, Camp	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K02192
13054	BARGAJOC NEW SOAK.	No	No	No Gender Restrictions	Lodged	Water Source	*Registered Knowledge Holder names available from DPL	444911mE 8129056mN Zone 51 [Reliable]	K02195

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ID	Name	File Restricted	Boundary Restricted	Restrictions	Status	Type	Knowledge Holders	Coordinate	Legacy ID
13308	IRVINE ISLAND: WATERHOLE.	Yes	Yes	Male Access Only	Lodged	Water Source	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K01915
13318	IRVINE ISLAND: DEPRESSIONS	Yes	Yes	Male Access Only	Lodged	Ceremonial, Mythological	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K01925
13338	COOTENBRAND FISH TRAPS	No	No	No Gender Restrictions	Lodged	Fish Trap	*Registered Knowledge Holder names available from DPL	806640mE 7787656mN Zone 50 [Unreliable]	K01887
13341	SLATE ISLAND	No	No	No Gender Restrictions	Lodged	Skeletal Material / Burial	*Registered Knowledge Holder names available from DPL	650385mE 8282487mN Zone 51 [Reliable]	K01891
13393	IRON ISLAND	No	No	No Gender Restrictions	Lodged	Artefacts / Scatter, Midden / Scatter	*Registered Knowledge Holder names available from DPL	585137mE 8212461mN Zone 51 [Reliable]	K01782
13399	TOOKER POINT DUNES 2.	No	No	No Gender Restrictions	Lodged	Camp	*Registered Knowledge Holder names available from DPL	448512mE 8127051mN Zone 51 [Reliable]	K01788
13400	BORE	No	No	No Gender Restrictions	Lodged	Midden / Scatter	*Registered Knowledge Holder names available from DPL	447637mE 8127661mN Zone 51 [Unreliable]	K01789
13462	DESAIX ISLANDS SOUTH	No	No	No Gender Restrictions	Lodged	Man-Made Structure	*Registered Knowledge Holder names available from DPL	705136mE 8349461mN Zone 51 [Reliable]	K01691
13494	NOLDJON.	No	No	No Gender Restrictions	Lodged	Midden / Scatter, Camp	*Registered Knowledge Holder names available from DPL	502413mE 8189889mN Zone 51 [Reliable]	K01668
13495	DJENGANAN.	No	No	No Gender Restrictions	Lodged	Midden / Scatter, Camp	*Registered Knowledge Holder names available from DPL	502600mE 8188526mN Zone 51 [Reliable]	K01669
13496	BIRGELAN	Yes	Yes	No Gender Restrictions	Lodged	Mythological	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K01670
13498	DJULNAM.	No	No	No Gender Restrictions	Lodged	Water Source	*Registered Knowledge Holder names available from DPL	502637mE 8188661mN Zone 51 [Unreliable]	K01672



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ID	Name	File Restricted	Boundary Restricted	Restrictions	Status	Type	Knowledge Holders	Coordinate	Legacy ID
13499	MAYON MAYON.	No	No	No Gender Restrictions	Lodged	Water Source	*Registered Knowledge Holder names available from DPL	501422mE 8188827mN Zone 51 [Reliable]	K01673
13527	KUNMUNYA MISSION 3	No	No	No Gender Restrictions	Lodged	Artefacts / Scatter	*Registered Knowledge Holder names available from DPL	683637mE 8294661mN Zone 51 [Unreliable]	K01645
13529	CAMDEN HARBOUR	No	No	No Gender Restrictions	Lodged	Artefacts / Scatter	*Registered Knowledge Holder names available from DPL	675637mE 8283661mN Zone 51 [Unreliable]	K01647
13595	GALE ISLAND EAST	No	No	No Gender Restrictions	Lodged	Man-Made Structure	*Registered Knowledge Holder names available from DPL	707136mE 8348661mN Zone 51 [Reliable]	K01554
13731	PIDIRNGAPA.	No	No	No Gender Restrictions	Lodged	Mythological, Water Source	*Registered Knowledge Holder names available from DPL	367637mE 7945661mN Zone 51 [Unreliable]	K01382
13732	JIDAMUNGA.	Yes	Yes	No Gender Restrictions	Lodged	Mythological, Natural Feature	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K01383
13733	JINJAGURIN / NUNDUNARR.	Yes	Yes	No Gender Restrictions	Lodged	Mythological, Water Source	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K01384
13734	LALUJADU.	No	No	No Gender Restrictions	Lodged	Mythological, Other: LIVING SOAK	*Registered Knowledge Holder names available from DPL	371637mE 7934661mN Zone 51 [Unreliable]	K01385
13888	MWARNGUN	No	No	No Gender Restrictions	Lodged		*Registered Knowledge Holder names available from DPL	505136mE 8185162mN Zone 51 [Reliable]	K01204
13889	DJUGOGUN	No	No	No Gender Restrictions	Lodged		*Registered Knowledge Holder names available from DPL	505136mE 8185162mN Zone 51 [Reliable]	K01205
13890	GALLEN WELL	Yes	Yes	No Gender Restrictions	Lodged		*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K01206
13891	ANDON	No	No	No Gender Restrictions	Lodged		*Registered Knowledge Holder names available from DPL	497849mE 8171147mN Zone 51 [Reliable]	K01207

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ID	Name	File Restricted	Boundary Restricted	Restrictions	Status	Type	Knowledge Holders	Coordinate	Legacy ID
13892	BANAMBAN	No	No	No Gender Restrictions	Lodged		*Registered Knowledge Holder names available from DPL	495000mE 8168000mN Zone 51 [Unreliable]	K01208
13893	GULMAN	No	No	No Gender Restrictions	Lodged		*Registered Knowledge Holder names available from DPL	495000mE 8164000mN Zone 51 [Unreliable]	K01209
13895	RALALAN	Yes	Yes	No Gender Restrictions	Lodged		*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K01211
13896	DJULBARRDA	Yes	Yes	No Gender Restrictions	Lodged		*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K01212
13897	DUDUD	Yes	Yes	No Gender Restrictions	Lodged		*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K01213
13898	NGAMBINAN	Yes	Yes	No Gender Restrictions	Lodged		*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K01214
13899	WALAMBANGUN	No	No	No Gender Restrictions	Lodged		*Registered Knowledge Holder names available from DPL	476637mE 8140661mN Zone 51 [Unreliable]	K01215
13900	NGORDA	No	No	No Gender Restrictions	Lodged		*Registered Knowledge Holder names available from DPL	492637mE 8142661mN Zone 51 [Unreliable]	K01216
13924	NARIGUN.	Yes	Yes	No Gender Restrictions	Lodged	Hunting Place	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K01185
13934	MILIMILAN	Yes	Yes	No Gender Restrictions	Lodged		*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K01195
13935	BALBIRRON	Yes	Yes	No Gender Restrictions	Lodged		*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K01196
13936	BIWDAGUN	No	No	No Gender Restrictions	Lodged		*Registered Knowledge Holder names available from DPL	495136mE 8185161mN Zone 51 [Unreliable]	K01197



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ID	Name	File Restricted	Boundary Restricted	Restrictions	Status	Type	Knowledge Holders	Coordinate	Legacy ID
13937	DJAMBULLON	No	No	No Gender Restrictions	Lodged		*Registered Knowledge Holder names available from DPL	495136mE 8185161mN Zone 51 [Unreliable]	K01198
13938	NIMAMARA	No	No	No Gender Restrictions	Lodged		*Registered Knowledge Holder names available from DPL	505136mE 8185162mN Zone 51 [Reliable]	K01199
13939	GUNDALMARA	Yes	Yes	No Gender Restrictions	Lodged		*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K01200
13940	BALAWGANAN	Yes	Yes	No Gender Restrictions	Lodged		*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K01201
13941	DJARRAMARRON	Yes	Yes	No Gender Restrictions	Lodged		*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K01202
13965	NIMANBIGUN.	Yes	Yes	No Gender Restrictions	Lodged	Camp	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K01171
13966	KARLANUN.	Yes	Yes	No Gender Restrictions	Lodged	Hunting Place	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K01172
14132	SECURE BAY 3	No	No	No Gender Restrictions	Lodged	Man-Made Structure	*Registered Knowledge Holder names available from DPL	634234mE 8183350mN Zone 51 [Reliable]	K00957
14148	MIDDLE OSBORNE ISLAND.	No	No	No Gender Restrictions	Lodged	Man-Made Structure, Midden / Scatter, Water Source	*Registered Knowledge Holder names available from DPL	823003mE 8418372mN Zone 51 [Reliable]	K00973
14163	CROWLEY HIGHWAY 7	No	No	No Gender Restrictions	Lodged	Artefacts / Scatter	*Registered Knowledge Holder names available from DPL	647099mE 8154980mN Zone 51 [Reliable]	K00934
14164	CROWLEY HIGHWAY 8	No	No	No Gender Restrictions	Lodged	Artefacts / Scatter	*Registered Knowledge Holder names available from DPL	648637mE 8157661mN Zone 51 [Unreliable]	K00935
14184	SECURE BAY 1	No	No	No Gender Restrictions	Lodged	Man-Made Structure	*Registered Knowledge Holder names available from DPL	633898mE 8183802mN Zone 51 [Reliable]	K00955

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14185	SECURE BAY 2	No	No	No Gender Restrictions	Lodged	Man-Made Structure	*Registered Knowledge Holder names available from DPL	634435mE 8183705mN Zone 51 [Reliable]	K00956
14201	CONE BAY AXE	No	No	No Gender Restrictions	Stored Data / Not a Site	Artefacts / Scatter	*Registered Knowledge Holder names available from DPL	574637mE 8174661mN Zone 51 [Unreliable]	K00918
14202	CONE BAY 1	No	No	No Gender Restrictions	Lodged	Midden / Scatter	*Registered Knowledge Holder names available from DPL	571637mE 8175661mN Zone 51 [Unreliable]	K00919
14210	CROWLEY HIGHWAY 1	No	No	No Gender Restrictions	Stored Data / Not a Site	Artefacts / Scatter	*Registered Knowledge Holder names available from DPL	625637mE 8154661mN Zone 51 [Unreliable]	K00928
14212	CROWLEY HIGHWAY 3	No	No	No Gender Restrictions	Stored Data / Not a Site	Artefacts / Scatter	*Registered Knowledge Holder names available from DPL	639937mE 8151561mN Zone 51 [Unreliable]	K00930
14267	KOOLUNG-GOOLUNG	No	No	No Gender Restrictions	Stored Data / Not a Site	Mythological, Repository / Cache	*Registered Knowledge Holder names available from DPL	221537mE 7792261mN Zone 51 [Reliable]	K00824
14268	WARREE HILL	No	No	No Gender Restrictions	Lodged	Mythological	*Registered Knowledge Holder names available from DPL	222137mE 7789711mN Zone 51 [Unreliable]	K00825
14271	MINARRINGY.	Yes	Yes	No Gender Restrictions	Lodged	Artefacts / Scatter, Midden / Scatter, Mythological, Skeletal Material / Burial, Camp, Water Source, Other: Failed PA 141. APMC Res 11/89	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00829
14272	CAPE KERAUDREN	No	No	No Gender Restrictions	Lodged	Grinding Patches / Grooves, Skeletal Material / Burial	*Registered Knowledge Holder names available from DPL	804140mE 7790956mN Zone 50 [Reliable]	K00830
14273	EMERIAU POINT 1	No	No	No Gender Restrictions	Lodged	Artefacts / Scatter, Midden / Scatter	*Registered Knowledge Holder names available from DPL	454437mE 8145761mN Zone 51 [Unreliable]	K00831
14311	CAPE GOURDON	Yes	Yes	No Gender Restrictions	Lodged	Mythological	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00816
14315	GLEESON MILL SITE	Yes	Yes	No Gender Restrictions	Lodged	Mythological	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00820

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ID	Name	File Restricted	Boundary Restricted	Restrictions	Status	Type	Knowledge Holders	Coordinate	Legacy ID
14316	KERAUDREN CAMP 1	Yes	Yes	No Gender Restrictions	Lodged	Ceremonial, Mythological	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00821
14317	KERAUDREN CAMP 2	Yes	Yes	No Gender Restrictions	Lodged	Ceremonial, Mythological	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00822
14416	ANNA PLAINS STATION 2	Yes	Yes	No Gender Restrictions	Lodged	Man-Made Structure, Mythological	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00688
14437	COWAN CREEK, LAGRANGE.	No	No	No Gender Restrictions	Lodged	Camp	*Registered Knowledge Holder names available from DPL	365637mE 7930661mN Zone 51 [Unreliable]	K00655
14504	CONDILLAC MIDDEN.	No	No	No Gender Restrictions	Lodged	Midden / Scatter, Camp	*Registered Knowledge Holder names available from DPL	776236mE 8438961mN Zone 51 [Unreliable]	K00550
14551	PARRY ISLAND	No	No	No Gender Restrictions	Stored Data / Not a Site		*Registered Knowledge Holder names available from DPL	798336mE 8414961mN Zone 51 [Reliable]	K00544
14554	CHRISTMAS HARBOUR	No	No	No Gender Restrictions	Lodged	Midden / Scatter	*Registered Knowledge Holder names available from DPL	785636mE 8423661mN Zone 51 [Unreliable]	K00547
14555	KURRUNGU.	No	No	No Gender Restrictions	Lodged	Midden / Scatter, Arch Deposit, Camp	*Registered Knowledge Holder names available from DPL	784488mE 8423377mN Zone 51 [Reliable]	K00548
14557	CABLE BEACH 5.	Yes	Yes	No Gender Restrictions	Lodged	Artefacts / Scatter, Ceremonial, Midden / Scatter, Mythological, Camp, Hunting Place, Other: Part of Failed PA 143. APMC 11/89	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00497
14558	BROOME JETTY	No	No	No Gender Restrictions	Stored Data / Not a Site		*Registered Knowledge Holder names available from DPL	416637mE 8009291mN Zone 51 [Unreliable]	K00498
14559	BROOME	No	No	No Gender Restrictions	Lodged	Artefacts / Scatter	*Registered Knowledge Holder names available from DPL	419726mE 8014235mN Zone 51 [Reliable]	K00499
14571	WANGAI NGDALU.	No	No	No Gender Restrictions	Stored Data / Not a Site	Plant Resource	*Registered Knowledge Holder names available from DPL	250634mE 8431664mN Zone 52 [Unreliable]	K00511



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ID	Name	File Restricted	Boundary Restricted	Restrictions	Status	Type	Knowledge Holders	Coordinate	Legacy ID
14572	NABAI ISLAND.	No	No	No Gender Restrictions	Stored Data / Not a Site	Plant Resource	*Registered Knowledge Holder names available from DPL	240748mE 8426537mN Zone 52 [Unreliable]	K00512
14576	KALINGNU ISLAND 3.	No	No	No Gender Restrictions	Stored Data / Not a Site	Plant Resource	*Registered Knowledge Holder names available from DPL	239634mE 8427664mN Zone 52 [Unreliable]	K00516
14578	CRYSTAL CREEK 2.	No	No	No Gender Restrictions	Lodged	Midden / Scatter, Rockshelter, Other: Part of Failed PA 157	*Registered Knowledge Holder names available from DPL	801636mE 8397161mN Zone 51 [Unreliable]	K00518
14610	NILAGUN, SUNDAY ISLAND.	No	No	No Gender Restrictions	Lodged	Other: LOCAL GROUP SITE	*Registered Knowledge Holder names available from DPL	518637mE 8183661mN Zone 51 [Unreliable]	K00439
14611	NGOLORON, BUCCANEER ARCHIP.	No	No	No Gender Restrictions	Lodged	Other: LOCAL GROUP SITE	*Registered Knowledge Holder names available from DPL	518637mE 8185661mN Zone 51 [Unreliable]	K00440
14612	GAWURGUN, SUNDAY ISLAND.	No	No	No Gender Restrictions	Lodged	Other: LOCAL GROUP SITE	*Registered Knowledge Holder names available from DPL	519637mE 8183661mN Zone 51 [Unreliable]	K00441
14613	BILINJBILINJ, SUNDAY ISLAND.	No	No	No Gender Restrictions	Lodged	Other: LOCAL GROUP SITE	*Registered Knowledge Holder names available from DPL	519610mE 8188256mN Zone 51 [Unreliable]	K00442
14614	NGALUN, SUNDAY ISLAND.	No	No	No Gender Restrictions	Lodged	Other: LOCAL GROUP SITE	*Registered Knowledge Holder names available from DPL	521637mE 8187661mN Zone 51 [Unreliable]	K00443
14615	UMBINAR, SUNDAY ISLAND.	No	No	No Gender Restrictions	Lodged	Other: LOCAL GROUP SITE	*Registered Knowledge Holder names available from DPL	522637mE 8186661mN Zone 51 [Unreliable]	K00444
14616	ULALA, BUCCANEER ARCHIP.	No	No	No Gender Restrictions	Lodged	Other: LOCAL GROUP SITE	*Registered Knowledge Holder names available from DPL	536637mE 8192661mN Zone 51 [Unreliable]	K00445
14618	UNGGALAIJAN.	No	No	No Gender Restrictions	Lodged	Other: LOCAL GROUP SITE	*Registered Knowledge Holder names available from DPL	539508mE 8168255mN Zone 51 [Reliable]	K00447
14620	PORTER HILL	No	No	No Gender Restrictions	Lodged	Skeletal Material / Burial	*Registered Knowledge Holder names available from DPL	545138mE 8175161mN Zone 51 [Unreliable]	K00449



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ID	Name	File Restricted	Boundary Restricted	Restrictions	Status	Type	Knowledge Holders	Coordinate	Legacy ID
14636	LIRIMARA, DAMPIERLAND.	No	No	No Gender Restrictions	Lodged	Other: LOCAL GROUP SITE	*Registered Knowledge Holder names available from DPL	501637mE 8187661mN Zone 51 [Unreliable]	K00416
14637	DJUWAN, DAMPIERLAND.	No	No	No Gender Restrictions	Lodged	Other: LOCAL GROUP SITE	*Registered Knowledge Holder names available from DPL	502637mE 8161661mN Zone 51 [Unreliable]	K00417
14638	NGILILNGA, DAMPIERLAND.	No	No	No Gender Restrictions	Lodged	Other: LOCAL GROUP SITE	*Registered Knowledge Holder names available from DPL	502637mE 8162661mN Zone 51 [Unreliable]	K00418
14639	MARILDJINON, DAMPIERLAND.	No	No	No Gender Restrictions	Lodged	Other: LOCAL GROUP SITE	*Registered Knowledge Holder names available from DPL	502637mE 8182661mN Zone 51 [Unreliable]	K00419
14640	GAMBANAN, DAMPIERLAND.	Yes	Yes	No Gender Restrictions	Lodged	Fish Trap, Ochre, Other: LOCAL GROUP SITE	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00420
14641	NGARINARA, DAMPIERLAND.	Yes	Yes	No Gender Restrictions	Lodged	Other: LOCAL GROUP SITE	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00421
14642	GADIMAN, DAMPIERLAND.	Yes	Yes	No Gender Restrictions	Lodged	Other: LOCAL GROUP SITE	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00422
14643	GUNJADLIN, DAMPIERLAND.	No	No	No Gender Restrictions	Lodged	Other: LOCAL GROUP SITE	*Registered Knowledge Holder names available from DPL	503586mE 8158609mN Zone 51 [Reliable]	K00423
14644	LAMBILAMBON, DAMPIERLAND.	No	No	No Gender Restrictions	Lodged	Other: LOCAL GROUP SITE	*Registered Knowledge Holder names available from DPL	503518mE 8160647mN Zone 51 [Reliable]	K00424
14645	MALDJIN, DAMPIERLAND.	No	No	No Gender Restrictions	Lodged	Other: LOCAL GROUP SITE	*Registered Knowledge Holder names available from DPL	503637mE 8162661mN Zone 51 [Unreliable]	K00425
14646	MALUMBU, DAMPIERLAND.	Yes	Yes	No Gender Restrictions	Lodged	Other: LOCAL GROUP SITE	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00426
14647	DJAMBONNGINJ, DAMPIERLAND.	No	No	No Gender Restrictions	Lodged	Other: LOCAL GROUP SITE	*Registered Knowledge Holder names available from DPL	503355mE 8188421mN Zone 51 [Reliable]	K00427



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ID	Name	File Restricted	Boundary Restricted	Restrictions	Status	Type	Knowledge Holders	Coordinate	Legacy ID
14648	CYGNET HILL.	No	No	No Gender Restrictions	Lodged	Water Source	*Registered Knowledge Holder names available from DPL	504637mE 8182661mN Zone 51 [Unreliable]	K00428
14649	NILINGAN, CYGNET HILL.	No	No	No Gender Restrictions	Lodged	Other: LOCAL GROUP SITE	*Registered Knowledge Holder names available from DPL	504637mE 8180661mN Zone 51 [Unreliable]	K00429
14650	GULBUN, DEEP WATER POINT.	No	No	No Gender Restrictions	Lodged	Other: LOCAL GROUP SITE	*Registered Knowledge Holder names available from DPL	508933mE 8155652mN Zone 51 [Reliable]	K00430
14651	ADIULUN, MIDDLE ISLAND.	No	No	No Gender Restrictions	Lodged	Other: LOCAL GROUP SITE	*Registered Knowledge Holder names available from DPL	508938mE 8181750mN Zone 51 [Reliable]	K00431
14652	NULURUD, DAMPIERLAND.	No	No	No Gender Restrictions	Lodged	Other: LOCAL GROUP SITE	*Registered Knowledge Holder names available from DPL	509736mE 8152560mN Zone 51 [Unreliable]	K00432
14653	DJAIJIRI, BUCCANEER ARCHIP.	No	No	No Gender Restrictions	Lodged	Other: LOCAL GROUP SITE	*Registered Knowledge Holder names available from DPL	511556mE 8183587mN Zone 51 [Reliable]	K00433
14654	WA:RA, CUNNINGHAM POINT.	No	No	No Gender Restrictions	Lodged	Other: LOCAL GROUP SITE	*Registered Knowledge Holder names available from DPL	513636mE 8152660mN Zone 51 [Unreliable]	K00434
14655	BIDJINGAN, DAMPIERLAND.	No	No	No Gender Restrictions	Lodged	Other: LOCAL GROUP SITE	*Registered Knowledge Holder names available from DPL	514136mE 8150560mN Zone 51 [Unreliable]	K00435
14656	DJALAN, BUCCANEER ARCHIP.	No	No	No Gender Restrictions	Lodged	Other: LOCAL GROUP SITE	*Registered Knowledge Holder names available from DPL	513603mE 8186629mN Zone 51 [Reliable]	K00436
14657	GARAMAL, DAMPIERLAND.	No	No	No Gender Restrictions	Lodged	Other: LOCAL GROUP SITE	*Registered Knowledge Holder names available from DPL	514657mE 8154612mN Zone 51 [Reliable]	K00437
14658	BULNGINJI, BUCCANEER ARCHIP.	No	No	No Gender Restrictions	Lodged	Other: LOCAL GROUP SITE	*Registered Knowledge Holder names available from DPL	516497mE 8187462mN Zone 51 [Reliable]	K00438
14659	BURUNGGULUN.	No	No	No Gender Restrictions	Stored Data / Not a Site	Other: LOCAL GROUP SITE	*Registered Knowledge Holder names available from DPL	483136mE 8147660mN Zone 51 [Unreliable]	K00390

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14660	LAMBADADJIN.	No	No	No Gender Restrictions	Stored Data / Not a Site	Other: LOCAL GROUP SITE	*Registered Knowledge Holder names available from DPL	484336mE 8145460mN Zone 51 [Unreliable]	K00391
14661	DJILIR.	No	No	No Gender Restrictions	Stored Data / Not a Site	Other: LOCAL GROUP SITE	*Registered Knowledge Holder names available from DPL	485637mE 8173661mN Zone 51 [Unreliable]	K00392
14662	BULDINARA.	No	No	No Gender Restrictions	Stored Data / Not a Site	Other: LOCAL GROUP SITE	*Registered Knowledge Holder names available from DPL	486637mE 8174661mN Zone 51 [Unreliable]	K00393
14663	BOLG.	No	No	No Gender Restrictions	Stored Data / Not a Site	Other: LOCAL GROUP SITE	*Registered Knowledge Holder names available from DPL	489036mE 8140160mN Zone 51 [Unreliable]	K00394
14664	DJARINJAN.	No	No	No Gender Restrictions	Stored Data / Not a Site	Other: LOCAL GROUP SITE	*Registered Knowledge Holder names available from DPL	489637mE 8173661mN Zone 51 [Unreliable]	K00395
14666	DJALMBAN.	No	No	No Gender Restrictions	Stored Data / Not a Site	Other: LOCAL GROUP SITE	*Registered Knowledge Holder names available from DPL	491637mE 8179661mN Zone 51 [Unreliable]	K00397
14667	NGAMAGUN.	Yes	Yes	No Gender Restrictions	Lodged	Ceremonial, Other: LOCAL GROUP SITE	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00398
14668	GARAMBANJ.	No	No	No Gender Restrictions	Stored Data / Not a Site	Other: LOCAL GROUP SITE	*Registered Knowledge Holder names available from DPL	495637mE 8186661mN Zone 51 [Unreliable]	K00399
14669	MADNAN.	No	No	No Gender Restrictions	Stored Data / Not a Site	Other: LOCAL GROUP SITE	*Registered Knowledge Holder names available from DPL	496637mE 8165661mN Zone 51 [Unreliable]	K00400
14670	NUMADANJ.	No	No	No Gender Restrictions	Stored Data / Not a Site	Other: LOCAL GROUP SITE	*Registered Knowledge Holder names available from DPL	496637mE 8174661mN Zone 51 [Unreliable]	K00401
14671	MIDALUN.	No	No	No Gender Restrictions	Stored Data / Not a Site	Other: LOCAL GROUP SITE	*Registered Knowledge Holder names available from DPL	497637mE 8173661mN Zone 51 [Unreliable]	K00402
14672	DJANALAR.	No	No	No Gender Restrictions	Lodged	Other: LOCAL GROUP SITE	*Registered Knowledge Holder names available from DPL	499637mE 8164661mN Zone 51 [Unreliable]	K00403



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14673	MIRGULGUN.	No	No	No Gender Restrictions	Lodged	Other: LOCAL GROUP SITE	*Registered Knowledge Holder names available from DPL	499637mE 8163661mN Zone 51 [Unreliable]	K00404
14674	BALANGANAN.	No	No	No Gender Restrictions	Lodged	Other: LOCAL GROUP SITE	*Registered Knowledge Holder names available from DPL	499637mE 8180661mN Zone 51 [Unreliable]	K00405
14675	MILIGUN.	No	No	No Gender Restrictions	Lodged	Other: LOCAL GROUP SITE	*Registered Knowledge Holder names available from DPL	500637mE 8160661mN Zone 51 [Unreliable]	K00406
14679	WOOD ISLAND 1	No	No	No Gender Restrictions	Lodged	Man-Made Structure	*Registered Knowledge Holder names available from DPL	617637mE 8220661mN Zone 51 [Unreliable]	K00410
14680	WOOD ISLAND 2.	No	No	No Gender Restrictions	Lodged	Camp	*Registered Knowledge Holder names available from DPL	617637mE 8220661mN Zone 51 [Unreliable]	K00411
14704	PENDER.	No	No	No Gender Restrictions	Lodged	Artefacts / Scatter, Camp	*Registered Knowledge Holder names available from DPL	475136mE 8155161mN Zone 51 [Unreliable]	K00382
14705	DJUDUDU.	No	No	No Gender Restrictions	Stored Data / Not a Site	Other: LOCAL GROUP SITE	*Registered Knowledge Holder names available from DPL	473436mE 8153760mN Zone 51 [Unreliable]	K00383
14706	DJULBADA.	No	No	No Gender Restrictions	Stored Data / Not a Site	Other: LOCAL GROUP SITE	*Registered Knowledge Holder names available from DPL	476637mE 8165661mN Zone 51 [Unreliable]	K00384
14707	NGALANGURUN.	No	No	No Gender Restrictions	Stored Data / Not a Site	Other: LOCAL GROUP SITE	*Registered Knowledge Holder names available from DPL	477136mE 8150860mN Zone 51 [Unreliable]	K00385
14708	LUMADINAR.	No	No	No Gender Restrictions	Stored Data / Not a Site	Other: LOCAL GROUP SITE	*Registered Knowledge Holder names available from DPL	477637mE 8166661mN Zone 51 [Unreliable]	K00386
14709	DJAMBALANAN.	No	No	No Gender Restrictions	Stored Data / Not a Site	Other: LOCAL GROUP SITE	*Registered Knowledge Holder names available from DPL	478136mE 8154160mN Zone 51 [Unreliable]	K00387
14710	DJAMALALGUN.	No	No	No Gender Restrictions	Stored Data / Not a Site	Other: LOCAL GROUP SITE	*Registered Knowledge Holder names available from DPL	480136mE 8148360mN Zone 51 [Unreliable]	K00388

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ID	Name	File Restricted	Boundary Restricted	Restrictions	Status	Type	Knowledge Holders	Coordinate	Legacy ID
14711	BILILIL.	No	No	No Gender Restrictions	Stored Data / Not a Site	Other: LOCAL GROUP SITE	*Registered Knowledge Holder names available from DPL	482836mE 8148360mN Zone 51 [Unreliable]	K00389
14738	LARMI GUDANGAI.	No	No	No Gender Restrictions	Lodged	Camp, Plant Resource	*Registered Knowledge Holder names available from DPL	197234mE 8439514mN Zone 52 [Reliable]	K00311
14755	TAMARINDA.	No	No	No Gender Restrictions	Stored Data / Not a Site	Artefacts / Scatter, Midden / Scatter, Camp	*Registered Knowledge Holder names available from DPL	250634mE 8439664mN Zone 52 [Unreliable]	K00328
14765	TJARA KARI, ADMIRALTY GULF.	No	No	No Gender Restrictions	Lodged	Camp	*Registered Knowledge Holder names available from DPL	186834mE 8442164mN Zone 52 [Reliable]	K00286
14766	PALINDJI, PARRY HARBOUR.	No	No	No Gender Restrictions	Lodged	Camp	*Registered Knowledge Holder names available from DPL	186684mE 8443964mN Zone 52 [Reliable]	K00287
14767	ANILU, ADMIRALTY GULF.	No	No	No Gender Restrictions	Lodged	Camp	*Registered Knowledge Holder names available from DPL	190384mE 8438014mN Zone 52 [Unreliable]	K00288
14771	KULINDJI GUDANGAI.	No	No	No Gender Restrictions	Lodged	Camp	*Registered Knowledge Holder names available from DPL	191484mE 8437064mN Zone 52 [Unreliable]	K00292
14776	DJORNARA NDANDALU.	No	No	No Gender Restrictions	Lodged	Camp	*Registered Knowledge Holder names available from DPL	193634mE 8442664mN Zone 52 [Unreliable]	K00297
14777	ARU BULAI, FRESHWATER BAY	No	No	No Gender Restrictions	Lodged		*Registered Knowledge Holder names available from DPL	193634mE 8443664mN Zone 52 [Unreliable]	K00298
14778	UNG GAN BALA.	No	No	No Gender Restrictions	Lodged	Camp	*Registered Knowledge Holder names available from DPL	194484mE 8434164mN Zone 52 [Reliable]	K00299
14779	UNGUNU, SEAFLOWER BAY.	No	No	No Gender Restrictions	Lodged	Camp	*Registered Knowledge Holder names available from DPL	194634mE 8440664mN Zone 52 [Unreliable]	K00300
14781	YITA GUDANGAI.	No	No	No Gender Restrictions	Lodged	Camp	*Registered Knowledge Holder names available from DPL	194934mE 8439714mN Zone 52 [Reliable]	K00302



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ID	Name	File Restricted	Boundary Restricted	Restrictions	Status	Type	Knowledge Holders	Coordinate	Legacy ID
14790	WOGARAGAL.	No	No	No Gender Restrictions	Lodged	Camp	*Registered Knowledge Holder names available from DPL	195034mE 8452914mN Zone 52 [Reliable]	K00259
14792	AWADA.	No	No	No Gender Restrictions	Lodged	Camp	*Registered Knowledge Holder names available from DPL	199134mE 8453564mN Zone 52 [Reliable]	K00261
14801	CURRAN TRIG	No	No	No Gender Restrictions	Stored Data / Not a Site		*Registered Knowledge Holder names available from DPL	263634mE 8460664mN Zone 52 [Unreliable]	K00270
14804	YAUURU, PARRY HARBOUR	No	No	No Gender Restrictions	Stored Data / Not a Site		*Registered Knowledge Holder names available from DPL	177284mE 8446814mN Zone 52 [Unreliable]	K00273
14809	PARRY HARBOUR	No	No	No Gender Restrictions	Lodged	Artefacts / Scatter, Midden / Scatter	*Registered Knowledge Holder names available from DPL	179184mE 8446414mN Zone 52 [Reliable]	K00278
14810	BADAMAI.	No	No	No Gender Restrictions	Lodged	Camp	*Registered Knowledge Holder names available from DPL	178884mE 8450314mN Zone 52 [Reliable]	K00279
14811	DJIMI BADA BENDINGAI	No	No	No Gender Restrictions	Stored Data / Not a Site		*Registered Knowledge Holder names available from DPL	179034mE 8448264mN Zone 52 [Reliable]	K00280
14813	TILIRR GUDANGAI.	No	No	No Gender Restrictions	Lodged	Camp	*Registered Knowledge Holder names available from DPL	183134mE 8442264mN Zone 52 [Reliable]	K00282
14815	TJALA UNU, ADMIRALTY GULF.	No	No	No Gender Restrictions	Lodged	Camp	*Registered Knowledge Holder names available from DPL	184234mE 8442014mN Zone 52 [Reliable]	K00284
14816	GURARINGAI.	No	No	No Gender Restrictions	Lodged	Camp	*Registered Knowledge Holder names available from DPL	177184mE 8458264mN Zone 52 [Reliable]	K00232
14819	DJALA BIANGGANGAI.	No	No	No Gender Restrictions	Stored Data / Not a Site	Hunting Place	*Registered Knowledge Holder names available from DPL	179584mE 8458564mN Zone 52 [Unreliable]	K00235
14820	KANAMBAI, PARRY HARBOUR.	No	No	No Gender Restrictions	Lodged	Camp	*Registered Knowledge Holder names available from DPL	181635mE 8455664mN Zone 52 [Unreliable]	K00236

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ID	Name	File Restricted	Boundary Restricted	Restrictions	Status	Type	Knowledge Holders	Coordinate	Legacy ID
14821	DANDUL.	No	No	No Gender Restrictions	Lodged	Camp	*Registered Knowledge Holder names available from DPL	180584mE 8457464mN Zone 52 [Reliable]	K00237
14822	WUNARAI, PARRY HARBOUR.	No	No	No Gender Restrictions	Lodged	Camp	*Registered Knowledge Holder names available from DPL	182684mE 8454714mN Zone 52 [Reliable]	K00238
14824	YUMANGGU, PARRY HARBOUR.	No	No	No Gender Restrictions	Lodged	Camp	*Registered Knowledge Holder names available from DPL	184584mE 8453414mN Zone 52 [Reliable]	K00240
14825	KUALA BAY 1.	No	No	No Gender Restrictions	Lodged	Camp	*Registered Knowledge Holder names available from DPL	184434mE 8457364mN Zone 52 [Reliable]	K00241
14826	BIMALAL.	No	No	No Gender Restrictions	Lodged	Camp	*Registered Knowledge Holder names available from DPL	184884mE 8459064mN Zone 52 [Reliable]	K00242
14827	YALALARA.	No	No	No Gender Restrictions	Lodged	Camp	*Registered Knowledge Holder names available from DPL	185534mE 8451614mN Zone 52 [Reliable]	K00243
14828	MENGERINGAI.	No	No	No Gender Restrictions	Lodged	Camp	*Registered Knowledge Holder names available from DPL	187634mE 8452714mN Zone 52 [Reliable]	K00244
14829	KUALA BAY 2.	No	No	No Gender Restrictions	Lodged	Artefacts / Scatter, Midden / Scatter, Camp	*Registered Knowledge Holder names available from DPL	186784mE 8457614mN Zone 52 [Reliable]	K00245
14831	RED ISLAND.	No	No	No Gender Restrictions	Lodged	Camp	*Registered Knowledge Holder names available from DPL	187134mE 8461414mN Zone 52 [Reliable]	K00247
14832	MANDUREI.	No	No	No Gender Restrictions	Lodged	Camp	*Registered Knowledge Holder names available from DPL	188134mE 8457414mN Zone 52 [Reliable]	K00248
14833	KAN MANDJI.	No	No	No Gender Restrictions	Lodged	Camp	*Registered Knowledge Holder names available from DPL	190034mE 8451864mN Zone 52 [Reliable]	K00249
14834	LAININGAI 2	No	No	No Gender Restrictions	Lodged	Artefacts / Scatter, Midden / Scatter	*Registered Knowledge Holder names available from DPL	189234mE 8454264mN Zone 52 [Reliable]	K00250



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ID	Name	File Restricted	Boundary Restricted	Restrictions	Status	Type	Knowledge Holders	Coordinate	Legacy ID
14835	LANGU MANGEI.	No	No	No Gender Restrictions	Lodged	Man-Made Structure, Camp	*Registered Knowledge Holder names available from DPL	190084mE 8456464mN Zone 52 [Reliable]	K00251
14836	LAININGAI 1.	No	No	No Gender Restrictions	Lodged	Midden / Scatter, Camp	*Registered Knowledge Holder names available from DPL	190584mE 8454764mN Zone 52 [Reliable]	K00252
14837	WULUGU GUDANGAI	No	No	No Gender Restrictions	Stored Data / Not a Site		*Registered Knowledge Holder names available from DPL	190284mE 8458264mN Zone 52 [Reliable]	K00253
14838	MANGU LIMBI.	No	No	No Gender Restrictions	Lodged	Camp	*Registered Knowledge Holder names available from DPL	192434mE 8451214mN Zone 52 [Reliable]	K00254
14839	TROUGHTON ISLAND.	No	No	No Gender Restrictions	Lodged	Camp	*Registered Knowledge Holder names available from DPL	191634mE 8478664mN Zone 52 [Unreliable]	K00255
14841	WARAMALANI.	No	No	No Gender Restrictions	Lodged	Camp	*Registered Knowledge Holder names available from DPL	192334mE 8458464mN Zone 52 [Reliable]	K00257
14842	WALI PUANINGAI.	No	No	No Gender Restrictions	Lodged	Water Source	*Registered Knowledge Holder names available from DPL	192184mE 8459814mN Zone 52 [Reliable]	K00258
14867	MALAPURU, PARRY HARBOUR.	No	No	No Gender Restrictions	Lodged	Camp	*Registered Knowledge Holder names available from DPL	185134mE 8455165mN Zone 52 [Unreliable]	K00229
14868	BARGAJOC.	No	No	No Gender Restrictions	Lodged	Artefacts / Scatter, Camp	*Registered Knowledge Holder names available from DPL	444637mE 8124661mN Zone 51 [Unreliable]	K00230
14869	DAIBI, PARRY HARBOUR.	No	No	No Gender Restrictions	Lodged	Camp	*Registered Knowledge Holder names available from DPL	185134mE 8455165mN Zone 52 [Unreliable]	K00231
14870	THE GRAVEYARD 2.	No	No	No Gender Restrictions	Lodged	Camp	*Registered Knowledge Holder names available from DPL	563633mE 8195940mN Zone 51 [Reliable]	K00070
14871	AVELING ISLAND.	No	No	No Gender Restrictions	Lodged	Camp	*Registered Knowledge Holder names available from DPL	564337mE 8194661mN Zone 51 [Unreliable]	K00071



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ID	Name	File Restricted	Boundary Restricted	Restrictions	Status	Type	Knowledge Holders	Coordinate	Legacy ID
14873	THE GRAVEYARD 4.	No	No	No Gender Restrictions	Lodged	Artefacts / Scatter, Quarry, Camp	*Registered Knowledge Holder names available from DPL	575137mE 8194761mN Zone 51 [Reliable]	K00073
14874	THE GRAVEYARD 5.	No	No	No Gender Restrictions	Lodged	Camp	*Registered Knowledge Holder names available from DPL	575623mE 8188511mN Zone 51 [Reliable]	K00074
14875	KARRAKUTUTU, MARY ISLAND.	No	No	No Gender Restrictions	Lodged	Camp	*Registered Knowledge Holder names available from DPL	553081mE 8190523mN Zone 51 [Reliable]	K00075
14876	MARY ISLAND.	No	No	No Gender Restrictions	Lodged	Camp	*Registered Knowledge Holder names available from DPL	554158mE 8190002mN Zone 51 [Reliable]	K00076
14878	GERALD ISLAND.	No	No	No Gender Restrictions	Lodged	Camp	*Registered Knowledge Holder names available from DPL	562637mE 8185661mN Zone 51 [Unreliable]	K00078
14879	STRICKLAND BAY.	No	No	No Gender Restrictions	Stored Data / Not a Site	Camp	*Registered Knowledge Holder names available from DPL	563637mE 8184661mN Zone 51 [Unreliable]	K00079
14880	EUORAPA, STRICKLAND BAY.	No	No	No Gender Restrictions	Stored Data / Not a Site	Camp	*Registered Knowledge Holder names available from DPL	566637mE 8182661mN Zone 51 [Unreliable]	K00080
14881	TJUKUNJMA, CONE BAY.	No	No	No Gender Restrictions	Lodged	Camp	*Registered Knowledge Holder names available from DPL	553556mE 8177227mN Zone 51 [Unreliable]	K00081
14882	MALALPA, CONE BAY.	No	No	No Gender Restrictions	Lodged	Camp	*Registered Knowledge Holder names available from DPL	554277mE 8176626mN Zone 51 [Reliable]	K00082
14883	MANEKALEMA, PORTER HILL.	No	No	No Gender Restrictions	Lodged	Camp	*Registered Knowledge Holder names available from DPL	555284mE 8176273mN Zone 51 [Reliable]	K00083
14885	YAMOY.	No	No	No Gender Restrictions	Lodged	Camp	*Registered Knowledge Holder names available from DPL	562835mE 8175178mN Zone 51 [Reliable]	K00085
14886	FAINT POINT, CASCADE BAY.	No	No	No Gender Restrictions	Lodged	Camp	*Registered Knowledge Holder names available from DPL	545637mE 8175661mN Zone 51 [Unreliable]	K00086

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ID	Name	File Restricted	Boundary Restricted	Restrictions	Status	Type	Knowledge Holders	Coordinate	Legacy ID
14889	UNGGALAIJAN, LONG ISLAND.	No	No	No Gender Restrictions	Lodged	Artefacts / Scatter, Camp, Other: LOCAL GROUP SITE	*Registered Knowledge Holder names available from DPL	539509mE 8168288mN Zone 51 [Reliable]	K00089
14952	CASSINI ISLAND	No	No	No Gender Restrictions	Lodged	Man-Made Structure	*Registered Knowledge Holder names available from DPL	784323mE 8456687mN Zone 51 [Reliable]	K00154
14957	MITCHELL PLATEAU 4	Yes	Yes	No Gender Restrictions	Lodged	Midden / Scatter, Skeletal Material / Burial	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K00159
14959	PORT WARRENDER 1	No	No	No Gender Restrictions	Lodged	Man-Made Structure, Midden / Scatter, Other: Part of Failed PA 167	*Registered Knowledge Holder names available from DPL	806435mE 8384417mN Zone 51 [Reliable]	K00161
14974	KULU ISLAND/ HECLA ISLAND.	No	No	No Gender Restrictions	Lodged	Camp	*Registered Knowledge Holder names available from DPL	176034mE 8452714mN Zone 52 [Reliable]	K00176
14978	CHAMPAGNY ISLAND	No	No	No Gender Restrictions	Lodged	Man-Made Structure	*Registered Knowledge Holder names available from DPL	636637mE 8308661mN Zone 51 [Unreliable]	K00180
15368	WIDGINGARRI SHELTER 2.	Yes	Yes	No Gender Restrictions	Lodged	Painting, Rockshelter, Arch Deposit, BP Dating: 7780+/-390 BP, Camp	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	K02178
17566	CAPE VILLARET AREA 01	No	No	No Gender Restrictions	Lodged	Midden / Scatter	*Registered Knowledge Holder names available from DPL	411487mE 7978711mN Zone 51 [Reliable]	
17754	CAPE JAUBERT NORTH	No	No	No Gender Restrictions	Lodged	Fish Trap, Midden / Scatter	*Registered Knowledge Holder names available from DPL	348732mE 7904838mN Zone 51 [Reliable]	
17755	CAPE FREZIER (CHINAMAN'S BEACH)	No	No	No Gender Restrictions	Lodged	Fish Trap	*Registered Knowledge Holder names available from DPL	353561mE 7913389mN Zone 51 [Reliable]	
17756	YARDOOGARA 1 + 2 (CAPE VILLARET)	No	No	No Gender Restrictions	Lodged	Fish Trap	*Registered Knowledge Holder names available from DPL	403045mE 7973513mN Zone 51 [Reliable]	
17757	YARDOOGARA 3	No	No	No Gender Restrictions	Lodged	Fish Trap	*Registered Knowledge Holder names available from DPL	408557mE 7975973mN Zone 51 [Reliable]	



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ID	Name	File Restricted	Boundary Restricted	Restrictions	Status	Type	Knowledge Holders	Coordinate	Legacy ID
17758	NILMARA	No	No	No Gender Restrictions	Lodged	Artefacts / Scatter, Fish Trap	*Registered Knowledge Holder names available from DPL	451965mE 8135785mN Zone 51 [Reliable]	
17759	ORLG (CHILE CREEK)	No	No	No Gender Restrictions	Lodged	Fish Trap	*Registered Knowledge Holder names available from DPL	484189mE 8173139mN Zone 51 [Reliable]	
17760	BUNGARR / BOOLGINARA (LOMBADINA BEACH)	No	No	No Gender Restrictions	Lodged	Fish Trap	*Registered Knowledge Holder names available from DPL	489493mE 8176553mN Zone 51 [Reliable]	
17761	NIIMANAN (SKELETON POINT)	No	No	No Gender Restrictions	Lodged	Fish Trap	*Registered Knowledge Holder names available from DPL	500818mE 8173483mN Zone 51 [Reliable]	
17762	JALALANGA AYIN	No	No	No Gender Restrictions	Lodged	Fish Trap	*Registered Knowledge Holder names available from DPL	499010mE 8172376mN Zone 51 [Reliable]	
17850	BAMBOO LANDING	No	No	No Gender Restrictions	Lodged	Other: Fish Trap?	*Registered Knowledge Holder names available from DPL	371008mE 7935868mN Zone 51 [Reliable]	
17986	PUNAMII-UNPUU (MITCHELL FALLS AREA)	No	No	No Gender Restrictions	Lodged	Artefacts / Scatter, Ceremonial, Engraving, Grinding Patches / Grooves, Mythological, Painting, Quarry, Repository / Cache, Rockshelter, Skeletal Material / Burial, Arch Deposit, Camp, Hunting Place, Meeting Place, Named Place, Natural Feature, Water Source, Other: (See attached letter in site file.)	*Registered Knowledge Holder names available from DPL	789856mE 8360743mN Zone 51 [Unreliable]	
17989	WOOLGOODDING / MIDLAGUN	Yes	Yes	No Gender Restrictions	Lodged	Mythological	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	
17990	MIDDLE LAGOON WELL	No	No	No Gender Restrictions	Lodged	Historical	*Registered Knowledge Holder names available from DPL	455156mE 8144220mN Zone 51 [Reliable]	
20250	Norman Creek Luggers Camp	No	No	No Gender Restrictions	Lodged	Historical	*Registered Knowledge Holder names available from DPL	447946mE 8126145mN Zone 51 [Reliable]	



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ID	Name	File Restricted	Boundary Restricted	Restrictions	Status	Type	Knowledge Holders	Coordinate	Legacy ID
20251	Norman Creek Midden (Luggers Camp)	No	No	No Gender Restrictions	Lodged	Midden / Scatter	*Registered Knowledge Holder names available from DPL	448020mE 8126031mN Zone 51 [Reliable]	
20252	SPB27 - Sandy Point Burial	Yes	Yes	No Gender Restrictions	Lodged	Artefacts / Scatter, Midden / Scatter, Skeletal Material / Burial	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	
20253	SPB26 - Sandy Point Burial	Yes	Yes	No Gender Restrictions	Lodged	Artefacts / Scatter, Midden / Scatter, Skeletal Material / Burial	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	
20254	SPB25 - Sandy Point Burial	Yes	Yes	No Gender Restrictions	Lodged	Artefacts / Scatter, Midden / Scatter, Skeletal Material / Burial	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	
20255	SPB24 - Sandy Point Burial	Yes	Yes	No Gender Restrictions	Lodged	Artefacts / Scatter, Midden / Scatter, Skeletal Material / Burial	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	
20256	SPB23 - Sandy Point Burial	Yes	Yes	No Gender Restrictions	Lodged	Artefacts / Scatter, Midden / Scatter, Skeletal Material / Burial	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	
20257	SPB21 - Sandy Point Burial	Yes	Yes	No Gender Restrictions	Lodged	Artefacts / Scatter, Midden / Scatter, Skeletal Material / Burial	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	
20258	SPB20 - Sandy Point Burial	Yes	Yes	No Gender Restrictions	Lodged	Artefacts / Scatter, Midden / Scatter, Skeletal Material / Burial	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	
20259	SPB17 - Sandy Point Burial	Yes	Yes	No Gender Restrictions	Lodged	Historical, Skeletal Material / Burial	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	
20260	SPB18 - Sandy Point Burial	Yes	Yes	No Gender Restrictions	Lodged	Midden / Scatter, Skeletal Material / Burial	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	
20621	Bedout Island	No	No	No Gender Restrictions	Lodged	Mythological, Natural Feature, Other: Island	*Registered Knowledge Holder names available from DPL	720197mE 7832653mN Zone 50 [Reliable]	
22059	K04-01 Goats Head Bluff	Yes	Yes	No Gender Restrictions	Lodged	Artefacts / Scatter, Rockshelter, Camp	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	

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ID	Name	File Restricted	Boundary Restricted	Restrictions	Status	Type	Knowledge Holders	Coordinate	Legacy ID
24152	Saltwater Country - reef sites and fish traps (Maret Island)	Yes	Yes	No Gender Restrictions	Lodged	Ceremonial, Fish Trap, Historical, Mythological, Rockshelter, Arch Deposit, Camp, Hunting Place, Meeting Place, Named Place, Natural Feature, Ochre, Plant Resource, Shell, Water Source	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	
24153	Jaradanyingga - Jaajaal	Yes	Yes	Other Restrictions	Lodged	Ceremonial, Historical, Quarry, Rockshelter, Arch Deposit, Camp, Hunting Place, Meeting Place, Named Place, Natural Feature, Ochre, Plant Resource, Shell, Water Source	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	
24760	Irvine Island Rockshelter	No	No	No Gender Restrictions	Lodged	Artefacts / Scatter, Rockshelter, Arch Deposit	*Registered Knowledge Holder names available from DPL	558954mE 8221110mN Zone 51 [Unreliable]	
24787	Lombadina 1	No	No	No Gender Restrictions	Lodged	Artefacts / Scatter, Man-Made Structure, Midden / Scatter, Camp, Shell	*Registered Knowledge Holder names available from DPL	488608mE 8175424mN Zone 51 [Reliable]	
24788	Gooljiman 2	No	No	No Gender Restrictions	Lodged	Artefacts / Scatter, Midden / Scatter, Camp, Shell	*Registered Knowledge Holder names available from DPL	492883mE 8186994mN Zone 51 [Reliable]	
28709	Reindeer Rock (Lower Mitchell River LMR01)	No	No	No Gender Restrictions	Lodged	Artefacts / Scatter, Ceremonial, Grinding Patches / Grooves, Painting, Rockshelter, Arch Deposit, Camp, Shell, Water Source	*Registered Knowledge Holder names available from DPL	787333mE 8370337mN Zone 51 [Reliable]	
28710	Lower Mitchell River LMR02	No	No	No Gender Restrictions	Lodged	Artefacts / Scatter, Rockshelter, Arch Deposit	*Registered Knowledge Holder names available from DPL	787058mE 8366897mN Zone 51 [Reliable]	
30274	LSC11	Yes	Yes	No Gender Restrictions	Stored Data / Not a Site	Artefacts / Scatter, Ceremonial, Fish Trap, Midden / Scatter, Mythological, Quarry, Repository / Cache, Skeletal Material / Burial, Arch Deposit, Camp, Meeting Place, Named Place, Natural Feature, Ochre, Plant Resource, Shell, Water Source	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	

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ID	Name	File Restricted	Boundary Restricted	Restrictions	Status	Type	Knowledge Holders	Coordinate	Legacy ID
32446	Gardarlagun	No	No	No Gender Restrictions	Contact DPLH		*Registered Knowledge Holder names available from DPL	409459mE 8062424mN Zone 51 [Reliable]	
32448	Gundandu	No	No	No Gender Restrictions	Contact DPLH		*Registered Knowledge Holder names available from DPL	424338mE 8062254mN Zone 51 [Reliable]	
32623	Onshore Geotech Shell Scatter 1	No	No	No Gender Restrictions	Stored Data / Not a Site	Midden / Scatter, Shell	*Registered Knowledge Holder names available from DPL	410758mE 8063624mN Zone 51 [Reliable]	
32839	Gurrjungu SA-0111	No	No	No Gender Restrictions	Stored Data / Not a Site	Fish Trap	*Registered Knowledge Holder names available from DPL	416496mE 8009411mN Zone 51 [Reliable]	
32967	MM01	No	No	No Gender Restrictions	Lodged	Artefacts / Scatter, Painting, Rockshelter	*Registered Knowledge Holder names available from DPL	787195mE 8370492mN Zone 51 [Reliable]	
32968	MM02	No	No	No Gender Restrictions	Lodged	Artefacts / Scatter, Painting, Rockshelter	*Registered Knowledge Holder names available from DPL	787195mE 8370492mN Zone 51 [Reliable]	
32969	MM03	No	No	No Gender Restrictions	Lodged	Artefacts / Scatter, Painting, Rockshelter	*Registered Knowledge Holder names available from DPL	787171mE 8370425mN Zone 51 [Reliable]	
32970	MM04	No	No	No Gender Restrictions	Lodged	Artefacts / Scatter, Painting, Rockshelter, Arch Deposit	*Registered Knowledge Holder names available from DPL	787092mE 8370445mN Zone 51 [Reliable]	
32972	MM6 (a & b)	No	No	No Gender Restrictions	Lodged	Artefacts / Scatter, Painting, Quarry, Rockshelter	*Registered Knowledge Holder names available from DPL	787226mE 8370231mN Zone 51 [Reliable]	
32974	MM08	No	No	No Gender Restrictions	Lodged	Skeletal Material / Burial	*Registered Knowledge Holder names available from DPL	787451mE 8370366mN Zone 51 [Reliable]	
32978	MM12	No	No	No Gender Restrictions	Lodged	Artefacts / Scatter, Painting, Rockshelter	*Registered Knowledge Holder names available from DPL	787646mE 8370665mN Zone 51 [Reliable]	
32979	MM13	No	No	No Gender Restrictions	Lodged	Artefacts / Scatter, Painting, Quarry, Rockshelter	*Registered Knowledge Holder names available from DPL	787942mE 8370565mN Zone 51 [Reliable]	

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ID	Name	File Restricted	Boundary Restricted	Restrictions	Status	Type	Knowledge Holders	Coordinate	Legacy ID
32981	MM15	No	No	No Gender Restrictions	Lodged	Artefacts / Scatter, Painting, Quarry, Rockshelter	*Registered Knowledge Holder names available from DPL	787371mE 8370059mN Zone 51 [Reliable]	
32983	MM18	No	No	No Gender Restrictions	Lodged	Artefacts / Scatter, Painting, Rockshelter, Ochre	*Registered Knowledge Holder names available from DPL	787206mE 8369826mN Zone 51 [Reliable]	
32988	MM22	No	No	No Gender Restrictions	Lodged	Artefacts / Scatter, Grinding Patches / Grooves, Painting, Quarry, Rockshelter	*Registered Knowledge Holder names available from DPL	787199mE 8369815mN Zone 51 [Reliable]	
32989	MM25	No	No	No Gender Restrictions	Lodged	Artefacts / Scatter, Grinding Patches / Grooves, Painting, Quarry, Rockshelter, Skeletal Material / Burial	*Registered Knowledge Holder names available from DPL	786534mE 8370985mN Zone 51 [Reliable]	
32996	LMR_North1	No	Yes	No Gender Restrictions	Lodged	Painting, Rockshelter	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	
32997	LMR_North2	No	Yes	No Gender Restrictions	Lodged	Painting, Rockshelter	*Registered Knowledge Holder names available from DPL	Not available when location is restricted	
33005	MB03	No	No	No Gender Restrictions	Lodged	Artefacts / Scatter, Painting, Rockshelter	*Registered Knowledge Holder names available from DPL	787703mE 8363489mN Zone 51 [Reliable]	
33007	MB05	No	No	No Gender Restrictions	Lodged	Artefacts / Scatter, Grinding Patches / Grooves, Painting, Rockshelter	*Registered Knowledge Holder names available from DPL	787698mE 8363552mN Zone 51 [Reliable]	
33490	Mike Morwood	No	No	No Gender Restrictions	Lodged	Artefacts / Scatter, Painting, Rockshelter, Arch Deposit	*Registered Knowledge Holder names available from DPL	787255mE 8370466mN Zone 51 [Reliable]	
33491	One Tree Beach 01	No	No	No Gender Restrictions	Lodged	Artefacts / Scatter, Grinding Patches / Grooves, Midden / Scatter, Painting, Rockshelter, Arch Deposit, Shell	*Registered Knowledge Holder names available from DPL	814573mE 8390083mN Zone 51 [Reliable]	
33492	One Tree Beach 02	No	No	No Gender Restrictions	Lodged	Midden / Scatter, Painting, Rockshelter, Arch Deposit, Shell	*Registered Knowledge Holder names available from DPL	814568mE 8388977mN Zone 51 [Reliable]	
33495	One Tree Beach 05	No	No	No Gender Restrictions	Lodged	Artefacts / Scatter, Midden / Scatter, Painting, Rockshelter, Arch Deposit, Shell	*Registered Knowledge Holder names available from DPL	814769mE 8389285mN Zone 51 [Reliable]	



## Aboriginal Heritage Inquiry System

### List of Other Heritage Places

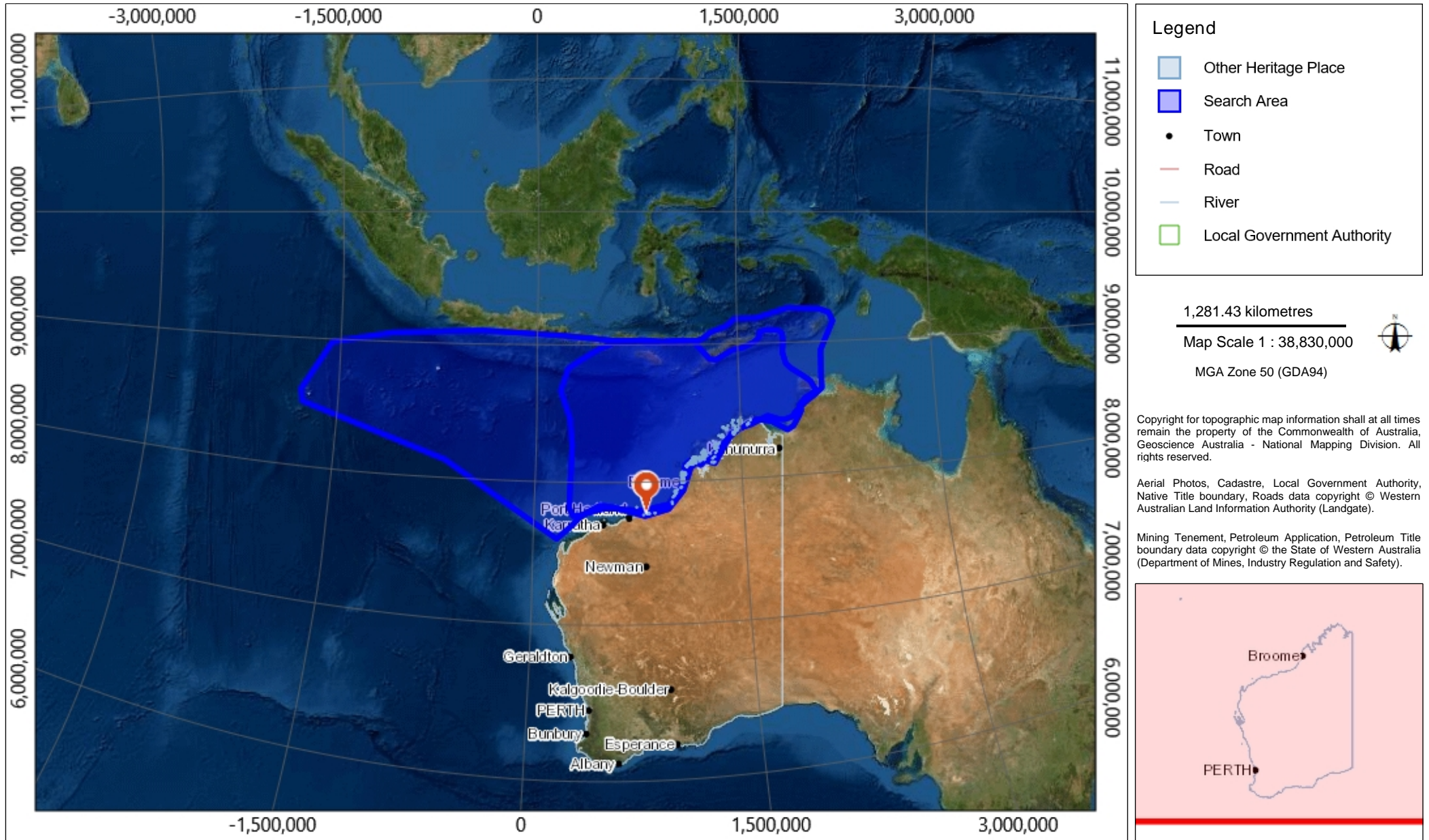
ID	Name	File Restricted	Boundary Restricted	Restrictions	Status	Type	Knowledge Holders	Coordinate	Legacy ID
33503	Stone Bone Yard 01	No	No	No Gender Restrictions	Lodged	Artefacts / Scatter, Grinding Patches / Grooves, Painting, Rockshelter, Arch Deposit, Shell	*Registered Knowledge Holder names available from DPL	179466mE 8401021mN Zone 52 [Reliable]	
33526	Kimberley Coastal Camp 01	No	No	No Gender Restrictions	Lodged	Artefacts / Scatter, Grinding Patches / Grooves, Painting, Rockshelter, Arch Deposit, Shell	*Registered Knowledge Holder names available from DPL	814953mE 8386517mN Zone 51 [Reliable]	
35208	Bidyadanga Ceremonial Camp Site and Burial Site	No	No		Lodged	Ceremonial, Skeletal Material / Burial, Camp	*Registered Knowledge Holder names available from DPL	371875mE 7933542mN Zone 51 [Reliable]	
36694	ILLANGARAMI 1	No	No		Stored Data / Not a Site		*Registered Knowledge Holder names available from DPL	419862mE 8014464mN Zone 51 [Reliable]	
36695	UNDANDA 1	No	No		Stored Data / Not a Site		*Registered Knowledge Holder names available from DPL	419946mE 8014469mN Zone 51 [Reliable]	
36971	Pardoo Grinding Grooves	No	No		Lodged		*Registered Knowledge Holder names available from DPL	767628mE 7777649mN Zone 50 [Reliable]	



# Aboriginal Heritage Inquiry System

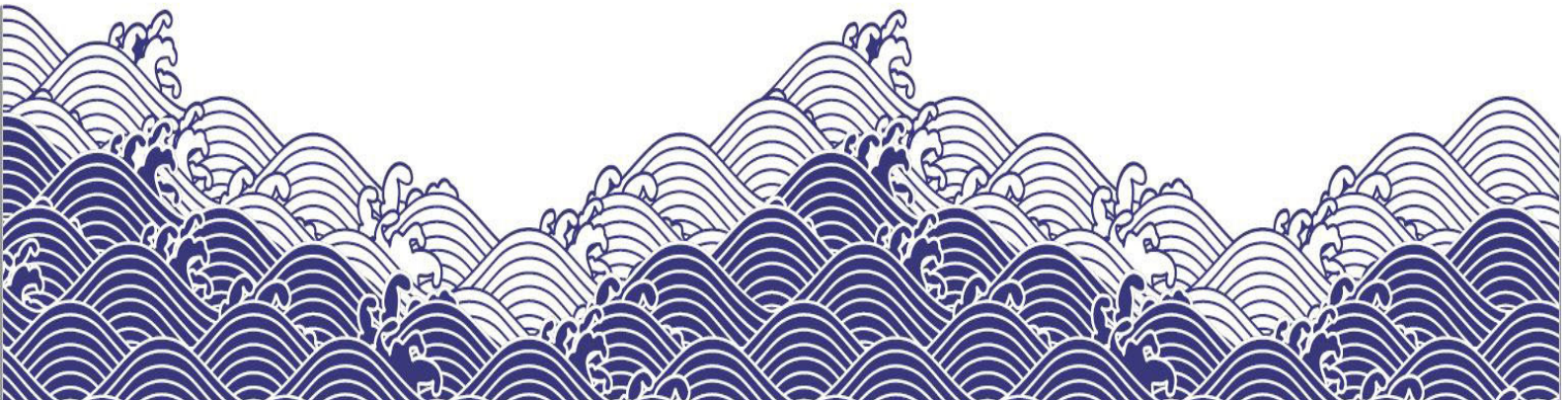
## Map of Other Heritage Places

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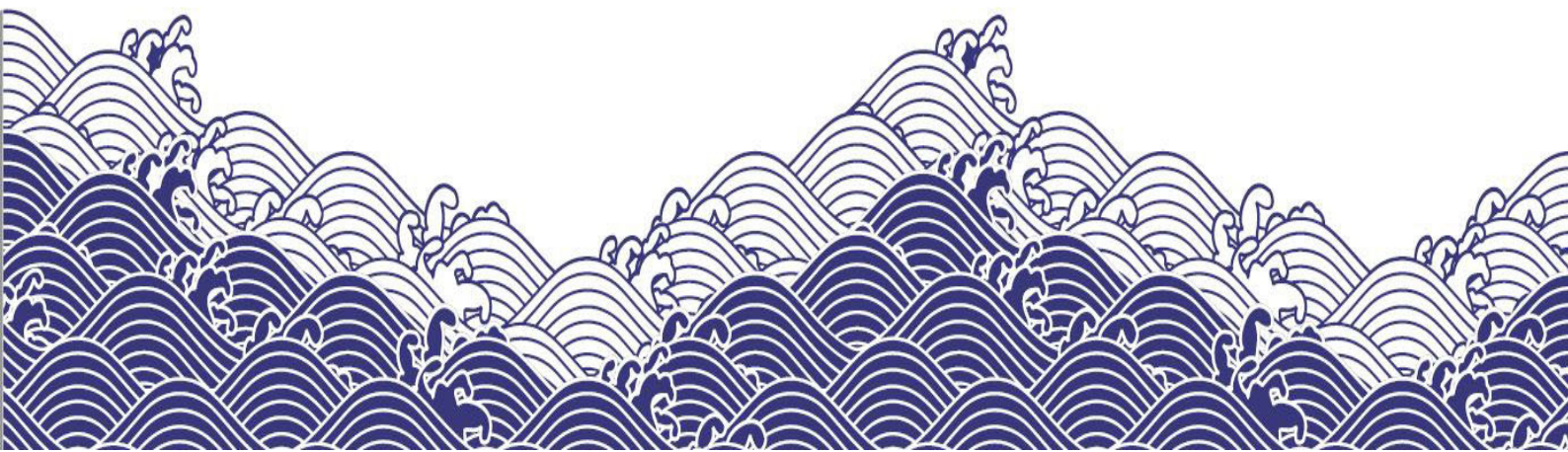
**INPEX**

# Appendix B- Relevant Person Consultation





# Appendix B.1– Relevant Persons Consultation: 2022 Methodology



## 1 STAKEHOLDER CONSULTATION

INPEX has been a member of the Australian business community since 1986 and during this time has engaged on a regular basis with stakeholders in WA and in federal jurisdictions on a broad range of activities. INPEX maintains a corporate webpage (<http://www.inpex.com.au>) to provide company and project-related information to the public. INPEX also participates in industry forums, conferences and community meetings in order to facilitate opportunities for meaningful engagement about current and future activities.

INPEX acknowledges the importance of consultation to ensure that persons who may be affected by a proposed activity ('relevant persons') are informed about the proposed activity and have the opportunity to advise INPEX of any functions, interests or activities that could be impacted by the proposed activity.

INPEX's awareness of the functions, interests or activities of relevant persons supports the development of management plans that consider and address any environmental, social or economic objections or claims about the proposed activity.

INPEX's process for stakeholder engagement (consultation) in the development and implementation of an EP and relevant management plans is shown in Figure 1 and further described in this section.

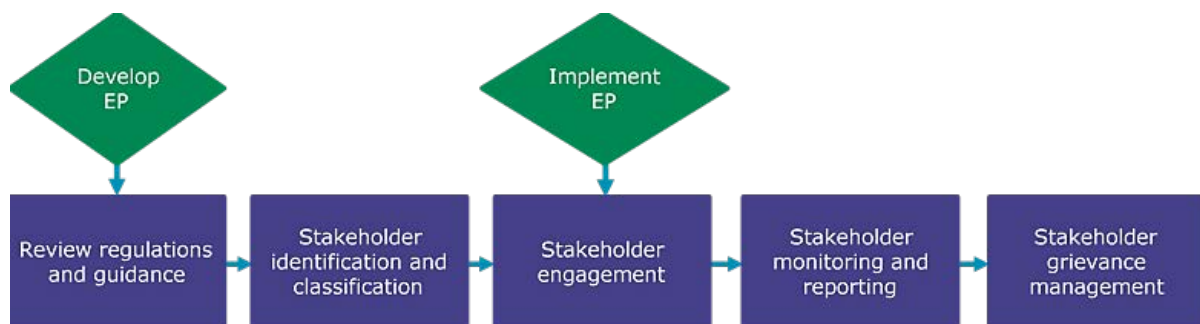


Figure 1: Process for stakeholder engagement (consultation) for development and implementation of an EP

### 1.1 Regulatory requirements and guidelines

As a first step in EP development, INPEX reviewed the following documents to prepare for stakeholder consultation on the proposed activity:

- Offshore Petroleum Greenhouse Gas Storage (Environment) Regulations
- NOPSEMA policies, guidance and information papers related to environment plan development, including:
  - PL1347 – Environment plan assessment policy – 19 May 2020
  - GL1721 - Environment plan decision making – 10 June 2021
  - GL1887 – Consultation with Commonwealth agencies with responsibilities in the marine area – 3 July 2020
  - GN1344 - Environment plan content requirements - 11 September 2020
  - GN1488 - Oil pollution risk management - 7 July 2021
  - GN1785 – Petroleum activities and Australian marine parks - 3 June 2020

- GN1847 – Responding to public comment on environment plans – 11 September 2020
- Guidance issued by relevant stakeholders (as known or provided to INPEX), including:
  - Australian Government Guidance: Offshore Petroleum and Greenhouse Gas Activities: Consultation with Australian Government agencies with responsibilities in the Commonwealth Marine Area
  - Australian Fisheries Management Authority (AFMA): Petroleum industry consultation with the commercial fishing industry
  - WA DPIRD: Guidance statement for oil and gas industry consultation with the Department of Fisheries
  - WA Department of Transport (WA DoT): Offshore Petroleum Industry Guidance Note – Marine Oil Pollution: Response and Consultation Arrangements
- INPEX stakeholder engagement procedures and guidelines.

INPEX acknowledges its responsibility under the various legislative instruments and other guidance to ensure that relevant persons are appropriately identified and consulted in the development of its EPs and in the conduct of its offshore activities.

## 1.2 Stakeholder identification and classification

With an understanding of the general requirements and expectations for consultation, INPEX conducted stakeholder identification and classification activities.

As an initial exercise, 'relevant persons' were identified, then classified, to determine a suitable engagement priority and method. Key INPEX personnel undertook discussions to outline the requirement for engagement, established the context of the proposed activities, and identified relevant persons in accordance with Regulation 11A(1) of the OPPGS (E) Regulations.

INPEX treats stakeholder identification (and subsequent activities) as an iterative process whereby INPEX may become aware of relevant persons both during the process of consultation and also after the development and submission of an EP. INPEX acknowledges that relevant persons may be identified during an EP assessment period and also during the proposed activity.

### 1.2.1 Definition of 'relevant persons'/relevant stakeholders

In identifying relevant persons to be consulted on the proposed activity, INPEX prescribes to the definition provided under Subregulation 11A(1) of the OPGGS (E) Regulations, being:

- a. *each Department or agency of the Commonwealth to which the activities to be carried out under the environment plan, or the revision of the environment plan, may be relevant*
- b. *each Department or agency of a State or the Northern Territory to which the activities to be carried out under the environment plan, or the revision of the environment plan, may be relevant*
- c. *the Department of the responsible State Minister, or the responsible Northern Territory Minister*
- d. *a person or organisation whose functions, interests or activities may be affected by the activities to be carried out under the environment plan, or the revision of the environment plan*
- e. *any other person or organisation that the titleholder considers relevant.*

### 1.2.2 Relevant activity

In determining who is a relevant stakeholder, it was necessary for INPEX to determine what constitutes a relevant activity, and for which activities a stakeholder should be engaged.

#### Petroleum activity (planned activity)

The OPGGS (E) Regulations require that consultation be undertaken to ensure that persons who may be affected by a petroleum activity are given the opportunity to inform the titleholder how they may be affected and to allow the titleholder to assess and address any objections or claims about that activity in the preparation of environment submissions.

Regulation 4 of the OPGGS (E) Regulations defines a petroleum activity as *“any operations or works in an offshore area carried out for the purpose of:*

- a. exercising a right conferred on a petroleum titleholder under the Act by a petroleum title; or*
- b. discharging an obligation imposed on a petroleum titleholder by the Act or a legislative instrument under the Act.”*

When identifying relevant persons, INPEX considers which stakeholders perform a function in the relation to – or have a function, activity or interest that may be impacted by – the planned activity.

The planned activity for this EP is exploration drilling to be undertaken in Commonwealth waters. Therefore, in determining who is a relevant person for engagement, INPEX sought to identify and engage with stakeholders whose functions, interests or activities could be affected by the exploration drilling activities described in Section 3 of this EP.

#### Unplanned event/activity (emergency conditions)

INPEX undertakes a more targeted approach to consultation with stakeholders in relation to unplanned and highly improbable emergency conditions, e.g. a loss of containment of hydrocarbons during the exploration drilling activity.

Stakeholders who may perform a function in INPEX’s planning for, or management of an unplanned activity, and whose information is integral to the development of those management plans, are engaged during the development of this EP and the INPEX ***Browse Regional OPEP***.

Stakeholders whose functions, interests or activities otherwise overlap the PEZ for the unplanned activity are not engaged during the development of those plans but may be engaged in the event of an unplanned emergency condition.

This approach has been adopted to reduce consultation fatigue for stakeholders who will not be impacted by the planned activity.

INPEX will engage contrary to this approach where a stakeholder has expressed a significant (high to very high) level of concern about loss of containment events and wishes to understand more about the potential impact and planned response activities.

INPEX maintains an extended stakeholder list which includes stakeholders who may have a function, activity or interest that falls within for the PEZ, but for the purpose of the development of these plans, engages with stakeholders as outlined in Table 1.

Table 1: Classification and method of engagement with stakeholders in relation to an unplanned oil spill event and oil spill response

Stakeholder category	Method of engagement	Stakeholders
Government departments, agencies or organisations with functions or roles directly relevant to emergency and oil spill preparedness and response	Involve / consult regarding the proposed activity and potential unplanned emergency conditions during the preparation of the EP and INPEX <i>Browse Regional OPEP</i> .	Australian Maritime Safety Authority (AMSA) WA Department of Transport (DoT) WA Department of Primary Industries and Regional Development (WA DPIRD) WA Department of Biodiversity, Conservation and Attractions (DBCA) NT Department of Infrastructure, Planning and Logistics (NT DIPL) Australian Marine Oil Spill Centre (AMOSOC)
Stakeholders where land access is required to be agreed prior to the activity commencing.	Involve / consult regarding the proposed activity and potential unplanned emergency conditions during the preparation of the EP and INPEX <i>Browse Regional OPEP</i> .	Landowners Native title holders Aboriginal and Torres Strait Islander communities
Stakeholders whose level of interest (or expectation) in relation to a potential oil spills and oil spill response for the planned activity is high or very high.	Inform regarding the proposed activity and potential unplanned emergency conditions during the preparation of the EP and INPEX <i>Browse Regional OPEP</i> .	As determined during stakeholder identification process.
Stakeholders whose level of interest (or expectation) in relation to a potential oil spills and oil spill response for the planned activity is low or medium.	To be informed only in the event of an unplanned emergency condition (i.e. oil spill) that has the potential to affect their functions, activities or interests.	As determined during stakeholder identification process.

### 1.2.3 Commercial fishery stakeholder identification and classification

In addition to the process outlined above for planned activities and unplanned events, identification of relevant commercial fishing stakeholders distinguishes between:

- fisheries that overlap the planned activity; and
- fisheries that overlap the PEZ but not the location of the planned activity.

INPEX used a variety of resources (e.g. data files and fishery reports) to identify and classify stakeholders according to these criteria.

With the view to minimise stakeholder fatigue, INPEX restricted engagement activities to licence holders in fisheries that overlap the area (location) of the planned activity. INPEX also considered if and where licence holders are active (or potentially active) within a fishery to assess whether that licence holder should be engaged.

In summary, identification of and engagement with commercial fishing stakeholders was conducted as follows:

- Government authorities (AFMA, DAWE, WA DPIRD and NT Department of Industry, Trade and Tourism (DITT)) were engaged regarding the proposed activity and engagement with commercial fishing stakeholders. Materials made available by government authorities, e.g. WA FishCube (fishing effort) data files and fishing reports, were used in fisheries determinations.
- Fishing industry associations that represent fisheries with licence areas that overlap the proposed activity (e.g. WA Fishing Industry Council (WAFIC), Commonwealth Fisheries Association, etc.) were consulted regarding the proposed activity and engagement with their members.
- Licence holders in commercial fisheries were engaged/not engaged according to the following criteria:
  - Active or potentially active licence holders in commercial fisheries whose activities overlap or are very close to the proposed activity were considered to be relevant stakeholders, and were accordingly engaged during the development of the EP.
  - Licence holders in commercial fisheries that overlap or are close to the planned activity, but whose activities or interests are not expected to be affected by the proposed activity are not considered to be relevant stakeholders. Such licence holders were not engaged during the development of the EP, but the industry associations representing these fisheries were informed. An example would be where the licence holder fishes in a distant part of that fishery, e.g. off the southern coast of Australia.
  - Licence holders in commercial fisheries that overlap the broader PEZ but not the area of the proposed activity are not considered affected parties/relevant stakeholders and were therefore not informed during the development of the EP.

Licence holders that are not considered to be relevant to the planned activity are included in the expanded list of stakeholders who would be informed in the event of an unplanned emergency condition.

Table 2 presents the commercial fisheries classified according to their relevance to the planned activity or an unplanned emergency condition. The Northern Demersal Scalefish Fishery (WA) and the North West Slope Trawl Fishery (Cwth) fish close to the planned activity areas in WA-285-P and WA-343-P and so licence holders of these two fisheries were determined to be relevant stakeholders. No other commercial fisheries fish in or close to the location of the planned activity.

Table 2: Classification of commercial fishery licence holders

Fishery	Relevance and process of engagement
Commercial fisheries overlapping or close to the planned activity area and with licence holder activities or interests that may be affected by the planned activity.	
Northern Demersal Scalefish Fishery – Area 2 (WA)	Relevant.
North West Slope Trawl Fishery (Cwth)	Licence holders directly consulted.
Commercial fisheries overlapping the planned activity area, but licence holder activities or interests are not expected to be affected by the planned activity.	
Mackerel Managed Fishery – Area 1 (WA)	Not affected.



APPENDIX B.1 2022 STAKEHOLDER CONSULTATION METHODOLOGY  
Exploration drilling WA-285-P & WA-343-P Environment Plan

Fishery	Relevance and process of engagement	
North Coast Shark Fishery (Northern Zone) (WA)	Licence holders not consulted during the development of the EP; however, representative industry associations were informed, and each fishery's interests considered in the development of the EP.	
Pearl Oyster Managed Fishery - Zone 3 (WA)		
Western Tuna and Billfish Fishery (Cwlth)		
Southern Bluefin Tuna Fishery (Cwlth)		
Western Skipjack Tuna Fishery (Cwlth)		
West Coast Deep Sea Crustacean Managed Fishery (WA)		
Commercial fisheries overlapping the PEZ but not the planned activity area.		
Northern Prawn Fishery (Cwlth)	Not affected.	
Broome Prawn Managed Fishery (WA)		
Kimberley Prawn Managed Fishery (WA)		
Nickol Bay Prawn Managed Fishery (WA)		
Pilbara Trap Managed Fishery (WA)		
Pilbara Fish Trawl Interim Managed Fishery (WA)		
Pilbara Line Fishery (WA)		
Pilbara Crab Managed Fishery (WA)		
Specimen Shell Managed Fishery (WA)		
Abalone Managed Fishery – Area 8 (WA)		Licence holders not consulted during the development of the EP, but each fishery's interests considered in the development of the EP.
Hermit Crab Fishery (WA)		
Kimberley Crab Managed Fishery (WA)		Licence holders to be informed in the event of an unplanned emergency condition.
Kimberley Gillnet and Barramundi Fishery (WA)		
Mackerel Managed Fishery – Area 2 (WA)		
Marine Aquarium Fish Managed Fishery (WA)		
Northern Demersal Scalefish Managed Fishery – Area 1 (WA)		
Onslow Prawn Managed Fishery (WA)		
Pearl Oyster Managed Fishery – Zones 1 and 2 (WA)		
Trochus Fishery (WA)		
Joint Authority Northern Shark Fishery (Cwlth/WA)		
South West Coast Salmon Managed Fishery (WA)		

APPENDIX B.1 2022 STAKEHOLDER CONSULTATION METHODOLOGY  
Exploration drilling WA-285-P & WA-343-P Environment Plan

Fishery	Relevance and process of engagement
Timor Reef Fishery (NT)	
Demersal (multigear) Fishery (NT)	
Barramundi Fishery (NT)	
Bait Net Fishery (NT)	
Coastal Net Fishery (NT)	
Coastal Line Fishery (NT)	
Trepang Fishery (NT)	
Aquaculture (NT)	
Aquarium Fishery (NT)	
Mollusc Fishery (NT)	
Mud Crab Fishery (NT)	
Offshore Net and Line Fishery (NT)	
Pearl Oyster Fishery (NT)	
Spanish Mackerel Fishery (NT)	

1.2.4 Stakeholder classification

Stakeholders were then classified based on their level of interest in/potential impact by, and influence over, the proposed activity. The purpose of this activity was to determine a 'priority' for consultation that was appropriate to the classification. Priority levels are shown in Table 3.

Table 3: Engagement classification

Priority	Interest/potential impact level and/or Influence level	Stakeholder classification (engagement priority)
Level 1	(Both) High to very high	Collaborate/empower: partner with stakeholder on each aspect of the decision; allow stakeholder (regulatory or approvals bodies) to make the final decision
Level 2	(Either) High to very high	Consult/involve: ensure stakeholder concerns and expectations are consistently understood and considered, and obtain feedback from stakeholders on analysis, alternatives and/or decisions
Level 3	(Both) Low to medium	Inform: provide balanced, objective, timely and consistent information to stakeholder

Stakeholders who are relevant only in the event of unplanned emergency conditions were classified separately based on their role or function in relation to unplanned emergency conditions or based on their level of interest and influence such unplanned emergency conditions.

### 1.3 Stakeholder engagement

Following the stakeholder identification and classification exercise, an engagement plan was developed to register identified stakeholders and the following information:

- the activity/ies (planned and unplanned) for which they have been identified as relevant
- the activities on which they should be engaged
- the function, activity or interest that may be affected by the relevant activity
- their assigned classification (priority for engagement)
- the proposed manner of engagement (i.e. modes, timing, and by whom).

Those INPEX personnel responsible for engagement were provided with a copy of the plan and instructions on how to carry out the necessary engagement.

INPEX prepared a consultation information sheet to provide relevant stakeholders with important details of the proposed activity. The information sheet included the following information:

- description of the activity, including location and map
- schedule
- methodology (i.e. how the activity will be undertaken, as well as general logistics and safety information)
- environmental management approach
- enquiries and feedback information.

The accompanying email (or cover letter) may provide more information relevant to the functions, activities or interests of the stakeholder receiving the information sheet. Additional information was also sent to stakeholders in subsequent communications, as requested by the stakeholder and/or as the information became available.

### 1.4 Stakeholder monitoring and reporting

Using the stakeholder engagement plan as a guide, INPEX retains a record of all communications sent and received as part of the stakeholder engagement activity. This includes email correspondence, telephone call logs, letters and minutes of meetings.

All queries and feedback from stakeholders were logged, and where applicable, forwarded for follow up. All responses provided to stakeholders were appropriate to the nature of their communication, e.g. technical queries were investigated by area experts and responses provided.

#### 1.4.1 Relevant matters, objections and claims

During stakeholder consultation, each meeting, phone call or piece of correspondence received from a stakeholder was assessed by INPEX for relevant information or for objections, claims or concerns raised regarding the activity. The INPEX assessment of relevance and assessment of merit considered four broad categories:

- objection, claim or concern has merit – the objection, claim or concern raised is relevant to both the planned activity and the stakeholder’s functions, activities or interests. The matter has merit if there is a reasonable / scientific basis for related effects or impacts to occur and/or there is reasonable basis for the matter to be addressed in the EP.
- objection, claim, or concern does not have merit – the objection, claim or concern raised may be relevant to the planned activity or the stakeholder’s functions, activities or interests, however, the matter raised has no credible or scientific basis.
- relevant matter – the matter raised does not fit the criteria descriptions for objections, claims or concerns with/without merit. However, the matter raised is relevant to the planned activity, comprises a request to INPEX for further relevant information, or provides information to INPEX that is relevant to the activity or the EP.
- not a relevant matter – Correspondence does not relate to the planned activity or the stakeholder’s functions; interests or activities being affected by the activity. Non-relevant matters may also be generic in nature with no specific issues raised (e.g. salutations, acknowledgements, meeting arrangements, etc.).

A summary of all stakeholder consultation undertaken, and the full assessment of relevance and merit are provided in Appendix B.3 (Consultation log). The actual records of correspondence are provided in a ‘Sensitive Matters Report’ that is submitted to NOPSEMA separately to this EP.

#### 1.5 Stakeholder grievance management

A grievance is a complex stakeholder objection or claim (‘relevant matter’) which has progressed beyond management through the Stakeholder Monitoring and Reporting process.

In line with grievance management as described in the INPEX Community Grievance Management Procedure, a relevant matter that cannot be resolved with the concerned stakeholder (grievant) by the applicable contact person (supported by area experts where required) will be referred to the INPEX Community Relations Working Group (CRWG) for advice and resolution before a response is made to the grievant.

If the resolution proposed by the INPEX CRWG is unacceptable to the grievant, a third-party mediator may become involved to facilitate a resolution between the parties.

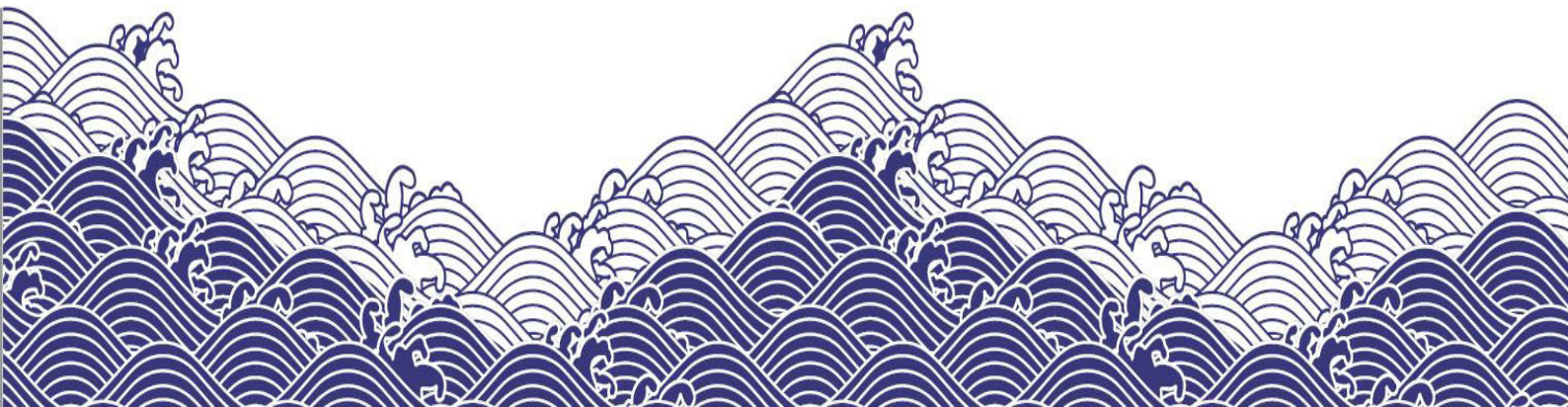
In relation to engagement activities for this EP, all stakeholder enquiries were either dealt with as outlined above or are ongoing due to the iterative process of engagement being applied.

#### 1.6 Ongoing consultation

Ongoing consultation activities ensure that INPEX develops and maintains a current and comprehensive view of stakeholder functions, interests and activities, and provide a forum for enquiries, objections or claims by relevant persons in the lead up to and during the conduct of a planned activity.

Ongoing consultation for the proposed activity is outlined in the implementation strategy of the EP (Section 9.8.3).

# Appendix B.2 - Relevant Persons Consultation: 2023 Methodology



RECORD OF AMENDMENT

Revision	Section	Amendment
2	Section 1.1.1	Updated to reflect Department of Foreign Affairs and Trade correspondence.
	Section 3.2.1	Updated in accordance with NOPSEMA request for further information.
3	Section 1.1.1	Updated in accordance with NOPSEMA request for further information.
	Section 2	Updated to include guiding principles of offshore EP consultation
	Section 3.2.2	Updated to describe unascertainable relevant persons

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Abbreviation/Acronym/Terms	Meaning
Appeal Decision	<i>Santos NA Barossa Pty Ltd v Tipakalippa [2022] FCAFC 193</i>
DCCEEW	Department of Climate Change, Energy, the Environment and Water
EP	environment plan
GIS	geographic information system
NOPSEMA	National Offshore Petroleum Safety and Environmental Management Authority
NT	Northern Territory
OPGGS Act	<i>Offshore Petroleum and Greenhouse Gas Storage Act 2006</i>
OPGGS (E) Regulations	Offshore Petroleum and Greenhouse Gas Storage (Environment) Regulations 2009
PEZ	potential exposure zone
SME	subject matter expert
this document	INPEX Australia Relevant Persons Determination and Consultation Methodology for Offshore Environment Plans (0000-AH-MST-70000)
WA	Western Australia

# 1 INTRODUCTION

## 1.1 Background

The National Offshore Petroleum Safety and Environmental Management Authority (NOPSEMA) is responsible for regulating environmental management arrangements for offshore petroleum and greenhouse gas activities in Commonwealth waters. The primary legislation regulating these activities is the *Offshore Petroleum and Greenhouse Gas Storage Act 2006* (OPGGs Act) and associated regulations.

Petroleum and greenhouse gas activities undertaken in Commonwealth waters do not require individual referral, assessment or approval under the *Environment Protection and Biodiversity Conservation Act 1999* provided they are undertaken in accordance with the Offshore Petroleum and Greenhouse Gas Storage (Environment) Regulations 2009 (OPGGs (E) Regulations). This requires such activities to be managed in accordance with an environment plan (EP) accepted by NOPSEMA.

When developing or revising an EP in accordance with the OPGGS (E) Regulations, titleholders must consult with relevant persons as described further in Section 1.1.1.

INPEX recognises that through consultation it will have an opportunity to receive information that it might not otherwise have received from others who may be affected by a proposed activity. The INPEX Australia Relevant Persons Determination and Consultation Methodology for Offshore Environment Plans (this document) details INPEX's approach to the identification of, and consultation with, relevant persons as required under the OPGGS (E) Regulations.

### 1.1.1 Regulatory requirements

The OPGGS Act and associated regulations provides the legal framework for the exploration and recovery of petroleum and greenhouse gas activities in Commonwealth waters (those areas that are more than three nautical miles from the territorial sea baseline).

The OPGGS (E) Regulations require that a petroleum or greenhouse gas activity is undertaken in an ecologically sustainable manner, and in accordance with an accepted EP.

OPGGS (E) Regulation 11A requires a titleholder to undertake consultation with relevant authorities, persons and organisations, etc. in the course of preparing a new or a revision to an EP. Specifically OPGGS (E) Regulation 11A requires:

1. *In the course of preparing an environment plan, or a revision of an environment plan, a titleholder must consult each of the following (a relevant person):*
  - a. *each Department or agency of the Commonwealth to which the activities to be carried out under the EP, or the revision of the EP, may be relevant*
  - b. *each Department or agency of a State or the Northern Territory to which the activities to be carried out under the EP, or the revision of the EP, may be relevant*
  - c. *the Department of the responsible State Minister, or the responsible Northern Territory Minister*
  - d. *a person or organisation whose functions, interests or activities may be affected by the activities to be carried out under the EP, or the revision of the EP*
  - e. *any other person or organisation that the titleholder considers relevant.*

2. *For the purpose of the consultation, the titleholder must give each relevant person sufficient information to allow the relevant person to make an informed assessment of the possible consequences of the activity on the functions, interests or activities of the relevant person.*
3. *The titleholder must allow a relevant person a reasonable period for the consultation.*
4. *The titleholder must tell each relevant person the titleholder consults that:*
  - a. *the relevant person may request that particular information the relevant person provides in the consultation not be published; and*
  - b. *information subject to such a request is not to be published under this Part.*

## 1.2 Purpose

The purpose of this document is to provide a detailed methodology for determining and consulting with relevant persons, which is to be followed when developing a new EP or a revision to an EP for an offshore activity post-October 2022. It covers the:

- process for identifying relevant persons applicable to an offshore activity that requires a new EP or a revision to an EP under the OPGGS (E) Regulations
- preparation of appropriate consultation materials and forms of consultation for each relevant person identified
- process of consultation including assessment of information and feedback received
- information required to be presented in the EP submission to demonstrate to NOPSEMA that appropriate consultation has been undertaken in accordance with the OPGGS (E) Regulations including any additional information incorporated into the EP as a result of consultation.

## 1.3 Objective

To have a robust approach to undertaking the identification of, and consultation with relevant persons for offshore activities that require an EP under the OPGGS (E) Regulations.

## 2 GUIDING PRINCIPLES OF OFFSHORE EP CONSULTATION

Guiding principles adopted key by INPEX for offshore EP consultation, are described in Table 2-1.

Table 2-1: Guiding principles and key concepts of INPEX offshore EP consultation

Guiding principle	Key concept
<p>Consultation provides an opportunity for free and open exchange of information to occur between a titleholder and relevant person that may be affected by a proposed activity</p>	<ul style="list-style-type: none"> <li>• The process provides a genuine opportunity for relevant persons to be heard and provide feedback.</li> <li>• The process includes mechanisms for titleholders to receive information from relevant persons that they might not have otherwise received.</li> <li>• The process enables a titleholder to gain better understanding about the environment that may be affected and measures that may be necessary to mitigate the potential environmental impacts and risks associated with the petroleum activity.<sup>1</sup>.</li> <li>• Consultation does not carry with it any obligation on the titleholder either to seek or reach agreement; nor requires consent on the activity subject to the consultation; however, the titleholder should be receptive to suggestions from a relevant person, where these may improve the overall environmental outcome.<sup>2</sup>.</li> </ul>
<p>The consultation process must be capable of practicable and reasonable discharge</p>	<ul style="list-style-type: none"> <li>• The obligation to consult is a real world obligation that must be construed in a practical and pragmatic way that makes a process both reasonable and workable.<sup>3</sup>.</li> <li>• Where communal interests are held, the process of consultation needs to reasonably reflect the characteristics of the communal interests affected, and does not necessarily require communications with each and every person who is a member of the relevant community.<sup>4</sup>.</li> <li>• The obligation to identify relevant persons for the purpose of consultation must be reasonably capable of discharged (i.e. relevant persons need to be ascertainable) within a reasonable time.<sup>5</sup>.</li> </ul>

<sup>1</sup> Santos NA Barossa Pty Ltd v Tipakalippa [2022] FCAFC 193 (Appeal Decision), paragraphs [49], [54], [57], [89] and [141].

<sup>2</sup> NOPSEMA. 2023. *Consultation on Offshore Environment Plans – Information for the Community*, May 2023.

<sup>3</sup> Appeal Decision, paragraphs at [89], [109], [136], [138] and [141].

<sup>4</sup> Appeal Decision paragraphs [48], [89], [104], [108], [109], [141] and [153].

<sup>5</sup> Appeal Decision paragraphs [136], [141] and [153].

Guiding principle	Key concept
<p>Consultation involves provision of sufficient information on a proposed activity to relevant persons and allows for a reasonable period of time a relevant person to consider the information</p>	<ul style="list-style-type: none"> <li>Information provided to a relevant person should be sufficient to allow them to make an informed assessment of consequence of the proposed activity on their functions, interests or activities<sup>6</sup>.</li> <li>The nature, scale, and complexity of a proposed activity, as well as the extent of potential impacts and risks on a relevant person's functions, interests, or activities, is considered when determining a reasonable period for consultation<sup>7</sup>.</li> </ul>
<p>Relevant person participation in the consultation process is voluntary</p>	<ul style="list-style-type: none"> <li>Relevant persons are not obligated to respond to a titleholder's request to participate in the consultation process<sup>2</sup>.</li> <li>A titleholder is not required to wait indefinitely for a response where sufficient information and reasonable period of time has been afforded to the relevant person<sup>7</sup>.</li> </ul>

<sup>6</sup> As relevant to the categories of persons defined in the 11A(1) (OPGGS (E) Regulations.

<sup>7</sup> Explanatory Statement, Offshore Petroleum and Greenhouse Gas Storage (Environment) Regulation 2023, 10 July 2023, Page 30

## 2.1 Definitions

As described in Section 1.2 and 1.3, INPEX has developed this document to ensure a consistent approach to identifying and consulting with relevant persons in relation to offshore EPs. The definitions included in Table 2-2 have been used as the basis for this methodology.

Table 2-2: List of definitions

Term	Definition
Activities	In relation to subregulation 11A(1)d, activities are considered to be what other persons or organisations are already doing.
Claims	Evidence provided that suggests that there are potential adverse impacts from the petroleum or greenhouse gas activities to which the EP relates.
Consultation Period	INPEX generally defines the Consultation Period during the development of an EP as being 30 business days (six weeks), subject to the nature and scale of the proposed activity. Where dialogue with relevant persons is ongoing after this period, INPEX will continue to consult with these persons until INPEX believes that it has provided sufficient evidence/justification to close the consultation.
Enquiry Boundary	Generated by overlaying all of INPEX PEZs for offshore oil spill scenarios related to current active INPEX EPs. The geographical area within the Enquiry Boundary is used as the basis for identifying those to be included in INPEX's register of persons, organisations, departments and agencies.
Environment	OPGGS (E) Regulations defines this as: (a) ecosystems and their constituent parts, including people and communities; and (b) natural and physical resources; and (c) the qualities and characteristics of locations, places and areas; and (d) the heritage value of places; and includes (e) the social, economic and cultural features of the matters mentioned in paragraphs (a), (b), (c) and (d).
EP Draft Register	A register of potentially relevant persons that may require consultation, developed for each activity specific EP and pre-populated ahead of the relevant person identification workshop.
Functions	In relation to subregulation 11A(1)d, functions refer to a power or duty to do something.

Term	Definition
Interests	In relation to subregulation 11A(1)d, interests represent a connection to the values described in the EP. Any interest possessed by an individual, whether or not the interest amounts to a legal right or is a proprietary or financial interest or relates to reputation. However, an interest does not extend to general public interest in an activity <sup>2,8</sup> .
Objection	A reason or argument that asserts that there are potential adverse impacts arising from the petroleum or greenhouse gas activities to which the EP relates.
Petroleum/Greenhouse Gas Activity	A planned offshore petroleum or greenhouse gas storage activity for which an EP is required. This also includes activities undertaken in the event of an emergency condition such as oil spill response.
Potential exposure zone (PEZ)	This is the environment that may be affected as outlined in the OPGGS (E) Regulations. The spatial extent of the PEZ is determined from stochastic spill modelling using the low hydrocarbon exposure thresholds (no ecological impact) as recommended by NOPSEMA <sup>9</sup> . Note, the PEZ does not define the area of affect to a relevant person's functions, interest or activities, but instead it is used as an initial input to develop a broad list of possible relevant persons that may be affected in a geographical area for the activity. Each relevant person is then further assessed in direct context of the effect the activity may have on their own specific functions, interests and activities.
Reasonable period	A reasonable time for relevant persons to identify the effect of a proposed activity on their functions, interests or activities and make a response detailing their objections or claims. INPEX generally defines a reasonable period for a relevant person to review and provide an initial response (i.e. the Consultation Period) as being 30 business days (six weeks), subject to the nature and scale of the proposed activity. Where dialogue with relevant persons is ongoing after this period, INPEX will continue to consult with these persons until INPEX believes that it has provided sufficient evidence/justification to close the consultation (i.e. they have been provided sufficient information and reasonable time).
Reasonable attempt	During the Consultation Period, INPEX will make all reasonable attempts to make contact with all identified relevant persons for the EP (where a reasonable and workable avenue exists). Recognising that specific consultation methods of engagement and ways to pass on information may be more appropriate for certain groups of relevant persons.

<sup>8</sup> Appeal Decision, paragraphs at [151] and [154].

<sup>9</sup> NOPSEMA Environmental bulletin: Oil Spill Modelling (April 2019), accessed at <<https://www.nopsema.gov.au/sites/default/files/documents/2021-04/A652993.pdf>> on 25 November 2022



Term	Definition
Relevant matter	A matter raised that has been assessed as being relevant to the petroleum/greenhouse gas activity (refer to Section 3.4.2), comprises a request to INPEX for further relevant information, or provides information to INPEX that is relevant to the activity or the EP.
Relevant person	Can be a person, organisation, department or agency that falls within one of the categories defined by subregulation 11A(1) of the OPGGS (E) Regulations ; however, it does not include those whose functions, interests or activities will only be affected by an activity in an immaterial or negligible way. <sup>10</sup> .
Subject matter experts (SMEs)	Specialists from within INPEX such as activity owners (e.g. drilling engineers, subsurface team members), Aboriginal Affairs, Government Affairs, Environment team members and other technical experts relative to an activity.
Values	<p>Values within an EP are broadly defined as:</p> <ul style="list-style-type: none"> <li>• Natural values—habitats, species and ecological communities within the PEZ.</li> <li>• Cultural values—living and cultural heritage recognising Indigenous beliefs, practices and obligations for country, places of cultural significance and cultural heritage sites within the PEZ.</li> <li>• Heritage values—non-Indigenous heritage within the PEZ that has aesthetic, historic, scientific or social significance.</li> <li>• Socio-economic values— people, communities and/or businesses that operate within the PEZ.</li> </ul>

<sup>10</sup> Appeal Decision paragraph [67] and noting, OPGGS (Environment) Regulations 3(c) provide that the petroleum activity is carried out in a manner by which the environmental impacts and risks of the activity will be of an acceptable level.

### 3 IDENTIFICATION OF RELEVANT PERSONS AND CONSULTATION METHODOLOGY

When an EP is required, the process outlined in the following section will be followed. This section describes INPEX's process to identify relevant persons and develop forms of consultation in relation to each EP. An overview of the approach to relevant person determination and consultation is shown in Figure 3-1.

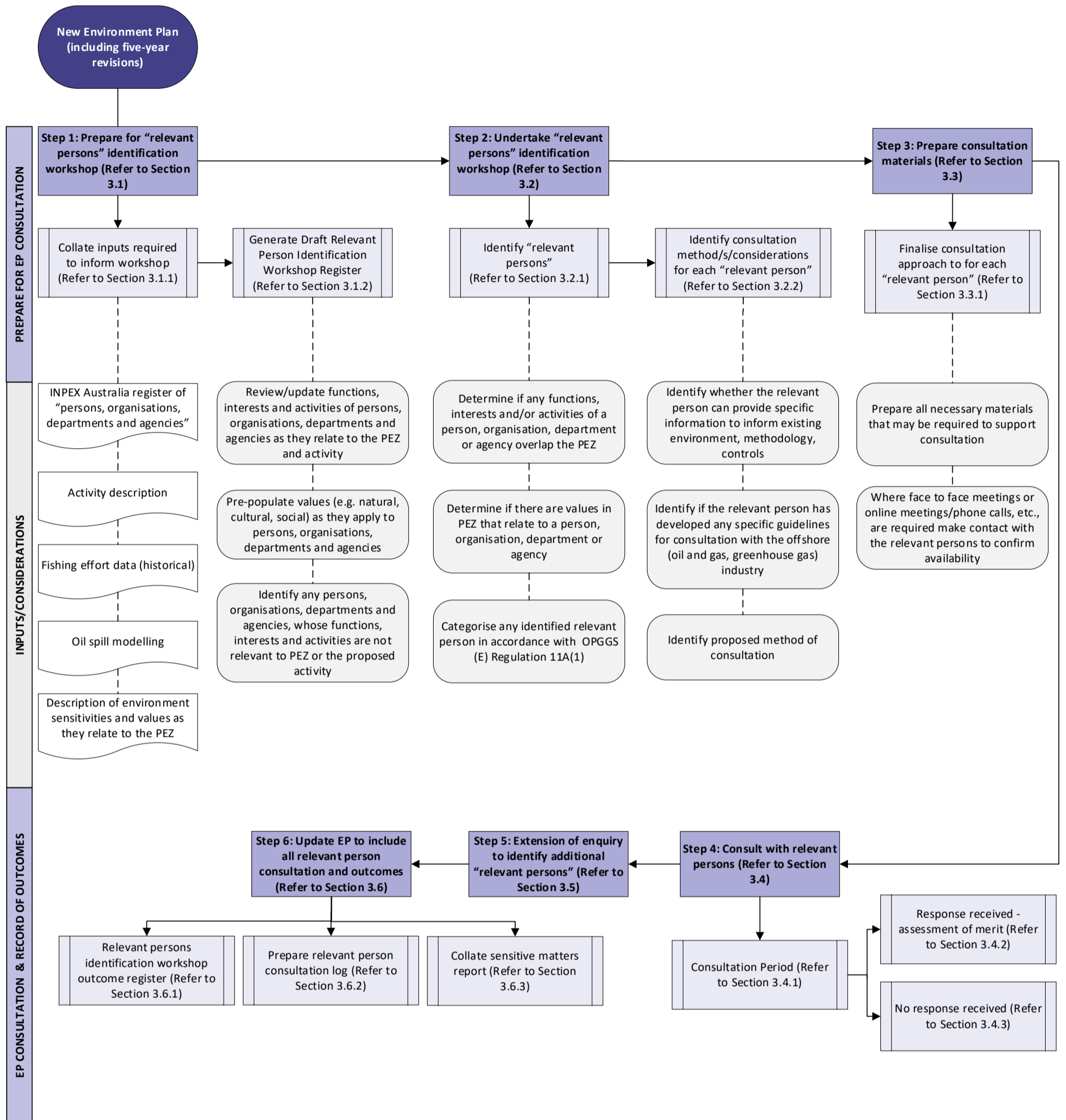


Figure 3-1: Overall approach to relevant person determination and consultation

### 3.1 Step 1 – Prepare for relevant persons identification workshop

Prior to undertaking a workshop to identify relevant persons for the purpose of EP consultation, a number of inputs are required. Preparation of these inputs, described in Section 3.1.1, may take several weeks to collate and this time should be allowed for when preparing for the workshop. Once the input data has been compiled it will be used as the basis for pre-population of the draft register of relevant persons for an EP (refer Section 3.1.2) prior to the relevant persons identification workshop (refer Section 3.2).

#### 3.1.1 Workshop inputs

##### INPEX register of persons, organisations, departments and agencies

The Enquiry Boundary for identifying persons, organisations, departments and agencies was defined by overlaying all PEZ's for offshore oil spill scenarios related to current active INPEX EPs. The extent of this is shown in Figure 3-2.

INPEX maintains a comprehensive register that includes persons, organisations, departments and agencies that have the potential to fall within; or have jurisdiction over matters within the Enquiry Boundary.

This extensive register was developed for INPEX by an external consultant that specialises in consultation and community relations. The register includes existing INPEX contacts that have been consulted with during the development and operation of the Ichthys Project (since 2008). Other persons have been identified and included in the register based on previous relationships with INPEX and/or proximity with a PEZ for offshore oil spills.

Categories in the register include Government departments, agencies and ministers, local government authorities, Aboriginal and Torres Strait Islander community members, commercial fishing licence holders, businesses, environmental organisations (non-government) and other offshore (oil and gas or greenhouse gas) titleholders. Various data sources were used to identify the persons, organisation, departments or agencies within the Enquiry Boundary, these are presented in Table 3-1 for each category.

The register includes contact details and a general description for each entity. Where possible, the register includes alternative contact details/mechanisms.

The register is maintained by INPEX Corporate Affairs function with input from environmental specialists and other technical subject matter experts (SMEs). The register is reviewed on a regular basis to ensure it remains current and accurate, as outlined in Section 5.2.1. The review considers name changes (e.g. government agencies, government ministers, changes in key personnel), new persons and organisations that have been identified as potentially relevant since the previous review of the register.

The content of the register is used to generate a new draft register of potentially relevant persons that may require consultation as part of the development of a specific EP (EP Draft Register). The EP Draft Register is reviewed and populated during relevant person identification workshops that are held for all new EPs, as detailed in Section 3.1.2.



The information contained on this map is confidential and for information only, and must not be communicated to other persons without the prior written consent of INPEX. Any unauthorised use of such information may expose the user and the provider of that information to legal risk. While every effort has been made to ensure the accuracy and completeness of the information presented, no guarantee is given or responsibility taken by INPEX for any errors or omissions. INPEX accepts no liability for any use of the said information or reliance placed on it.

Figure 3-2: Enquiry Boundary

Table 3-1: Data sources used to identify persons, organisations, departments and/or agencies

Category	Data sources	Logic applied in relation to the enquiry boundary list
Government departments and agencies & ministers	<p>The following data sources were used to determine potentially relevant Government departments, agencies and ministers:</p> <ul style="list-style-type: none"> <li>• <a href="http://www.directory.gov.au/departments-and-agencies">http://www.directory.gov.au/departments-and-agencies</a></li> <li>• <a href="https://www.wa.gov.au/agency">https://www.wa.gov.au/agency</a></li> <li>• <a href="https://nt.gov.au/about-government/government-agencies">https://nt.gov.au/about-government/government-agencies</a></li> <li>• <a href="https://nt.gov.au/about-government/the-cabinet">https://nt.gov.au/about-government/the-cabinet</a></li> <li>• <a href="https://parliament.nt.gov.au/members">https://parliament.nt.gov.au/members</a></li> <li>• <a href="https://www.parliament.wa.gov.au/parliament/memblast.nsf/WAMembers">https://www.parliament.wa.gov.au/parliament/memblast.nsf/WAMembers</a></li> <li>• <a href="https://www.wa.gov.au/government/premier-and-cabinet-ministers">https://www.wa.gov.au/government/premier-and-cabinet-ministers</a></li> <li>• <a href="http://aph.gov.au">Current Ministry List – Parliament of Australia (aph.gov.au)</a>.</li> <li>• <a href="http://nopta.gov.au">Relevant Decision Makers (nopta.gov.au)</a></li> </ul>	<p>Departments and agencies, with jurisdiction and/or authority over/within the Enquiry Boundary are included, in addition to Ministers with relevant portfolios and Members of Parliament with relevant electorate boundaries.</p>
Local Government Authorities (LGAs)	<p>The following data sources were used to determine potentially relevant LGAs:</p> <ul style="list-style-type: none"> <li>• <a href="#">NT Councils   LGANT</a></li> <li>• <a href="#">WA Online Local Government Directory   WALGA   WALGA</a></li> <li>• <a href="#">Zones-Map-1_WA_Mar17.jpg.aspx (671x963) (walga.asn.au)</a>.</li> </ul>	<p>LGAs with coastal boundaries that overlap or are adjacent to the Enquiry Boundary are included.</p>
Aboriginal and Torres Strait Islander peoples, Traditional Owners and Site Custodians, Native Title Representative Bodies, Prescribed Body Corporates and other relevant Indigenous community organisations	<p>The following data sources were used to determine potentially relevant Indigenous peoples and community organisations:</p> <ul style="list-style-type: none"> <li>• Relevant data previously obtained by INPEX.</li> <li>• Input from internal and external technical SMEs.</li> <li>• National Native Title Tribunal Register of Native Title Claims and Determinations <a href="http://www.nntt.gov.au/Pages/Home-Page.aspx">http://www.nntt.gov.au/Pages/Home-Page.aspx</a>.</li> <li>• Prescribed Body Corporate website <a href="https://www.nativetitle.org.au">https://www.nativetitle.org.au</a>.</li> <li>• Aboriginal and Torres Strait Islander peoples ranger groups <a href="https://www.countryneedspeople.org.au/what_are_indigenous_rangers">https://www.countryneedspeople.org.au/what_are_indigenous_rangers</a></li> <li>• <a href="#">Values of marine parks   Australian Marine Parks (parksaustralia.gov.au)</a></li> </ul>	<p>Aboriginal and Torres Strait Islander peoples that have Native Title claims or determinations, and / or coastal boundaries including possible sea country that overlap or adjacent to the Enquiry Boundary are included. This may also include Aboriginal and Torres Strait Islander Ranger Groups within the Enquiry Boundary.</p>

Category	Data sources	Logic applied in relation to the enquiry boundary list
	<ul style="list-style-type: none"> <li>• <a href="#">Joint management in the Kimberley - Google My Maps</a></li> <li>• <a href="#">Joint management in the south-west Kimberley and Pilbara - Google My Maps</a></li> </ul>	
Commercial fishing (licence holders, fisheries, associations/councils) and recreational fishing associations	<p>The following data sources were used to determine potentially relevant commercial and recreational fishers and associated organisations:</p> <ul style="list-style-type: none"> <li>• Use of Fishery GIS layers to determine overlapping Commonwealth, State and Territory fishery management areas.</li> <li>• Request to Department of Primary Industries and Regional Development – Fisheries Branch for licence holder details.</li> <li>• Request to Department of Industry, Tourism and Trade - Fisheries Division for licence holder details.</li> <li>• Request to the Australian Fishery Management Authority (AFMA) for licence holder details.</li> <li>• AFMA list of fishing industry associations (<a href="#">Petroleum industry consultation with the commercial fishing industry   Australian Fisheries Management Authority (afma.gov.au)</a>).</li> <li>• Fisheries Research Development Commission list of commercial fisheries related organisations, industry councils, recreational fishing organisations (<a href="#">Useful links   FRDC</a>).</li> </ul>	Commercial fishery management areas and recreational fishing association boundaries that overlap the Enquiry Boundary are included.
Businesses	<p>The following data sources were used to determine potentially relevant Chambers of Commerce’s, fishing charters and tourism operators:</p> <ul style="list-style-type: none"> <li>• Operator data previously obtained by INPEX</li> <li>• Google Maps.</li> </ul>	Businesses within the Enquiry Boundary that rely on the ocean for business and tourism operators along coast that might be affected due to an environmental incident (e.g. coastal accommodation and tour providers etc.) are included.
Oil and gas or greenhouse gas titleholders	<p>The following data sources were used to determine potentially relevant oil and gas or greenhouse gas titleholders:</p> <ul style="list-style-type: none"> <li>• NOPTA title search and use of interactive map (<a href="https://public.neats.nopta.gov.au/Map">https://public.neats.nopta.gov.au/Map</a>).</li> </ul>	Active titleholders that overlap the Enquiry Boundary are included.

Category	Data sources	Logic applied in relation to the enquiry boundary list
	<ul style="list-style-type: none"><li>• Australian Securities &amp; Investments Commission (<a href="#">ASIC Home   ASIC</a>)</li></ul>	
Environmental organisations (non-government)	<p>The following data source was used to determine potentially relevant environmental organisations:</p> <ul style="list-style-type: none"><li>• Google search for those with an active interest in areas of WA and the NT.</li></ul>	Those with advocacy functions in relation to WA and NT marine and coastal environments.



## EP activity description

The environment team member responsible for the development of the EP will engage with the relevant INPEX department (e.g., drilling, subsurface, operations, etc.) to define the activity description applicable to the proposed activity. The activity description should include as much quantified information as practicable, including the scope and extent of the activity, timing, duration, and location. This should provide an understanding of the nature and scale of the activity with respect to emissions, discharges and wastes and how they may interact with the receiving environment.

The activity description is used to help provide context to the workshop attendees. It provides information on types of activities, duration and timing/schedule to help ascertain how the activity may potentially impact on those with functions, interest or activities in the PEZ.

## EP activity specific oil spill modelling

Oil spill modelling will be obtained for the proposed activity. This defines the outer extent of the PEZ which represents the environment that may be affected in an emergency condition oil spill scenario e.g. the furthest a spill could go based on stochastic modelling. The method of identifying the outer boundary of the PEZ is highly conservative as it is based on hundreds of modelled scenarios that are overlain to create the PEZ.

The PEZ boundary is used by workshop attendees to identify if persons, organisation, department or agencies have functions, interest or activities that overlap or are adjacent to the PEZ and therefore may be identified as relevant persons.

## Description of the existing environment

An "Existing Environment" reference document has been developed and is maintained by INPEX's Environment team that describes the environmental values within an area off northern Australia. The area has been defined by overlaid PEZs associated with INPEX offshore activities. This reference document is used to form the basis of the existing environment section for all new INPEX EPs.

The existing environment document is compiled using published scientific literature and publicly available scientific data, ensuring data is relevant and current. Information sources include, but are not limited to, the following:

- EPBC Act Protected Matters Search Tool (Department of Climate Change, Energy, the Environment and Water (DCCEEW))
- Relevant Marine Park Management Plans published by State, Territory and/or Commonwealth Departments
- Conservation Management Plans (recovery plans and advice) published by DCCEEW
- Searches of Commonwealth, State and Territory heritage registers (may include world heritage, national heritage, underwater cultural heritage databases) administered by the relevant Commonwealth, State and/or Territory Departments
- Searches of sacred sites registers administered by the relevant Commonwealth, State and/or Territory Departments
- Searches of Aboriginal land and Native Title registers administered by the relevant Commonwealth, State and/or Territory Departments including the National Native Title Tribunal Register of Claims and Determination GIS database.

- Published ecological survey monitoring data or scientific studies (including water and sediment quality)
- Craft Tracking System (Australian Maritime Safety Authority vessel tracking data).

The existing environment document contains GIS mapping that may be suitable for use in the identification of relevant persons workshop. Existing maps will be reviewed in relation to the proposed activity and associated oil spill modelling and updated as required.

The existing environment document is used by workshop attendees to identify potential environmental values applicable to those that have functions, interest or activities within the PEZ and therefore may be relevant persons.

#### Fishing effort data

Fishing effort data can be used in the workshop to assist with the identification of relevant commercial fisheries that may be active within the PEZ. Fisheries can be distinguished between those that:

- may overlap the area of the planned activity; and
- overlap the PEZ but not the area of the planned activity.

Historic fishing effort data gathered during the development and consultation for previous INPEX EPs may also be utilised when preparing for the relevant persons identification workshop.

Databases, fishery reports or publications developed/maintained by relevant Commonwealth/State/Territory departments, may be able to provide fishing effort, catch and seasonality data. Where data is not up to date, a request for current data may be required.

### 3.1.2 Pre-population of draft register of relevant persons for the EP

In preparation for the relevant persons identification workshop, a copy of the latest version of the INPEX register of all persons, organisations, departments and agencies is to be requested from Corporate Affairs by the environmental advisor responsible for the preparation of the EP.

The following steps will be undertaken when preparing a new draft register prior to the relevant person identification workshop:

1. Create draft Relevant Person Identification Workshop Register: Pre-populate relevant person identification workshop with latest INPEX register of persons, organisations, departments and agencies.
2. Review the functions, interests and activities of each person, organisation, department in context of the proposed activity and environment that may be affected (i.e. the PEZ) by the activity.
3. Pre-populate the draft register with any environmental values (natural, heritage, cultural or socio-economic) as they apply to a person, organisation, department or agency. Note, not all will necessarily have a value that applies.
4. Identify persons, organisations, departments or agencies, whose functions, interests or activities are not relevant to PEZ or the proposed activity and include a reason for omission and lack of relevancy in the register. For example a fishery management area that does not overlap the PEZ would be omitted. Similarly, a government department with no function in relation to the activity or location of the activity would also be omitted.

### 3.2 Step 2 – Undertake relevant persons identification workshop

The workshop will utilise the inputs described in Section 3.1.1, including GIS mapping.

Workshop attendees will include relevant SMEs from across INPEX including Corporate Affairs, Environment, the department conducting the activity (i.e. drilling, subsurface, operations), Aboriginal Affairs, and Government Approvals.

A workshop facilitator will record attendance at the workshop and retain all records for future audit/inspection.

The following questions and prompts are provided to help guide the discussion during the workshop:

- Does the function, interest or activities of the person, organisation, department or agency overlap the PEZ?
- Are there any values within the PEZ that the person, organisation, department or agency may be interested in?

The workshop will also include discussion of matters such as:

- When did INPEX last consult with the person, organisation, department or agency in relation to the development or revision of an EP?
- Are there any lessons learned from previous consultation with the person, organisation, department or agency that may influence the consultation approach for this EP?
- Does the relevant person have any specific information needs?
- Can the person, organisation, department or agency provide information or assistance in the design, development or management of planned activities?
- Can the person, organisation, department or agency assist in informing the appropriateness of preparedness/response for emergency conditions (e.g., are they involved in INPEX's Browse Regional Oil Pollution Emergency Plan)?
- Can they provide information that could help support the development of the existing environment section?

The output of the workshop is a completed register of all relevant persons that need to be consulted about the proposed activity that includes a summary of the specific information needs.

#### 3.2.1 Identify relevant persons

The process of identifying relevant persons for a proposed activity is presented in Figure 3-3.

The initial screening question to establish if the person, organisation, department or agency is a relevant person in relation to an EP, is whether they have functions, interest or activities that overlap or are adjacent to the PEZ. When considering this question during the workshop, various sources of information as described in Section 3.1.1, will be used.

Where there is overlap or are adjacent to the PEZ, the person, organisation, department or agency is identified as a relevant person. Once identified, each relevant person shall be classified into one of the categories as defined by subregulation 11A(1) of the OPGGS (E) Regulations and presented in Table 3-3.

Where there is no affect (or the affect is immaterial/negligible) on a relevant persons functions, interest or activities, the person, organisation, department or agency is not considered a relevant person for the EP<sup>10</sup>. INPEX maintains information on proposed activities on their publicly accessible website and where the EP relates to an exploration activity, the person, organisation, department or agency has an opportunity to provide feedback during the public comment period in accordance with subregulation 11B of the OPGGS (E) Regulations.

If INPEX considers that the person, organisation, department or agency, although not a relevant person, may be able to provide input into the development of the EP they can be categorised as a relevant person under subregulation 11A(1) e *any other person or organisation that the titleholder considers relevant*.

In addition, in circumstances where there is uncertainty as to whether the functions, interests or activities of a person, organisation, department or agency may be affected by the activity (e.g. those adjacent to the PEZ), then these persons are categorised as a relevant person under subregulation 11A(1) e *any other person or organisation that the titleholder considers relevant*.

Table 3-2 presents factors that INPEX considers when assessing relevance of a person, organisation, department or agency.

It is acknowledged that through either the process of consulting with a relevant person or via the extension of enquiry process (Section 3.5), additional relevant persons may be brought to INPEX’s attention. In these scenarios, newly identified relevant persons will be consulted in the manner described in this methodology. Further, the new relevant persons will be added to the universal list in preparation for future EPs.

Relevant persons identified are then consulted in the most appropriate manner. Those that are identified as not relevant but have expressed an interest in INPEX activities can be directed to INPEX’s website or where applicable, informed of the public comment process for exploration EPs.

During the consultation process, new information may become available to inform the extent of effect of an activity on a relevant person’s functions, interests or activities, which may result in an identified relevant person being removed from the relevant persons list. For example, a relevant person identified by INPEX, may advise that they do not believe they are relevant, or new information may become available which further informs/clarifies a relevant person’s actual functions, interests or activities which are not to the extent as previously perceived by INPEX during the initial selection process.

Table 3-2: Factors considered when assessing relevance of a person, organisation, department or agency

Person, organisation, department or agency	Factors considered
Government departments and agencies & ministers	Government departments and agencies defined under subregulation 11A(1) a and b, are deemed relevant where their functions or activities overlap the PEZ. Relevant persons defined under subregulation 11A(1) c, are limited to departments of responsible State/Northern Territory ministers that are a member of the Offshore Petroleum Joint Authority for the offshore area adjacent to where the planned activity would occur.

Person, organisation, department or agency	Factors considered
Local Government Authorities (LGAs)	<p>Only LGAs with coastal boundaries and where shoreline contact is predicted are deemed relevant.</p> <p>Consideration is given to whether an LGA is located in an area of INPEX's long-term areas of operational presence.</p>
<p>Aboriginal and Torres Strait Islander peoples, Traditional Owners and Site Custodians, Native Title Representative Bodies, Prescribed Body Corporates and other relevant Indigenous community organisations</p>	<p>PBCs/Native Title Representative Bodies/Organisations representing Aboriginal people who are not associated with coastal areas are excluded.</p> <p>PBCs/Native Title Representative Bodies/Organisations representing Aboriginal people who are associated with coastal areas adjacent to the PEZ, are considered relevant persons (category 11A(1) e) conservatively, on the basis of uncertainty as to whether their functions, interests or activities would be affected by activities.</p> <p>Consideration is given to whether Aboriginal and Torres Strait Islander peoples, Traditional Owners and Site Custodians, Native Title Representative Bodies, Prescribed Body Corporates or other organisation is located in an area of INPEX's long-term areas of operational presence.</p>
<p>Commercial fishing (licence holders, fisheries, associations/councils) and recreational fishing associations</p>	<p>Only those commercial fisheries with fishery management areas that overlap the PEZ are considered relevant persons.</p> <p>Only recreational fishing associations with activities that overlap the PEZ are considered relevant persons.</p>
Businesses	<p>Only businesses reliant on marine or coastal environments were considered relevant if they overlapped areas of shoreline contact or PEZ.</p> <p>Where a PEZ is adjacent to community with marine based businesses, business websites were reviewed to determine if they had any activities that could overlap the PEZ (e.g. fishing charter day trips).</p> <p>Consideration is given to whether a business is located in an area of INPEX's long-term areas of operational presence.</p>
Oil and gas or greenhouse gas titleholders	<p>Only those titleholders that have activities or interests that overlap the PEZ.</p>
Environmental organisations (non-government)	<p>ENGOS are limited to those with invested local interests within the area of possible consequence of the activity (i.e. state, territory and local area organisations), and other organisations that have self-identified as being relevant due to a specific function, interest or activity that directly relates to the possible consequences of the activity.</p>

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Person, organisation, department or agency	Factors considered
	NGOs acting as a legal service are not considered relevant; however, persons they represent may be, where their functions, interests or activities directly relate to the possible consequences of the activity.

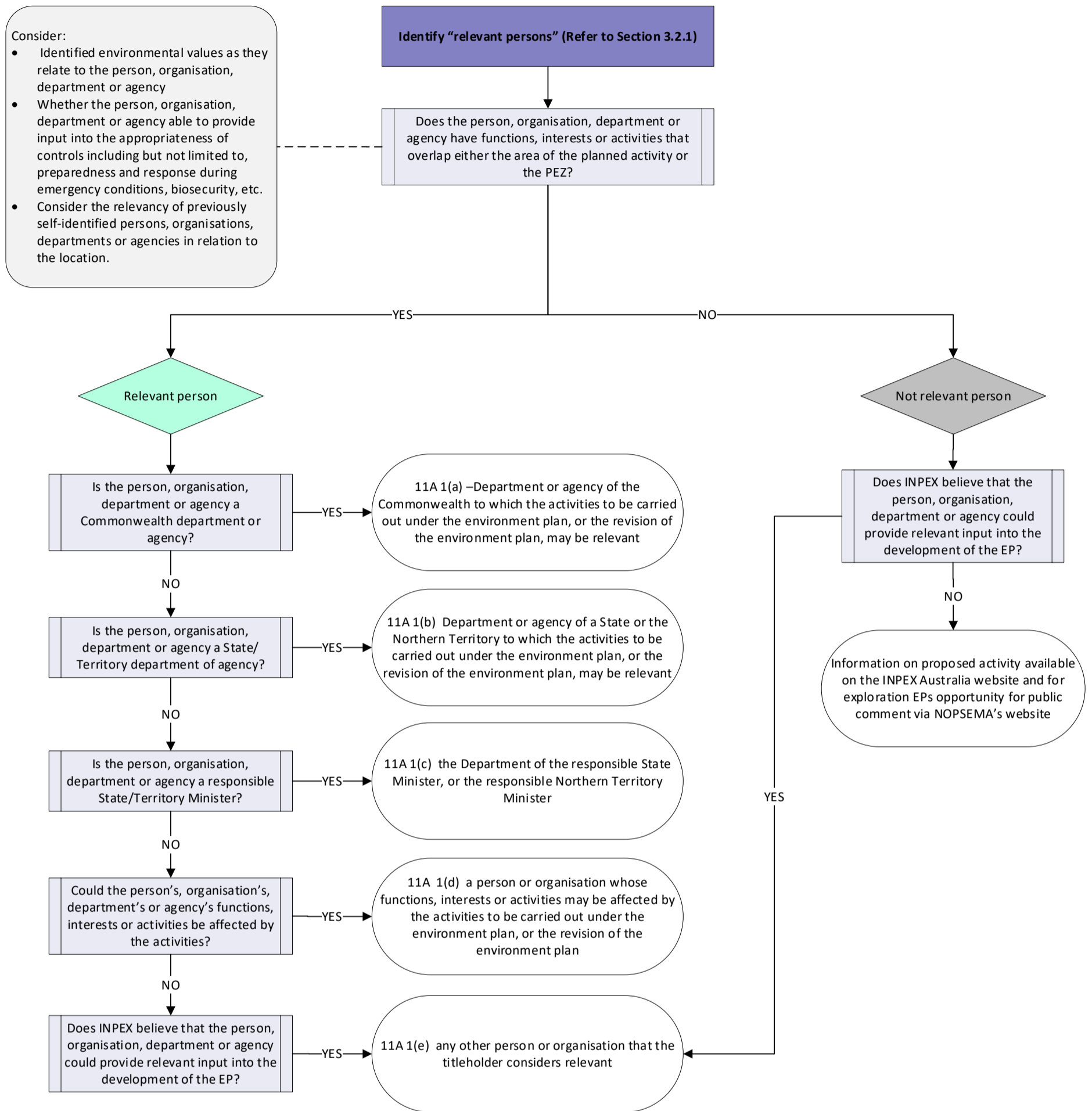


Figure 3-3: Determination of relevant persons

Table 3-3: Definition of relevant persons

Category	Definition	Examples of relevant persons	General consultation approach
11A(1) a	Each Department or agency of the Commonwealth to which the activities to be carried out under the EP, or the revision of the EP, may be relevant	This category includes, but is not limited to, Commonwealth departments or agencies such as DCCEEW, Department of Agriculture, Fisheries and Forestry, the Australian Maritime Safety Authority, the Department of Defence, the Director of National Parks, etc.	Commonwealth departments or agencies maybe be consulted at a high level using a basic factsheet or may receive detailed information specific to their functions, interests or activities.
11A(1) b	Each Department or agency of a State or the Northern Territory to which the activities to be carried out under the EP, or the revision of the EP, may be relevant	This category includes State or Territory departments or agencies such as the NT Department of Environment, Parks and Water Security, NT Department of Infrastructure, Planning and Logistics, WA Department of Transport, WA Department of Primary Industries and Regional Development, etc.	State/Territory departments or agencies maybe be consulted at a high level using a basic factsheet or may receive detailed information specific to their functions, interests or activities.
11A(1) c	The Department of the responsible State Minister, or the responsible Northern Territory Minister	This category includes departments of responsible State or Territory Ministers who are a member of the Offshore Petroleum Joint Authority such as the WA Department of Mines, Industry Regulation and Safety and the NT Department of Industry, Tourism and Trade – Energy Division.	Departments of relevant responsible ministers may receive a basic factsheet or may receive detailed information specific to their functions, interests or activities.



Category	Definition	Examples of relevant persons	General consultation approach
11A(1) d	A person or organisation whose functions, interests or activities may be affected by the activities to be carried out under the EP, or the revision of the EP	This category includes relevant persons such as Aboriginal land councils/body corporate representatives, industry (e.g. commercial fishing, tourism) representative bodies, other industries (e.g. fisheries, petroleum) that overlap with the PEZ, etc.	Different consultation approaches may be required for certain relevant persons in this category (refer to Section 3.3.1). This may range from high level basic factsheets, to the provision of detailed information on the activity location and timing. Meetings (e.g. community, town hall or in-person) may be required and cultural considerations may need to be taken into account. Note that initial consultation, as a first line of enquiry may be sought with Aboriginal land councils/body corporate or industry representatives which may then facilitate further identification and engagement with other relevant persons.
11A(1) e	Any other person or organisation that the titleholder considers relevant.	This category includes relevant persons such as INPEX service providers for spill response (e.g. AMOSC, RPS). Due to the uncertainty of the extent of sea country, it also includes Aboriginal land councils/body corporate representatives that do not overlap the PEZ, but where the PEZ is adjacent to the coastline of these relevant persons.	Other persons the titleholder considers relevant maybe be consulted at a high-level using a basic factsheet or may receive detailed information, including timing of activities, specific to their functions, interests or activities.

### 3.2.2 Identify consultation requirements specific to each relevant person

Once assessed as relevant, during the workshop, any specific requirements for consultation with relevant persons should be established. Departments and agencies may have guidelines applicable to the offshore industry on how they wish to be consulted and what information they require. For example, this may require the completion of a proforma or specific GIS mapping to highlight the location of the proposed activity.

During the workshop, the potential for a relevant person to provide INPEX with specific information that can be used to support the development of the EP should also be considered. This may include scientific or other information to support the existing environment section. In addition, the appropriate method of consultation with Aboriginal and Torres Strait Islander relevant persons will be discussed and agreed. This will ensure that consultation with Aboriginal and Torres Strait Islander relevant persons, is effective and undertaken in a culturally appropriate manner and in accordance with the INPEX Aboriginal & Torres Strait Islander Engagement Standard (0000-A0-STD-60006).

INPEX utilises a range of tools to consult with relevant persons in the most appropriate manner considering best practice standards and codes of practice. For a proposed activity, identified relevant persons may be consulted using one or more of the following methods:

- high level factsheets/summaries/letters
- phone calls and emails
- meetings (community, town hall or in-person) and briefings with presentation slides, handouts
- focus groups with particular community groupings
- detailed descriptions of proposed controls
- GIS mapping highlighting values in relation to a relevant person's functions, interest, or activities
- provision of specific information as outlined in guidance material issued by certain relevant persons (refer to Section 3.3.1).

INPEX's strategy is to develop and maintain long-term relationships with stakeholders (including relevant persons) in areas where INPEX has an operational presence, both onshore and offshore, which may result in consultation and engagement at levels above and beyond that required for the purposes of compliance with the OPGGS (E) Regulations.

INPEX uses the categories and descriptors presented in Table 3-4 and Table 3-5 to ensure that potentially relevant persons receive appropriate consultation materials.

Table 3-4: Consultation categories for relevant persons

Category	Description of category
Category 1	Relevant persons who may be affected directly by planned activities. Relevant persons who have published / known requirements on how they wish to be consulted with.
Category 2	Relevant persons who may be affected directly by unplanned activities (within the PEZ). Relevant persons who require information regarding unplanned activities (i.e. spills).

Category	Description of category
Category 3	Other relevant persons who may be indirectly impacted by the activities or have interests. Includes relevant persons who are not known to INPEX but may make themselves known through the extended enquiry (refer to Section 3.3).

Table 3-5: Consultation strategy level

Consultation strategy level	Description of strategy
Level A	Work with relevant person to ensure targeted and tailored information is provided to enable an effective consultation process. This may include meetings or presentations, scheduled phone calls and specific information. As appropriate, direct engagement with Aboriginal and Torres Strait Islander relevant persons may be undertaken to co-design consultation approaches.
Level B	Specific information based on known information needs (e.g. published industry guidance notes or proformas outlining what information a relevant person wishes to receive). May require ongoing, iterative consultation over an extended period of time. As appropriate, direct engagement with Aboriginal and Torres Strait Islander relevant persons may be undertaken to co-design consultation approaches.
Level C	Broader, higher level consultation. This may include emailed factsheets or information, with access to EP summary website or similar.
Level D	Extended enquiry – advertisements in newspapers throughout Australia, social media/media information directing people to an EP summary website.

### Unascertainable relevant persons

In some cases INPEX may identify a group of relevant persons that may be potentially affected; however, is unable to confirm individual contact details as these are not ascertainable.<sup>11</sup> through normal mechanisms (e.g. associated government agencies, organisations or groups who hold these details or who can advise who these individuals are). As such consulting with such relevant persons is not capable of being discharged within a reasonable time due to the *“opacity as to the identity of those with whom consultations are to take place”*<sup>11</sup>.

The opportunity exists for such persons to contact INPEX, via INPEX’s publicly accessible website.

<sup>11</sup> Appeal Decision, paragraph [136].

### 3.3 Step 3 – Prepare for relevant person consultation

Prior to preparing materials for consultation, the Corporate Affairs function will review the consultation methods proposed in workshop and finalise the consultation approach for each relevant person. Depending on the nature and scale of the activity and the complexity of consultation with relevant persons, a specific consultation strategy may be developed. Where meetings (either in-person or via other means) are required, the relevant person should be contacted to ascertain availability.

Where consultation for a number of EPs/proposed activities is required in a similar timeframe, an overall strategy to consultation will be considered to avoid relevant person 'fatigue'. Examples where this may be appropriate include:

- where multiple, but different, proposed activities are occurring in the same geographical area and permit area within a similar time-frame. For example, a seismic and drilling campaign are proposed in the same permit area within short succession of each other.
- where similar proposed activities are required in the same geographical location but different permit areas. For example two separate exploration drilling campaigns are proposed in different permits, but within the same geographical location.

In accordance with subregulation 11A(2) of the OPGGS (E) Regulations, when developing consultation materials the following information will be provided:

- a summary of the activity description including location, timing and duration including distances from the Australian coastline and a map with coordinates listed
- a high-level description of the environment that may be exposed in relation to values associated with the PEZ such as marine protected areas, protected species habitats, etc
- a summary of potential impacts associated with the activity including a high-level description of emissions, discharges and wastes
- a summary of management controls to be implemented.

#### 3.3.1 Specific consultation approaches and information requirements for certain relevant persons

##### *Relevant persons who have indicated specific information needs*

Some relevant persons have developed guidance documents or have information on their websites, which outline specific information they require from a titleholder during EP consultation. Any specific guidance will be identified during the relevant persons identification workshop (refer to Section 3.2.2). When preparing consultation materials for such relevant persons any guidance should be reviewed to ensure all requested relevant information is provided.

##### *Other petroleum or greenhouse gas titleholders*

Given that other titleholders have an understanding of the industry and the potential consequences of associated activities; INPEX will notify any titleholders who have permits in the PEZ. Some titleholders may be notified directly by INPEX and others where relevant may be notified via established joint venture partner communication arrangements. Note, INPEX will not necessarily follow-up with other titleholders, unless there is the potential they could be affected directly by the proposed activity (i.e. by simultaneous operations or concurrent operations).

### *Commercial fishers*

Fishers whose fishing management area overlaps the planned activity or PEZ, but where there is no actual fishing effort are provided less information (i.e. they would be sent the basic fact sheet). Whereas fishers that are active in the planned activity area or are active in close proximity to this area, would be provided with more detailed specific information about the proposed activity regarding timing and durations, etc. INPEX may also request additional information from them with regards to peak timing of fishing seasons and any potential closures so this can be reflected in the EP. They may also be sent information on INPEX's claims process.

In some instances, INPEX may opt to use a third-party provider such as the West Australian Fishing Industry Council that offers a paid for service to identify fisheries that overlap the activity and relay information to them.

### *Aboriginal and Torres Strait Islander peoples*

INPEX's Aboriginal Affairs team will be engaged to provide guidance on culturally appropriate consultation approaches in accordance with the INPEX Aboriginal & Torres Strait Islander Engagement Policy (0000-A0-POL-60003) Aboriginal & Torres Strait Islander Engagement Standard (0000-A0-STD-60006). As appropriate, direct engagement with Aboriginal and Torres Strait Islander relevant persons may be undertaken to co-design consultation approaches.

INPEX will engage with Aboriginal and Torres Strait Islander relevant persons in a culturally appropriate manner ensuring that local traditions, customs and protocols are considered prior to scheduling engagements. Distances that Aboriginal and Torres Strait Islander peoples may need to travel to attend a meeting will also be taken into consideration.

In the first instance INPEX will utilise land councils and registered prescribed body corporates recognised under the Native Title Act and other relevant State/Territory legislation (e.g. Aboriginal Land Rights (Northern Territory) Act), to facilitate consultation with Aboriginal and Torres Strait Islander relevant persons. This initial consultation will be used as a first line of enquiry, the outcome of which may then facilitate further identification and engagement with other Aboriginal and Torres Strait Islander peoples that are relevant persons for the purposes of the EP.

## 3.4 Step 4 – Consult with relevant persons

The process of consulting with identified relevant persons for a proposed activity is presented in Figure 3-4. The process details the recommended timeframes and provides a prompt on when, and if it is appropriate, to seek alternative methods of consultation if responses or acknowledgments are not received. Where responses are received, an assessment of relevant matters, claims or objections is undertaken so that a response can be provided and the matter considered to be addressed, enabling the consultation for development of the EP to be closed.

As described in Section 3.2.2, a number of methods of consultation may be used during consultation with relevant persons; noting that each relevant person may require a different level of information in order to make an assessment of the possible consequences of the activity on their functions, interest or activities. Emails, factsheets, letters, and meeting invites issued will include a request for acknowledgement of receipt of the materials. Relevant persons shall also be informed of the timeframes associated with the consultation period to ensure they are aware of when the EP consultation period will close and can provide feedback in a timely manner.

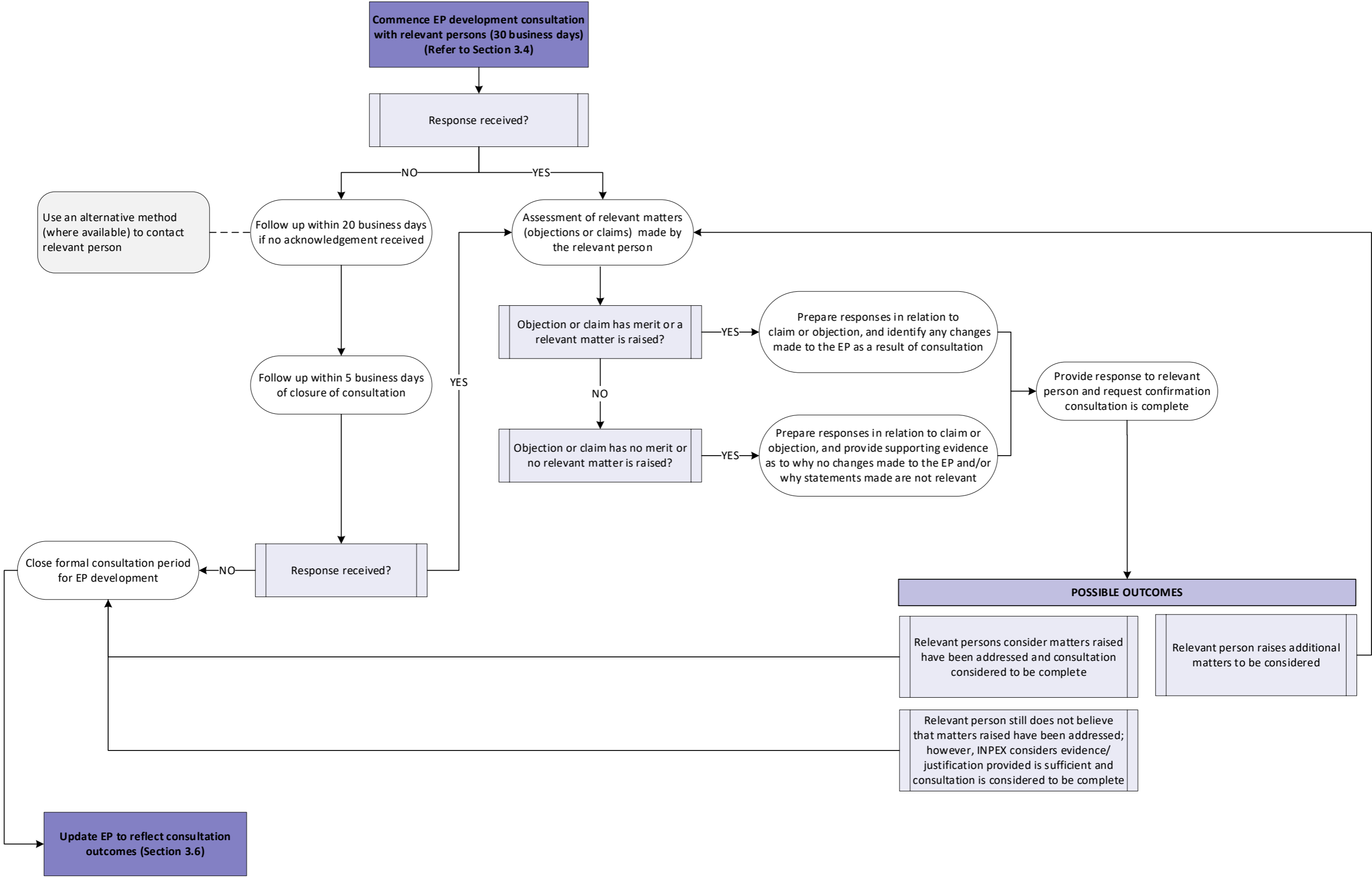


Figure 3-4: Consultation with relevant persons

### 3.4.1 Consultation period

#### Reasonable period

As defined in Table 2-2, for consultation to be effective, relevant persons need to be afforded a 'reasonable period' to identify the effect of the proposed activity.

Consultation with relevant persons during the development of an EP will generally run for 30 business days (six weeks) (Consultation Period). This duration has been identified by INPEX as reasonable time for relevant persons to make an informed assessment of the possible consequences of the activity on their functions, interests or activities, in accordance with the requirements of subregulation 11A(3) of the OPGGS (E) Regulations, and provide an initial response.

Where dialogue with relevant persons is ongoing after this period, INPEX will continue to consult with these persons until INPEX believes that it has provided sufficient evidence/justification to close the consultation.

#### Follow-up

If INPEX does not receive an acknowledgement of receipt or a response from relevant persons contacted, this will be followed up after 20 business days (4 weeks). If no response is received a further, and final follow-up will be undertaken 5 days prior to the closure of the Consultation Period. This will ensure that INPEX makes a reasonable attempt to make contact with all identified relevant persons during the preparation of an EP.

If, no acknowledgement or response is received from attempts to contact a relevant person, then INPEX may try an alternative method of contact, where this information is available. This may include phone calls, using alternative addresses or identifying an alternative contact person, or using relevant person industry body newsletters/websites (e.g. fishing bodies) to broadcast information to their members, extended enquiry process (Section 3.5), etc.

The INPEX register of persons, organisations, departments and agencies, should list alternative contact details for each entity where practicable.

INPEX, recognises that emailed information may be inappropriate for some relevant persons, and in some cases community, town hall or in-person meetings may be more effective.

As an additional mechanism for making a reasonable attempt to reach relevant persons, where alternative contact details are unknown, INPEX will advertise in local, regional and national newspapers, as part of its extended enquiry (Section 3.5), during the Consultation Period. Further, the extended enquiry process will also act as a means for sharing information to identified relevant persons and providing an ongoing mechanism for feedback.

#### Close formal consultation period

The Consultation Period will close after 30 business days. Where dialogue with relevant persons is ongoing after this period, INPEX will continue to consult with these persons until INPEX believes that it has provided sufficient evidence/justification to close the consultation.

### 3.4.2 Assessment of merit for responses received

#### Objections or claims and relevant matters

INPEX's assessment of relevance and assessment of merit considers four broad categories:

1. objection or claim has merit – the objection or claim raised is relevant to both the planned activity and the relevant persons or organisations functions, activities or interests. The objection or claim has merit if there is a reasonable / scientific basis for related effects or impacts to occur and/or there is a reasonable basis for the objection or claim to be addressed in the EP.
2. objection or claim does not have merit – the objection or claim raised may be relevant to the planned activity or the relevant persons or organisations functions, activities or interests, however, the objection or claim raised has no credible or scientific basis.
3. relevant matter – the matter raised does not fit the criteria descriptions for objections or claims with/without merit. However, the matter raised is relevant to the planned activity, comprises a request to INPEX for further relevant information, or provides information to INPEX that is relevant to the activity or the EP.
4. not a relevant matter – correspondence does not relate to the planned activity or the relevant persons or organisations functions; interests or activities being affected by the activity. Non relevant matters may also be generic in nature with no specific issues raised (e.g. salutations, acknowledgements, meeting arrangements, etc.).

#### Responding to relevant persons

Upon receipt of comments made by relevant persons during the Consultation Period, INPEX will complete an assessment of merit as described in Section 3.4.2. For all comments received INPEX will draft and return responses where appropriate to the relevant persons who made the comment. INPEX's response will include the basis on which INPEX has assessed the matter to be relevant or not, and whether the objection or claim has merit.

The responses must be completed by relevant SMEs and include a reasonable/scientific justification. The responses may include a summary of changes made to the EP as a result of the objection or claim or the relevant matter raised. Information provided by relevant persons, that has been incorporated into the EP, will also be described in any responses.

Where INPEX has assessed matters to not be relevant or the objection or claim has no basis (scientific or other), then a response to explain and justify INPEX's position shall be provided to the relevant person.

INPEX shall request confirmation when providing responses to relevant persons that the matters raised have been addressed so that the consultation period can be considered closed.

Should new additional objections or claims, or matters be raised they will be assessed and appropriate responses made to the relevant persons as presented in Figure 3-4.

### 3.4.3 No responses received

Where no responses have been received from relevant persons after 30 business days (six weeks), INPEX will close the EP development Consultation Period. The EP will be updated to reflect the outcomes of the consultation period as described in Section 3.6.



As noted in Section 2, relevant persons are not obligated to respond to a titleholder requests to participate in the consultation process. In cases where no response has been received from a relevant person, after relevant follow-ups, and where sufficient information and reasonable period of time has been afforded to the relevant person, INPEX will consider consultation to be closed for the purposes of the preparation of the EP.

Note, relevant persons can continue to contact INPEX via the EP summary website during both the NOPSEMA assessment and implementation phases of the EP. The EP summary website includes multiple options for relevant persons to contact INPEX (e.g. via a link on the website, email, or phone).

### 3.5 Step 5 – Extension of enquiry to identify additional relevant persons

Through the comprehensive process described in Section 3.1 and 3.2, relevant persons for each EP specific activity will be identified. However, INPEX recognises that there may be instances where other persons, organisations, departments or agencies may consider themselves relevant and wish to be included in the consultation process. As an additional proactive step, INPEX will undertake an advertising campaign and publish information on the proposed activity to help identify any other relevant persons that may not have been identified.

The advertising campaign will include publication of notices on INPEX's website and social media channels. Notices will also be published in national and regional newspapers to capture those with limited access to the internet.

Where a person, organisation, department or agency identifies themselves to INPEX via these campaigns, INPEX will use this document as a basis to:

- assess if the person, organisation, department or agency is a relevant person, for the purposes of the EP (Section 3.2.1)
- if relevant, identify whether they have raised a relevant matter or objection or claim and provide a response to them (Section 3.4.2).

Further, as previously described in Section 3.4, the extended enquiry process will also act as a means for sharing information to identified relevant persons and providing an ongoing mechanism for feedback.

### 3.6 Step 6 – Updates to the EP to incorporate consultation feedback

The outcome of the consultation may involve an update to the EP to incorporate any appropriate information obtained by INPEX during the consultation period. This may include additional information presented in the existing environment section, or impact and risk evaluations. Where applicable this could include the inclusion of new controls. This is considered as part of the assessment merit of responses/information received, as described in Section 3.4.2.

#### 3.6.1 EP relevant persons register

For transparency, the list of relevant persons identified during the workshop, as described in Section 3.2, will be presented in the EP as an appendix. This will provide a demonstration on how INPEX has assessed all persons, organisations, departments and agencies to confirm relevancy for the activity described in the EP.

### 3.6.2 Relevant persons consultation log

During consultation (refer Section 3.4) INPEX will retain all incoming and outgoing communications associated with the EP. A summary of consultation with relevant persons will be provided to NOPSEMA as part of the EP submission.

The consultation log will summarise feedback from relevant persons and INPEX's response to the feedback. INPEX will also present an assessment of merit for all responses received so that any objections or claims, and relevant matters as defined in Section 3.4.2, are fully considered. Where relevant matters are raised, which require an update to the EP, INPEX will include a reference to the sections of the EP that have been amended as a result of the consultation feedback.

### 3.6.3 Sensitive matters report

Sensitive information, as defined in Regulation 4 of the OPGGS (E) Regulations, must be submitted to NOPSEMA in a separate report (referred to as the sensitive matters report) and will not form part of the publicly available EP.

The sensitive matters report will contain a record of all consultation activities undertaken with relevant persons for the specific EP. The report will include all outgoing and incoming emails and letters, fact sheets that have been issued, meeting slides used for presentations, handout materials, meeting minutes, completed telephone call proformas and relevant persons contributions.

The sensitive matters report will contain evidence of the use of alternative methods of communication (e.g. phone calls instead of emails), for example in the event that no response or acknowledgment of receipt of consultation materials is received.

A central consultation email inbox will be established and also a repository for saving all relevant files that can be used to collate the sensitive matters report.

## 4 ONGOING CONSULTATION REQUIREMENTS

INPEX recognises that consultation with relevant persons in relation to activities covered by an EP is an iterative process.

In order to facilitate ongoing consultation INPEX will maintain a dedicated webpage for active EPs. This will provide identified relevant persons and any new relevant persons an opportunity to provide feedback during the implementation of the EP.

Where a person, organisation, department or agency is identified by INPEX post-EP development (refer Figure 4-1), INPEX will use this document as a basis to:

- assess if the person, organisation, department or agency is a relevant person, for the purposes of the EP
- if relevant, identify whether they have raised a relevant matter or objection or claim and provide a response to them (making any updates to the EP where required)
- if not relevant, assess whether they should be directed to the INPEX Community Grievance Procedure (0000-A0-PRC-60026).

In addition to the above, relevant persons may have requested to be informed of certain events or stages of the activity during the implementation of the EP. These requirements are described in the implementation strategy of the EP as commitments and commonly include notifications of start and end dates for an activity, or notifications in the event of an oil spill.

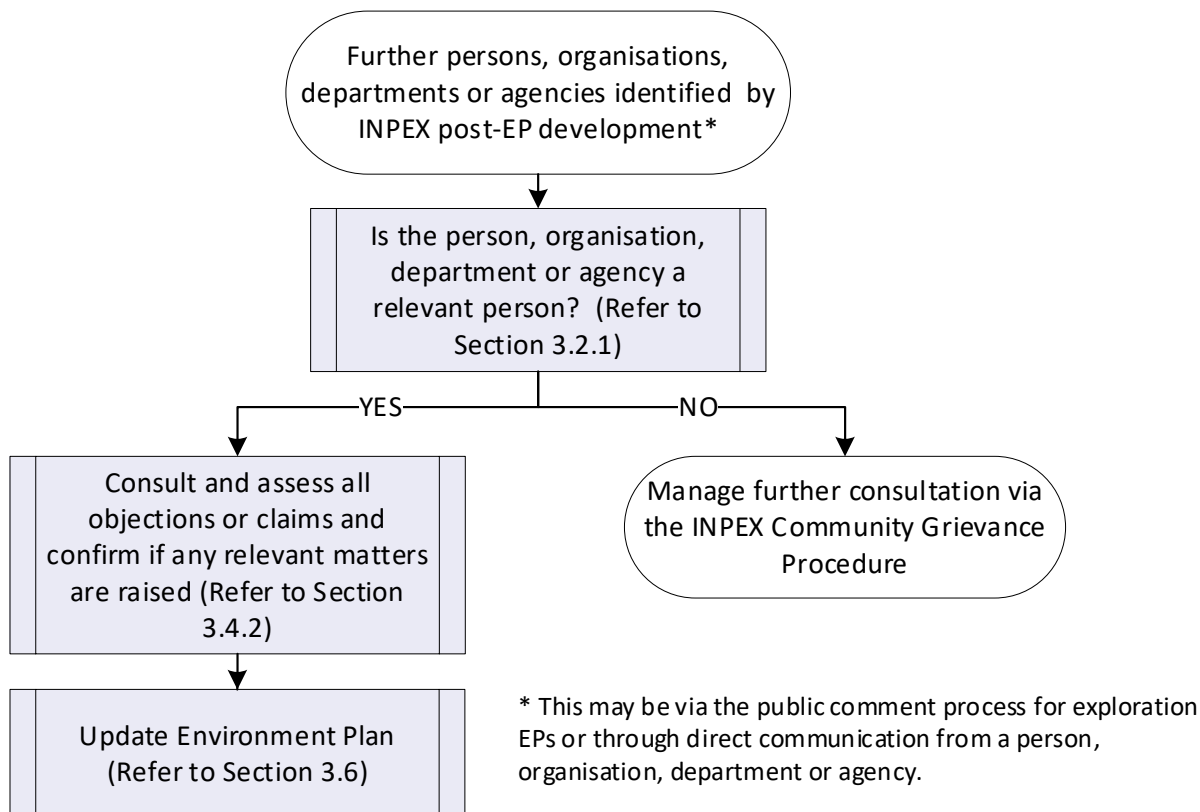


Figure 4-1: Ongoing consultation post-EP development

## 5 REVIEW OF RELEVANT PERSONS IDENTIFICATION PROCEDURE

### 5.1 Review of this document

INPEX's Environment team is responsible for initiating the review process for this document.

This document shall be reviewed at a minimum frequency as stated in the INPEX Business Management System Standard, (currently at least every three (3) years).

The following shall also trigger a review of this document:

- a relevant change to applicable Australian legislation or regulations
- feedback from audits and/or inspections (internal and external).

### 5.2 Review of inputs

#### 5.2.1 Maintenance and update of INPEX register of persons, organisations, departments and agencies

INPEX will review its existing register of persons, organisations, departments and agencies on the following basis:

- Annual review of all entities in the register
- Ad-hoc review of register in instances including, but not limited to, the following:
  - change in structure of Government departments or agencies
  - change in person or organisation contact details
  - notifications received from any entity, which may impact the accuracy of the register
  - as requested by any relevant SME within INPEX.

INPEX will maintain an up-to-date and fit-for-purpose register of persons, organisations, departments and agencies, to a practicable and reasonable extent.

#### 5.2.2 Maintenance and update of the existing environment reference document

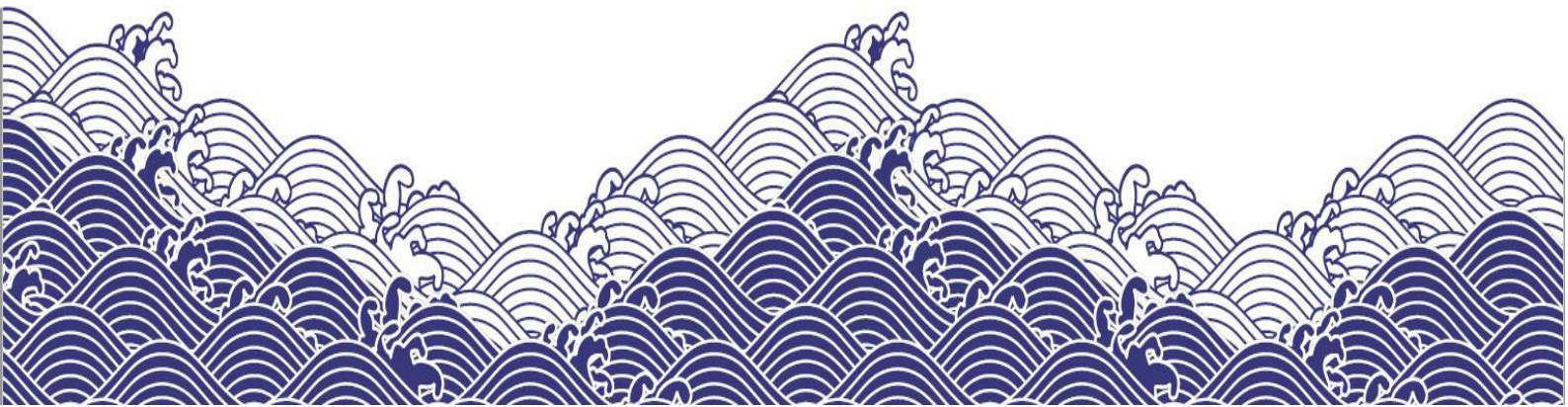
Through implementation of the environment team quarterly risk review process, all required updates to EPs are documented. Updates to the existing environment section of an EP may be required for a number of reasons including, but not limited to:

- identification of new protected areas (marine and cultural)
- changes to marine park boundaries
- results of environmental monitoring studies and scientific research published
- changes to fisheries management areas or fishing effort
- publication of new conservation management advices/recovery plans
- changes to the conservation status of protected species.

Any changes identified during the quarterly risk review are recorded and the existing environment reference document used as an input in Section 3.1.1, is updated on an annual basis or in cases where a new EP has been identified. This also includes updates to GIS mapping where applicable.

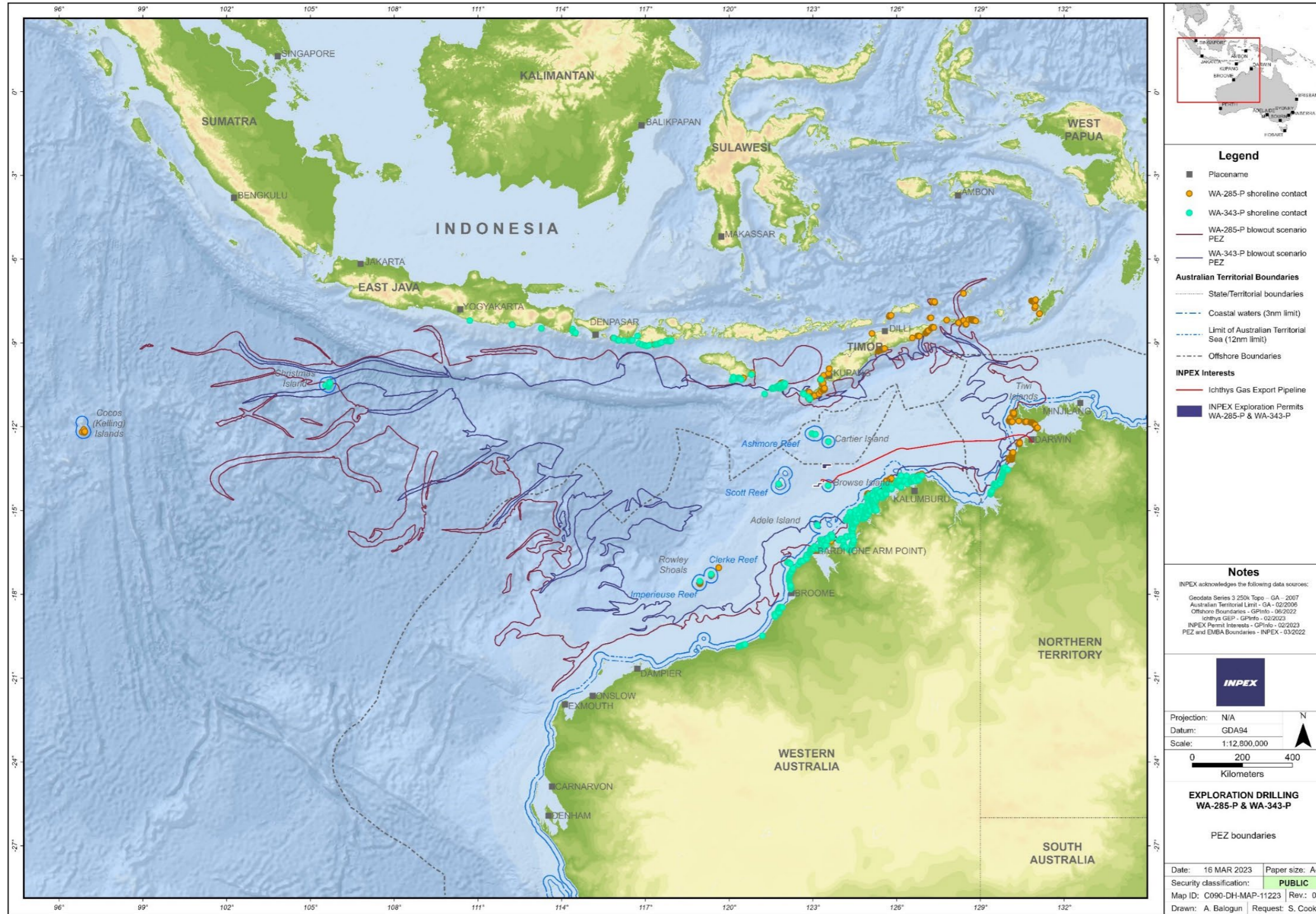


## Appendix B.3 - List of Relevant Persons



WORKSHOP INPUTS

The following figure represents the geographical area potentially exposed to hydrocarbons for all spill scenarios (i.e. unplanned activities) associated with this EP. The basis for identifying relevant persons that fall within the potential exposure zone is in accordance with Appendix B.2 – INPEX Australia relevant persons determination and consultation methodology for offshore environment plans, **Section 3.1.1 workshop inputs**.



The information contained on this map is confidential and for information only, and must not be communicated to other persons without the prior written consent of INPEX. Any unauthorised use of such information may expose the user and the provider of that information to legal risk. While every effort has been made to ensure the accuracy and completeness of the information presented, no guarantee is given nor responsibility taken by INPEX for any errors or omissions. INPEX accepts no liability for any use of the said information or reliance placed on it.

\* Relevant person as set out in *Consultation in the course of preparing an environment plan* Document No: N-04750-GL2086 A900179 Date: 12/05/2023 [Guideline: Consultation in the course of preparing an environment plan \(nopsema.gov.au\)](https://www.nopsema.gov.au)

*Relevant person	Description
11A(1)(a)	each Department or agency of the Commonwealth to which the activities to be carried out under the EP, or the revision of the EP, may be relevant
11A(1)(b)	each Department or agency of a State or the Northern Territory to which the activities to be carried out under the EP, or the revision of the EP, may be relevant
11A(1)(c)	the Department of the responsible State Minister, or the responsible Northern Territory Minister
11A(1)(d)	a person or organisation whose functions, interests or activities may be affected by the activities to be carried out under the EP, or the revision of the EP
11A(1)(e)	any other person or organisation that the titleholder considers relevant.

#### Summary of the categories of relevant persons and consultation strategy

Category	Description of category
Category 1	Relevant persons who may be affected by planned activities. Relevant persons who have published / known requirements on how they wish to be consulted with.
Category 2	May be affected directly or indirectly by unplanned activities (within the PEZ). Those that require information regarding unplanned activities (i.e. spills).
Category 3	Anyone else who may be indirectly impacted or have interests. Includes extended enquiry for persons who are not known to INPEX.
Consultation strategy level	
Level A	Work with relevant person to ensure targeted and tailored information is provided to enable an effective consultation process - may include meetings or presentations, scheduled phone calls and specific information. As appropriate, direct engagement with Aboriginal and Torres Strait Islander relevant persons may be undertaken to co-design consultation approaches.
Level B	Specific information based on known information needs - may require ongoing, iterative consultation over an extended period of time. As appropriate, direct engagement with Aboriginal and Torres Strait Islander relevant persons may be undertaken to co-design consultation approaches.
Level C	Broader, higher-level consultation - may include emailed factsheets or information, with access to EP specific website or similar.
Level D	Extended enquiry – advertisements in newspapers throughout Australia, social media/media information directing people to an EP specific website.

## WORKSHOP OUTPUT

Category	Jurisdiction/ location or activities	Relevant person	General description	Functions, activities or interests	Are there any environmental values in relation to the EP/PEZ that intersect a persons, organisations, departments or agency's functions, activities or interests?	Categorisation of relevant person under OPGGS (Environment) Regulation 11A(1)A	Basis of selection for relevant persons engagement during development of EP.	Category (1 to 3)	Consultation strategy level (A to D)
Agency	Commonwealth	Australian Maritime Safety Authority (AMSA) - Marine Environment Pollution Response	AMSA are an agency under Department of Infrastructure, Transport, Regional Development, Communications and the Arts. Responsible for protection of the marine environment (i.e. pollution response), and maritime aviation search and rescue. Control Agency for marine vessel spills.	Function is to be responsible for protection of the marine environment (i.e. pollution response), and maritime aviation search and rescue.	Not relevant to the values described in the EP. AMSA are the Control Agency for response to marine pollution in the Commonwealth Marine Area.	11A(1)(a)	Oil spill preparedness and response.	Category 2	A
Department	Western Australia	Department of Biodiversity Conservation and Attractions (DBCA)	Responsible for promoting biodiversity and conservation through sustainable management of WA's species, ecosystems, lands and the attractions in WA. Oil wildlife response lead agency WA.	Function is to manage WA parks (including marine) to protect and conserve. Lead agency for oil wildlife response for spills in WA.	Ecological values associated with WA habitats in the PEZ (e.g. Browse Island, WA marine parks, BIAs, etc.).	11A(1)(b)	Manage WA habitats within the PEZ (e.g. Browse Island, WA marine parks, BIAs, etc.).	Category 2	C
Department	Northern Territory	Department of Industry, Tourism and Trade - Fisheries - Aquatic biosecurity section	Management of marine pest risks to NT.	Function is the management of marine pest risks to NT.	Values relating to the marine habitats (shoals, reefs, etc.) and potential impacts resulting from inappropriate management of biofouling and ballast water management.	11A(1)(b)	Supply vessels/conveyances may represent a vector for marine pests if they are travelling between Darwin Port and permit areas.	Category 1	C
Department	Western Australia	Department of Transport (WA DoT) – Marine Safety	Control agency for marine oil pollution in WA waters. Responsible for oil spill preparedness and response.	Function is the management of marine oil pollution in WA. As control agency they will take the lead in communications/ consultation in the event of an oil spill.	Not relevant to the values described in the EP. DoT are the Control Agency for response to marine pollution in WA.	11A(1)(b)	Informs the development of the BROPEP - preparedness and response as they relate to State Control Agency functions.	Category 2	A/B
Agency	Commonwealth	Australian Communications and Media Authority	ACMA are an agency under Department of Infrastructure, Transport, Regional Development, Communications and the Arts. Assist in identifying subsea cables within vicinity of proposed activities.	Function in relation to the EP is to play a role in the protection zones for submarine cables and provide information as to their location.	Other marine users (presence of communications infrastructure in the marine environment).	11A(1)(a)	ACMA can provide advice on any undersea cables that may be present in the area.	Category 1	C
Agency	Commonwealth	Australian Fisheries Management Authority (AFMA)	AFMA are an agency under the Department of Agriculture, Fisheries and Forestry. Responsible for the management and sustainable use of Commonwealth fish resources on behalf of the Australian community. They manage and monitor commercial	Function is the management and sustainable use of Commonwealth fish resources, including the management of Commonwealth Fisheries.	Commonwealth fisheries and fish habitat.	11A(1)(a)	Commonwealth Fishery boundaries extend from 3nm to the EEZ within which INPEX Australia activities occur.	Category 1	C



Category	Jurisdiction/ location or activities	Relevant person	General description	Functions, activities or interests	Are there any environmental values in relation to the EP/PEZ that intersect a persons, organisations, departments or agency's functions, activities or interests?	Categorisation of relevant person under OPGGS (Environment) Regulation 11A(1)A	Basis of selection for relevant persons engagement during development of EP.	Category (1 to 3)	Consultation strategy level (A to D)
			Commonwealth fishing to ensure Australian fish stocks and fishing industry are viable now and in the future. AFMA do not directly license or regulate traditional fishers that may be operating in the MoU Box.						
Department	Commonwealth	Department of Climate Change, Energy, the Environment and Water - Underwater Cultural Heritage	Australian Government department that regulates activity in relation to protected underwater cultural heritage (UCH) within Australian waters including Commonwealth marine area. Covers shipwrecks, aircraft and artefacts that have been in commonwealth waters for over 75 years. The Department is a relevant agency where an offshore activity has the potential to directly or indirectly adversely impact protected underwater cultural heritage (see section 30(2) of the UCH Act), whether located or unlocated.	Function is to regulate activities and provide protection for UCH over 75 years old, including ship wrecks, aircraft and other underwater cultural heritage.	UCH values associated with wrecked vessels and aircraft that have been in Commonwealth waters for longer than 75 years. Within the PEZ many potential sites that have protection orders under the UCH Act 2018. None within the permit areas.	11A(1)(a)	Responsible for the protection of underwater cultural heritage in Commonwealth Waters. A number of historic wrecks are located in the PEZ.	Category 1	C
Agency	Commonwealth	Australian Maritime Safety Authority (AMSA) - Nautical Advice	AMSA are an agency under Department of Infrastructure, Transport, Regional Development, Communications and the Arts. Responsible for implementation/application of marine orders, maritime safety information and provision of shipping data.	Function is the implementation/ap plication of marine orders and provision of maritime safety information.	Other marine users interface. Prevention of maritime accidents.	11A(1)(a)	Publish radio and navigation warnings for activities in the Commonwealth marine area. AMSA provide specific information to be included in the EP (notifications).	Category 1	C
Department	Commonwealth	Australian Hydrographic Office (AHO)	Forms is part of the Department of Defence, and is responsible for providing Australia's national charting service under the terms of SOLAS and the Navigation Act 2012 (Cth) and issuing notice to mariners. Gazettal of infrastructure i.e. well heads.	Function is to provide national charting service under the terms of SOLAS and the Navigation Act 2012 (Cth) and issuing notice to mariners. Gazettal of infrastructure i.e. well heads.	Other marine users interface. Physical presence and disruption to marine users, prevention of maritime accidents between users.	11A(1)(a)	Need to be kept informed of location of activities so can publish notice to mariners	Category 1	C
Department	Commonwealth	Department of Agriculture, Fisheries and Forestry - biosecurity branch (Marine Pests, Vessels, aircraft and personnel)	Responsible for managing the threat of biosecurity risks to Australia including marine pests, terrestrial pests, etc).	Function is marine pest management in the Commonwealth marine area.	Values relating to the marine habitats (shoals, reefs, etc.) and potential impacts resulting from inappropriate management of biofouling and ballast water management.	11A(1)(a)	Marine biosecurity management in the Commonwealth Marine Area.	Category 1	C

Category	Jurisdiction/ location or activities	Relevant person	General description	Functions, activities or interests	Are there any environmental values in relation to the EP/PEZ that intersect a persons, organisations, departments or agency's functions, activities or interests?	Categorisation of relevant person under OPGGS (Environment) Regulation 11A(1)A	Basis of selection for relevant persons engagement during development of EP.	Category (1 to 3)	Consultation strategy level (A to D)
Department	Northern Territory	Department of Industry, Tourism and Trade (DITT) - Fisheries	Responsible for NT fisheries strategies, projects and research.	Function is to be responsible for NT fisheries strategies, projects and research. Provision of fishing data (catch/effort) and individual licence contact details.	Socioeconomic values – fisheries.	11A(1)(b)	Some NT fisheries (whose boundaries may extend beyond NT waters) are located in the PEZ. Impacts to commercial fishing in the NT from activities described in an EP.	Category 1	C
Department	Western Australia	Department of Mines, Industry Regulation and Safety (DMIRS)	Responsible to protect workers and consumers; build a sustainable and responsible resources industry; and support economic growth and energy transformation. Department of a responsible Minister who is a member of the Offshore Petroleum Joint Authority.	Function is to support a safe, fair and responsible future for the WA community, industry, energy and resources sector.	Not relevant to the environmental values described in the EP.	11A(1)(c)	Department of responsible WA Minister who sits on the Offshore Petroleum Joint Authority. Planned activities occur in offshore areas of Western Australia. Notifications are required for drilling activities.	Category 1	C
Department	Western Australia	Department of Planning, Lands and Heritage (DPLH)	Responsible for state level land use planning and management, and oversight of Aboriginal cultural heritage and built heritage matters, the department supports four Ministers and administers a wide range of legislation. Interest in relation to offshore EP is Aboriginal cultural heritage.	Function is to be responsible for planning and management, and oversight of Aboriginal cultural heritage in WA.	Potential Aboriginal heritage sites within the PEZ.	11A(1)(b)	Can advise on Registered Aboriginal sites and known places of heritage within PEZ.	Category 2	C
Department	Western Australia	Department of Primary Industries and Regional Development (DPIRD) - Fisheries Division - Commercial Fisheries & Biosecurity sections)	Responsible for assessing and mitigating the potential impacts of planned industrial and resource projects on regional aquatic biodiversity. Responsible for the management of marine pest risks to Western Australia. Leads aquatic biosecurity surveillance program (state-wide).	Function is to manage WA fisheries and aquatic ecosystems and managing fish stocks. Management of marine pest risks to WA.	Environmental ecological values located in State Waters (WA), and WA fisheries (whose boundaries may extend beyond WA state waters).	11A(1)(b)	Can provide information on fishing effort for WA commercial fisheries, marine protected areas/protected species, which would be used to inform the existing environment description. Further, can provide information on management controls implemented to manage marine pest risks associated with the activities.	Category 1	C
Agency	Commonwealth	Director of National Parks	DNP are an agency under DCCEEW. Responsible for the management of Australian Marine Parks, provision of advice on management of activities located in AMPs or in proximity.	Function is to provide advice on management of activities located in Australian Marine Parks or in proximity.	Australian Marine Parks and ecosystem and habitats found in the PEZ.	11A(1)(a)	Responsible for the management of Australian Marine Parks, provision of advice on management of activities located in AMPs or in proximity.	Category 2	B
Agency	Western Australia	Kimberley Ports Authority	Responsible for the Ports of Derby, Yampi Sound and Wyndham and directly manages the Port of Broome which is the principal deepwater port servicing the Kimberley region.	Function is to manage Kimberley Ports which supply vessels will operate out of.	Socioeconomic values - represent businesses that operate within PEZ	11A(1)(b)	Supply vessels will operate out of Broome Port, which Kimberley Ports Authority.	Category 2	C

Category	Jurisdiction/ location or activities	Relevant person	General description	Functions, activities or interests	Are there any environmental values in relation to the EP/PEZ that intersect a persons, organisations, departments or agency's functions, activities or interests?	Categorisation of relevant person under OPGGS (Environment) Regulation 11A(1)A	Basis of selection for relevant persons engagement during development of EP.	Category (1 to 3)	Consultation strategy level (A to D)
Agency	Northern Territory	Northern Territory Environment Protection Authority	Responsible for the provision of advice on the environmental impacts of development proposals and regulatory services to encourage effective waste management, pollution control and sustainable practices.	Function under the Waste Management and Pollution Control Act to undertake compliance and enforcement activities to reduce the likelihood of environmental harm resulting from pollution.	Ecological values associated with NT habitats in the PEZ that affected may be affected by an unplanned event.	11A(1)(b)	NT government agency with a function to regulate pollution events in the NT.	Category 2	C
Department	Commonwealth	Department of Foreign Affairs and Trade (DFAT) - Foreign Affairs	DFAT has no direct role in the management of the Commonwealth marine area. DFAT may be consulted under the following circumstances: - where a proposed activity may cross into or impact on waters outside of Australia's maritime jurisdiction - where a proposed activity poses any oil spill or other environmental risks that could result in impacts to other international jurisdictions - where relevant persons that may be impacted by a proposed activity include foreign individuals or governments.	Function is to promote and protect Australia's international interests to support security and prosperity. Required to be consulted where a proposed activity poses any oil spill or other environmental risks that could result in impacts to other international jurisdictions.	PEZ extends into Indonesian and Timorese territory.	11A(1)(a)	Required to be consulted where a proposed activity poses any oil spill or other environmental risks that could result in impacts to other international jurisdictions	Category 2	C
Agency	Northern Territory	Aboriginal Areas Protection Authority	Responsible for overseeing the protection of Aboriginal sacred sites on land and sea across the whole of the NT. Limited to NT waters and sacred sites in the NT.	The authority has a function to oversee the protection of sacred sites. Can provide information on registered sacred sites within the PEZ.	Cultural heritage (sacred sites) in coastal areas both land (coastal) and sea	11A(1)(b)	NT government agency with a function to protect Aboriginal sacred sites on both land and sea that falls within the PEZ.	Category 2	C
Department	Northern Territory	Department of Territory Families, Housing and Communities - Heritage Branch	The Heritage branch works with the community to conserve the unique and diverse heritage of the Northern Territory. The branch supports the Heritage Council, provides advice about heritage management, promotes heritage and encourages good conservation practice, oversees the NT Heritage Grants Program and the Rates Relief Program, and works with other government departments to conserve Government-owned heritage assets.	Function is for the protection heritage (maritime and land) in the NT. Can provide information on known heritage places within the PEZ.	Cultural heritage places located within the PEZ.	11A(1)(b)	NT government agency with a function to protect heritage places located on both land and sea that falls within the PEZ.	Category 2	C
Authority	Northern Territory	Darwin Harbour Advisory Committee	The Darwin Harbour Advisory Committee provides advice to the Northern Territory (NT) Government through the Minister	Function to represent businesses that operate within	Darwin Harbour and catchment within the PEZ	11A(1)(e)	Represents businesses / environment that may operate in the PEZ	Category 2	C

Category	Jurisdiction/ location or activities	Relevant person	General description	Functions, activities or interests	Are there any environmental values in relation to the EP/PEZ that intersect a persons, organisations, departments or agency's functions, activities or interests?	Categorisation of relevant person under OPGGS (Environment) Regulation 11A(1)A	Basis of selection for relevant persons engagement during development of EP.	Category (1 to 3)	Consultation strategy level (A to D)
			for Environment, Parks and Water Security (the Minister) on the effective management of Darwin Harbour and its catchment.	PEZ, and environment within the PEZ.					
Department	Commonwealth	Department of Agriculture, Fisheries and Forestry (DAFF) - fisheries branch	Responsible for ensuring management processes are implemented, such as limits on catch or effort levels, and regulations of fishing methods to manage Australia's fisheries in a sustainable way.	Function is for the conservation of marine ecosystems and biodiversity that support commercially valuable fisheries resources.	Commonwealth fisheries and fish habitat.	11A(1)(a)	DAFF have advised they wish to be engaged where there is possible disruption to Commonwealth fisheries.	Category 2	C
Authority	Western Australia	Shire of Broome	Provision of public services and amenities in Broome and represents the communities in these areas.	Function is to represent community in areas that could be affected by emergency conditions.	Socio-economic values located in State Waters (WA) of the PEZ. Functions, interest or activities overlap the area of potential ecological impact and predicted shoreline contact >100g/m <sup>2</sup> (EMBA)*.	11A(1)(d)	Represents communities within the PEZ. Modelling indicates potential for shoreline contact within area of LGA. Area of long term INPEX operational presence.	Category 2	C
Authority	Western Australia	Shire of Derby - West Kimberley	Provision of public services and amenities in Derby/West Kimberley and represents the communities in these areas.	Function is to represent community in areas that could be affected by emergency conditions.	Socio-economic values located in State Waters (WA) of the PEZ. Functions, interest or activities overlap the area of potential ecological impact and predicted shoreline contact >100g/m <sup>2</sup> (EMBA)*.	11A(1)(d)	Represents communities within the PEZ. Modelling indicates potential for shoreline contact within area of LGA.	Category 2	C
Authority	Western Australia	Shire of Wyndham - East Kimberley	Provision of public services and amenities in area of Wyndham/East Kimberley and represents the communities in these areas.	Function is to represent community in areas that could be affected by emergency conditions.	Socio-economic values located in State Waters (WA) of the PEZ. Functions, interest or activities overlap the area of potential ecological impact and predicted shoreline contact >100g/m <sup>2</sup> (EMBA)*.	11A(1)(d)	Represents communities within the PEZ. Modelling indicates potential for shoreline contact within area of LGA.	Category 2	C
Authority	Northern Territory	Tiwi Islands Regional Council	Local government area serving Tiwi Islands.	Function is to represent community in areas that could be affected by emergency conditions.	Socio-economic values located in State Waters (NT) of the PEZ. Functions, interest or activities overlap the area of potential ecological impact and predicted shoreline contact >100g/m <sup>2</sup> (EMBA)*.	11A(1)(d)	Represents communities within the PEZ. Modelling indicates potential for shoreline contact within area of LGA.	Category 2	C
Authority	Northern Territory	West Daly Local Council	Local government area serving West Daly area.	Function is to represent community in areas that could be affected by emergency conditions.	Socio-economic values located in State Waters (NT) of the PEZ. Functions, interest or activities overlap the area of potential ecological impact and predicted shoreline contact >100g/m <sup>2</sup> (EMBA)*.	11A(1)(d)	Represents communities within the PEZ. Modelling indicates potential for shoreline contact within area of LGA.	Category 2	C
Authority	Christmas Island	Shire of Christmas Island	Local government area serving Christmas Island	Function is to represent community in areas that could be affected by emergency conditions.	Socioeconomic and cultural values within PEZ. Functions, interest or activities overlaps the area of PEZ only, no potential for ecological impact, low potential for socio-economic impacts or perception of these, and predicted shoreline contact >10g/m <sup>2</sup> *.	11A(1)(d)	Represents communities within the PEZ. Modelling indicates potential for shoreline contact within area of LGA.	Category 2	C

Category	Jurisdiction/ location or activities	Relevant person	General description	Functions, activities or interests	Are there any environmental values in relation to the EP/PEZ that intersect a persons, organisations, departments or agency's functions, activities or interests?	Categorisation of relevant person under OPGGS (Environment) Regulation 11A(1)A	Basis of selection for relevant persons engagement during development of EP.	Category (1 to 3)	Consultation strategy level (A to D)
Authority	Cocos (Keeling) Islands	Shire of Cocos (Keeling) Islands	Local government area serving Cocos (Keeling) Islands	Function is to represent community in areas that could be affected by emergency conditions.	Socioeconomic and cultural values within PEZ. Functions, interest or activities overlaps the area of PEZ only, no potential for ecological impact, low potential for socio-economic impacts or perception of these, and predicted shoreline contact >10g/m <sup>2</sup> *.	11A(1)(d)	Represents communities within the PEZ. Modelling indicates potential for shoreline contact within area of LGA.	Category 2	C
Authority	Western Australia	Shire of Port Hedland	Local government area serving Port Hedland	Interest if adjacent areas affected by emergency conditions.	Socio-economic values located in State Waters (WA) of the PEZ. Functions, interest or activities do not overlap with either PEZ, EMBA and no predicted shoreline contact.	11A(1)(e)	Represents communities adjacent to the PEZ.	Category 2	C
Authority	Western Australia	Shire of East Pilbara	Local government area serving East Pilbara region	Interest if adjacent areas affected by emergency conditions.	Socio-economic values located in State Waters (WA) of the PEZ. Functions, interest or activities do not overlap with either PEZ, EMBA and no predicted shoreline contact.	11A(1)(e)	Represents communities adjacent to the PEZ.	Category 2	C
Authority	Northern Territory	Victoria Daly Regional Council	Local government area divided into five wards: Pine Creek, Milngin, Timber Creek, Walangeri and Daguragu.	Interest if adjacent areas affected by emergency conditions.	Socio-economic values located in State Waters (NT) of the PEZ. Functions, interest or activities do not overlap with either PEZ, EMBA and no predicted shoreline contact.	11A(1)(e)	Represents communities adjacent to the PEZ. A number of relevant Aboriginal communities are within this LGA.	Category 2	A
Authority	Northern Territory	Belyuen Community Government Council	Local government provides services to the Belyuen Community which is located approximately 120km from Darwin on the Cox Peninsula.	Interest if adjacent areas affected by emergency conditions.	The Belyuen community on Cox Peninsula reside within this LGA. While the LGA boundary does not extend to entire Cox Peninsula, the LGA is first point of contact for this community which are the people of the Cox Peninsula. Functions, interest or activities do not overlap with either PEZ, EMBA and no predicted shoreline contact.	11A(1)(e)	Represents members of the Belyuen community within the PEZ.  While the LGA boundary does not extend to entire Cox Peninsula, the LGA is first point of contact for this Aboriginal community which are the people of the Cox Peninsula.	Category 2	A
ATSI community	Western Australia	Ardyaloon Incorporated	Ardyaloon Incorporated provide services and conduct programs to Aboriginal community members of One Arm Point (Ardyaloon)	Interest in land and sea country.	Cultural heritage in coastal areas and potential areas of sea country. Functions, interest or activities overlap the area of potential ecological impact and predicted shoreline contact >100g/m <sup>2</sup> (EMBA)*.	11A(1)(d)	Relevant persons with country overlapping the PEZ. Modelling indicates potential for shoreline contact.	Category 2	A
ATSI Representative Body	Western Australia	Balanggarra Aboriginal Corporation RNTBC	Holds on trust the native title rights and interests of Balanggarra Traditional Owners. The claim area covers country in the north Kimberley including the Wyndham township, Kalumburu, Oombulgurri and Forrest River Aboriginal reserves, Carson River pastoral lease, parts of the Drysdale River National Park and unallocated Crown land at Cape Londonderry, Carson River and the Cambridge Gulf Coast.	The function of the RNTBC is to represent Traditional Owners and hold native title trust. Jointly manage the North Kimberley Marine Park with WA Department of Biodiversity Conservation and Attractions (DBCA).	Cultural heritage in coastal areas and potential areas of sea country. Have responsibility for sea country within areas of the Joseph Bonaparte Gulf Marine Park and jointly manage the State North Kimberley Marine Park. Functions, interest or activities overlap the area of potential ecological impact and predicted shoreline contact >100g/m <sup>2</sup> (EMBA)*.	11A(1)(d)	The Balanggarra Aboriginal Corporation RNTBC represents the interests of Traditional Owners with country that overlaps the PEZ. Modelling indicates potential for shoreline contact.	Category 2	A

Category	Jurisdiction/ location or activities	Relevant person	General description	Functions, activities or interests	Are there any environmental values in relation to the EP/PEZ that intersect a persons, organisations, departments or agency's functions, activities or interests?	Categorisation of relevant person under OPGGS (Environment) Regulation 11A(1)A	Basis of selection for relevant persons engagement during development of EP.	Category (1 to 3)	Consultation strategy level (A to D)
ATSI Representative Body	Western Australia	Bardi and Jawi Niimidiman Aboriginal Corporation RNTBC	Recognised corporate body for Bardi and Jawi Traditional Owners, northern Dampier Peninsula. Residents of the Djarindjin Aboriginal community include Bardi & Jawi people captured by the Bardi and Jawi Niimidiman Aboriginal Corporation RNTBC.	The function of the RNTBC is to represent Traditional Owners and hold native title trust. Jointly manage the Bardi Jawi Gaarra Marine Park with WA DBCA.	Cultural heritage in coastal areas and potential areas of sea country. Have responsibility for sea country within the Kimberley MP and jointly manage the State Bardi Jawi Gaarra Marine Park. Functions, interest or activities overlap the area of potential ecological impact and predicted shoreline contact >100g/m <sup>2</sup> (EMBA)*.	11A(1)(d)	The Bardi and Jawi Niimidiman Aboriginal Corporation RNTBC represents the interests of Traditional Owners with country that overlaps the PEZ. Modelling indicates potential for shoreline contact.	Category 2	A
ATSI Representative Body	Northern Territory	Daly River / Port Keats Aboriginal Land Trust	Represent Traditional Owners in Daly River to the Fitzmaurice River 1. Batjamahl 2. Marrihiyel 3. Marriamu 4. Marritjaben 5. Yederr 6. Neninh Kuy 7. Kardu Thithay Diminin 8. Rak Kirnmu 9. Yek Maninh 10. Yek Nangu 11. Kardu Kura Thipmam	Function of the trust is to hold the title to Aboriginal Land, and act on the instructions of Aboriginal Land Councils. Interest in land and sea country.	Cultural heritage in coastal areas and potential areas of sea country. Functions, interest or activities overlap the area of potential ecological impact and predicted shoreline contact >100g/m <sup>2</sup> (EMBA)*.	11A(1)(d)	The Daly River/Port Keats Aboriginal Land Trust represents Traditional Owners with country that overlaps the PEZ. Modelling indicates potential for shoreline contact.	Category 2	A
ATSI Representative Body	Western Australia	Dambimangari Aboriginal Corporation	Represent Aboriginal people located in the North Kimberley region of Australia.	Interest in land and sea country. Activities include jointly managing the Lalang-garram/Horizontal Falls Marine Park, Lalang/garram/Camdern Sound Marine Park, North Lalang-garram Marine Park and Maiyalam Marine Park with WA DBCA.	Cultural heritage in coastal areas and potential areas of sea country. Have responsibility for sea country within the Kimberley MP and jointly manage the following State marine parks: Lalang-garram/Horizontal Falls, Lalang/garram/Camdern Sound, North Lalang-garram and Maiyalam. Functions, interest or activities overlap the area of potential ecological impact and predicted shoreline contact >100g/m <sup>2</sup> (EMBA)*.	11A(1)(d)	The Dambimangari Aboriginal Corporation represent relevant persons with country that overlaps the PEZ. Modelling indicates potential for shoreline contact.	Category 2	A
ATSI community	Northern Territory	Delissaville/ Wagait/Larrakia Aboriginal Land Trust	Represent Traditional Owners south of Bynoe Harbour to the north bank of the Daly River, including the Delissaville / Wagait / Larrakia Aboriginal Land Trust, and La Belle Downs and Litchfield Stations.  Mak Mak Maranunggu (White Eagle and Black Eagle) Some Belyuen Group members, particularly Wadjigiyn and Marritheyel Bulgul Land and Sea Rangers Bulgul Community (Wadjigiyn and Kiyuk)	Function of the trust is to hold the title to Aboriginal Land, and act on the instructions of Aboriginal Land Councils. Interest in land and sea country.	Cultural heritage in coastal areas and potential areas of sea country. Functions, interest or activities overlap the area of potential ecological impact and predicted shoreline contact >100g/m <sup>2</sup> (EMBA)*.	11A(1)(d)	The Delissaville/Wagait/Larrakia Aboriginal Land Trust represents Traditional Owners with country that overlaps the PEZ. Modelling indicates potential for shoreline contact.	Category 2	A

Category	Jurisdiction/ location or activities	Relevant person	General description	Functions, activities or interests	Are there any environmental values in relation to the EP/PEZ that intersect a persons, organisations, departments or agency's functions, activities or interests?	Categorisation of relevant person under OPGGS (Environment) Regulation 11A(1)A	Basis of selection for relevant persons engagement during development of EP.	Category (1 to 3)	Consultation strategy level (A to D)
ATSI community	Western Australia	Djarindjin Aboriginal Corporation	Djarindjin Aboriginal Corporation administers services on behalf of residents of Djarindjin Aboriginal community in addition to owning and operating the Djarindjin Airport. They are an INPEX contractor, and this group represents community interests rather than native title interests. Residents of the Djarindjin Aboriginal community include Bardi & Jawi people captured by the Bardi and Jawi Niimidiman Aboriginal Corporation RNTBC.	Interest in land and sea country. Have responsibility for sea country within the Kimberley MP.	Cultural heritage in coastal areas and potential areas of sea country. Have responsibility for sea country within the Kimberley MP. Functions, interest or activities overlap the area of potential ecological impact and predicted shoreline contact >100g/m <sup>2</sup> (EMBA)*.	11A(1)(d)	The Djarindjin Aboriginal Corporation represents relevant persons with country overlapping the PEZ. Modelling indicates potential for shoreline contact. Located in an area of long term INPEX operational presence.	Category 2	A
ATSI Representative Body	Western Australia	Gogolanyngor Aboriginal Corporation RNTBC	Registered native title body corporate for Jabirr Jabirr/Ngumbarl people of the middle Dampier Peninsula. Also part of Bindunbur claim for Jabirr Jabirr/Ngumbarl people.	The function of the RNTBC is to represent Traditional Owner's and hold native title trust.	Cultural heritage in coastal areas and potential areas of sea country. Functions, interest or activities overlaps the area of PEZ only, no potential for ecological impact, low potential for socio-economic impacts or perception of these, and predicted shoreline contact >10g/m <sup>2</sup> *.	11A(1)(d)	The Gogolanyngor Aboriginal Corporation RNTBC represents the interests of Traditional Owners with country that overlaps the PEZ. Modelling indicates potential for shoreline contact.	Category 2	A
ATSI Representative Body	Northern Territory	Gwalwa Daraniki Association Incorporated	Aboriginal Association that represents the Kalaluk people near Darwin.	Interest in adjacent land and sea country	Unknown extent of cultural heritage in coastal areas and potential areas of sea country. Geographically do not overlap with either PEZ, EMBA and no predicted shoreline contact.	11A(1)(e)	Relevant persons with country adjacent to the PEZ. Located in an area of long term INPEX operational presence.	Category 3	A
ATSI Representative Body	Western Australia	Karajarri Traditional Lands Association (Aboriginal Corporation) RNTBC	Registered native title body corporate for the Karajarri people; south of Broome.	The function of the RNTBC is to represent Traditional Owners and hold native title trust. Jointly manage an area of the Eighty Mile Beach Marine Park with WA Department of Biodiversity and Attractions.	Cultural heritage in coastal areas and potential areas of sea country. Responsibility for sea country in areas of the Eighty Mile Beach MP and jointly manage an area of the State Eighty Mile Beach Marine Park. Functions, interest or activities overlaps the area of PEZ only, no potential for ecological impact, low potential for socio-economic impacts or perception of these, and predicted shoreline contact >10g/m <sup>2</sup> *.	11A(1)(d)	The Karajarri Traditional Lands Association Aboriginal Corporation RNTBC represents the interests of Traditional Owners with country that overlaps the PEZ. Modelling indicates potential for shoreline contact.	Category 2	A
ATSI Representative Body	Northern Territory	Kenbi Aboriginal Land Trust	Cox Peninsula from Charles Point in the north to Bynoe Harbour in the south, including the islands and reefs to the west of the Cox Peninsula. Tommy Lyons Group descendants. Kenbi Rangers Belyuen Group: members of the following language groups resident at Belyuen community.	Function of the trust is to hold the title to Aboriginal Land, and act on the instructions of Aboriginal Land Councils. Interest in land and sea country.	Cultural heritage in coastal areas and potential areas of sea country. Functions, interest or activities overlaps the area of PEZ only, no potential for ecological impact, low potential for socio-economic impacts or perception of these, and predicted shoreline contact >10g/m <sup>2</sup> *.	11A(1)(d)	The Kenbi Aboriginal Land Trust represents relevant persons with country that overlaps the PEZ. Modelling indicates potential for shoreline contact. Located in an area of long term INPEX operational presence.	Category 2	A

Category	Jurisdiction/ location or activities	Relevant person	General description	Functions, activities or interests	Are there any environmental values in relation to the EP/PEZ that intersect a persons, organisations, departments or agency's functions, activities or interests?	Categorisation of relevant person under OPGGS (Environment) Regulation 11A(1)A	Basis of selection for relevant persons engagement during development of EP.	Category (1 to 3)	Consultation strategy level (A to D)
			1. Wadjigiyn 2. Kiyuk 3. Menthayenggal (Mentha) 4. Amiyenggal (Ami) 5. Marriamu 6. Marritjaben						
ATSI Representative Body	Western Australia	Kimberley Land Council (KLC)	The KLC is the peak Indigenous body in the Kimberley region working with Aboriginal people to secure native title, conduct conservation and land management activities and develop cultural business enterprises. Native title representative body out to the EEZ off the Kimberley coast.	The KLC are peak body and have a legislative function (Native Title Representative Body) to represent native title for Traditional Owners within the Kimberley region.	Cultural heritage in coastal areas and potential areas of sea country.	11A(1)(d)	The KLC represents the interests of Traditional Owners with country that overlaps the PEZ. Located in an area of long term INPEX operational presence.	Category 2	A
ATSI Representative Body	Northern Territory	Larrakia Development Corporation (LDC)	Responsible for creating economic opportunities for all Larrakia people through the creation and operation of sustainable businesses models, and the maintenance of the Larrakia Development Trust. Located near Darwin.	The function of the LDC is to represent the interests of Larrakia people	Cultural heritage in coastal areas and potential areas of sea country. Plus socio-economic interests for Aboriginal businesses. Functions, interest or activities overlap the area of potential ecological impact and predicted shoreline contact >100g/m <sup>2</sup> (EMBA)*.	11A(1)(d)	The LDC represents Larrakia people in an area that overlaps the PEZ. Modelling indicates potential for shoreline contact. Located in an area of long term INPEX operational presence.	Category 2	A
ATSI Representative Body	Northern Territory	Larrakia Nation Aboriginal Corporation (LNAC)	Set up in 1997 through the Northern Land Council to provide a corporate identity for Larrakia people to uphold Native Title claims. Cover social, community and local roles. Located near Darwin.	The function of the Larrakia Nation Aboriginal Corporation is to represent native title claims for Larrakia people	Cultural heritage in coastal areas and potential areas of sea country. Functions, interest or activities overlap the area of potential ecological impact and predicted shoreline contact >100g/m <sup>2</sup> (EMBA)*.	11A(1)(d)	The LNAC represents Larrakia people in an area that overlaps the PEZ. Modelling indicates potential for shoreline contact. Located in an area of long term INPEX operational presence.	Category 2	A
ATSI Representative Body	Western Australia	Lombadina Aboriginal Corporation	Responsible for the Lombadina community lease and represents all residents at the remote community. Represents Lombadina Community (Dampier Peninsula).	Responsible for the Lombadina community lease and function is to represent all residents in the Lombadina Community.	Cultural heritage in coastal areas and potential areas of sea country. Functions, interest or activities overlaps the area of PEZ only, no potential for ecological impact, low potential for socio-economic impacts or perception of these, and predicted shoreline contact >10g/m <sup>2</sup> *.	11A(1)(d)	The Lombadina Aboriginal Corporation represents relevant persons with country that overlaps the PEZ. Modelling indicates potential for shoreline contact.	Category 2	A
ATSI Representative Body	Western Australia	Mayala Inninalang Aboriginal Corporation RNTBC	Responsible for native title for the Mayala People, the Traditional Owners of the Buccaneer Archipelago and King Sound in the north-western Kimberley region of WA.	The function of the RNTBC is to represent Traditional Owners and hold native title trust. Jointly manage the Mayala Marine Park. with WA DBCA.	Cultural heritage in coastal areas and potential areas of sea country. Jointly manages the State Myala Marine Park. Functions, interest or activities overlap the area of potential ecological impact and predicted shoreline contact >100g/m <sup>2</sup> (EMBA)*.	11A(1)(d)	The Mayala Inninalang Aboriginal Corporation RNTBC represents the interests of Traditional Owners with country that overlaps the PEZ. Modelling indicates potential for shoreline contact.	Category 2	A
ATSI Representative Body	Western Australia	Miriuwung Gajerrong (MG) Aboriginal Corporation RNTBC	Represent Traditional Owners over large areas in the north Kimberley of WA's East Kimberley region.	Function is to represent Traditional Owners over large areas in the north Kimberley of WA's	Unknown extent of cultural heritage in coastal areas and potential areas of sea country. Have responsibility for sea country within areas of the Joseph Bonaparte Gulf MP. The PEZ intersects the NT component of the	11A(1)(e)	The MG Aboriginal Corporation RNTBC represents the interests of Traditional Owners with country adjacent to PEZ. Noting there is no shoreline contact predicted and the area of coastline is over 100 km	Category 3	A



Category	Jurisdiction/ location or activities	Relevant person	General description	Functions, activities or interests	Are there any environmental values in relation to the EP/PEZ that intersect a persons, organisations, departments or agency's functions, activities or interests?	Categorisation of relevant person under OPGGS (Environment) Regulation 11A(1)A	Basis of selection for relevant persons engagement during development of EP.	Category (1 to 3)	Consultation strategy level (A to D)
				East Kimberley region.	Joseph Bonaparte Gulf Marine Park, not the area adjacent to the country of the MG Corporation. Geographically do not overlap with either PEZ, EMBA and no predicted shoreline contact.		away from the PEZ boundary at the closest point. INPEX chose to identify as a relevant person as they are in proximity to other RNTBCs who overlap the PEZ.		
ATSI Representative Body	Western Australia	Nimanburr Aboriginal Corporation RNTBC	Registered native title body corporate for the Namanburr people. Also part of Bindunbur claim for Nimanburr people on Dampier Peninsula and King Sound.	Interest in adjacent land and sea country	Unknown extent of cultural heritage in coastal areas and potential areas of sea country. Geographically do not overlap with either PEZ, EMBA and no predicted shoreline contact.	11A(1)(e)	The Nimanburr Aboriginal Corporation RNTBC represents the interests of Traditional Owners with country adjacent to the PEZ.	Category 3	A
ATSI Representative Body	Northern Territory	Northern Australian Indigenous Sea Alliance (NAILSMA)	The North Australian Indigenous Land and Sea Management Alliance Ltd (NAILSMA) is an Indigenous led not-for-profit company operating across north Australia. Assists Indigenous people manage their country sustainably for future generations. Offices based in Darwin.	Function is to project manage and support many Traditional Owner groups and rangers to work on land and sea country.	NA - However, ranger groups that operate in the area may have values with PEZ.	11A(1)(e)	Relevant persons whose function may indirectly be impacted in emergency conditions.	Category 3	A
ATSI Representative Body	Northern Territory	Northern Land Council	Independent statutory authority of the Commonwealth responsible for assisting Aboriginal NT to acquire and manage their traditional lands and seas. The NLC is also the Native title Representative Body for the northern region - including the Tiwi Islands and Groote Eylandt. This includes land that does not fall under ALRA, such as crown land or other lands in towns, national parks, and land vested in the NT Land Corporation, pastoral leases and offshore areas. Relevant person in own right. Also represents the following groups: Jaminjung, Mak Mak Maranunggu, Wadiginy people, Finnis River people, Batjamalh, Emmiyangal, Mendheyangal peoples, Wulna, Konbudj, Limilngan people), Amarak and Ngamarak people, Iwaidja and Bulgul Land and Sea Rangers and Kenbi Rangers.	The NLC has statutory obligations under the Aboriginal Land Rights Act and the Native Title Act. The NLC is also authorised to perform functions under several NT laws. They also NLC administer a number of Ranger groups that manage land and sea country within or adjoining the PEZ.	Cultural heritage in coastal areas and potential areas of sea country.	11A(1)(d)	The NLC represents the interests of Traditional Owners with country that overlaps the PEZ. Located in an area of long term INPEX operational presence.	Category 2	A
ATSI Representative Body	Western Australia	Nyangumarta Karajarri Aboriginal Corporation RNTBC overlapping claim	Registered native title body corporate for the Nyangumarta Karajarri people: south of Broome.	The RNTBC represents Traditional Owners and hold native title trust and jointly manages an area of the Eighty Mile Beach Marine Park with WA DBCA.	Cultural heritage in coastal areas and potential areas of sea country. Responsibility for sea country in areas of the Eighty Mile Beach MP and jointly manage an area of the State Eighty Mile Beach Marine Park. Functions, interest or activities overlaps the area of PEZ only, no potential for ecological impact, low potential for socio-economic impacts	11A(1)(d)	The Nyangumarta Karajarri Aboriginal Corporation RNTBC represents the interests of Traditional Owners with country that overlaps the PEZ. Modelling indicates potential for shoreline contact.	Category 2	A

Category	Jurisdiction/ location or activities	Relevant person	General description	Functions, activities or interests	Are there any environmental values in relation to the EP/PEZ that intersect a persons, organisations, departments or agency's functions, activities or interests?	Categorisation of relevant person under OPGGS (Environment) Regulation 11A(1)A	Basis of selection for relevant persons engagement during development of EP.	Category (1 to 3)	Consultation strategy level (A to D)
					or perception of these, and predicted shoreline contact >10g/m <sup>2</sup> *.				
ATSI Representative Body	Western Australia	Nyangumarta Warrarn Aboriginal Corporation RNTBC	Registered native title body corporate for the Nyangumarta Warrarn people; near 80 mile beach.	The RNTBC represents Traditional Owners and hold native title trust and jointly manages an area of the Eighty Mile Beach Marine Park with WA DBCA.	Cultural heritage in coastal areas and potential areas of sea country. Responsibility for sea country in areas of the Eighty Mile Beach MP and jointly manage an area of the State Eighty Mile Beach Marine Park. Functions, interest or activities overlaps the area of PEZ only, no potential for ecological impact, low potential for socio-economic impacts or perception of these, and predicted shoreline contact >10g/m <sup>2</sup> *.	11A(1)(d)	The Nyangumarta Warrarn Aboriginal Corporation RNTBC represents the interests of Traditional Owners with country that overlaps the PEZ. Modelling indicates potential for shoreline contact.	Category 2	A
ATSI Representative Body	Western Australia	Nyul Nyul Aboriginal Corporation RNTBC	Registered native title body corporate for the Nyul Nyul people. As such the Corporation manages the Native Title Rights and Interests of the Nyul Nyul native title holders. (Beagle Bay, Lacapede Islands). Also part of Bindunbur claim for Nyul Nyul people.	The function of the RNTBC is to represent Traditional Owners and hold native title trust.	Cultural heritage in coastal areas and potential areas of sea country. Functions, interest or activities overlaps the area of PEZ only, no potential for ecological impact, low potential for socio-economic impacts or perception of these, and predicted shoreline contact >10g/m <sup>2</sup> *.	11A(1)(d)	The Nyul Nyul Aboriginal Corporation RNTBC represents the interests of Traditional Owners with country that overlaps the PEZ. Modelling indicates potential for shoreline contact.	Category 2	A
ATSI Representative Body	Northern Territory	Thamarrurr Development Corporation (TDC)	TDC is an organisation that represents the three major cultural groups Wangka, Lirrga and Tjanpa comprising 20 clan groups, including 11 saltwater clans, as above. Thamarrurr Land and Sea Rangers	The function of the TDC is to represent the interests of people in the Thamarrurr region. Interest in land and sea country.	Cultural heritage in coastal areas and potential areas of sea country. Functions, interest or activities overlap the area of potential ecological impact and predicted shoreline contact >100g/m <sup>2</sup> (EMBA)*.	11A(1)(d)	The Thamarrurr Development Corporation represents relevant persons with country that overlaps the PEZ. Modelling indicates potential for shoreline contact.	Category 2	A
ATSI individual	Northern Territory	Traditional owners of Spirit Hill Station and Legune Station – Gajerrong	Spirit Hill Station is on border of NT and WA (bordered by WA border to the west, Legune Station to the north, Victoria River to the north east, Bullo Station to the east and Newry Station as well as Keep River National Park to the south. Legune Station is close to the border of WA, approximately 130 km east of Kununurra.	Interest in land and sea country	Unknown extent of cultural heritage in coastal areas and potential areas of sea country. Geographically do not overlap with either PEZ, EMBA and no predicted shoreline contact.	11A(1)(e)	Traditional owners with country adjacent to PEZ. Noting there is no shoreline contact predicted and the area of coastline is over 60 km away from the PEZ boundary at the closest point.  The Gajerrong (saltwater people) were bought to INPEXs attention via consultation with the Daly River Port Keats Aboriginal Land Trust.	Category 2	A
ATSI individual	Northern Territory	Traditional owners of Bradshaw Field Training Area – Jaminjang, Ngaliwurru	Indigenous Land Use Agreement (ILUA) over the Bradshaw Field Training Area, Jaminjang are Traditional Owners for the coastal area between the Victoria River and the Fitzmaurice River	Interest in land and sea country	Unknown extent of cultural heritage in coastal areas and potential areas of sea country. Geographically do not overlap with either PEZ, EMBA and no predicted shoreline contact.	11A(1)(e)	Traditional owners with country adjacent to PEZ. Noting there is no shoreline contact predicted and the area of coastline is over 80 km away from the PEZ boundary at the closest point.  Jaminjng people were originally captured by INPEX under Daly River Port Keats Aboriginal Land Trust. The Ngaliwurru were bought to INPEXs attention via consultation	Category 2	A

Category	Jurisdiction/ location or activities	Relevant person	General description	Functions, activities or interests	Are there any environmental values in relation to the EP/PEZ that intersect a persons, organisations, departments or agency's functions, activities or interests?	Categorisation of relevant person under OPGGS (Environment) Regulation 11A(1)A	Basis of selection for relevant persons engagement during development of EP.	Category (1 to 3)	Consultation strategy level (A to D)
							with the Daly River Port Keats Aboriginal Land Trust, however INPEX has been advised by Victoria River Daly Council that the Ngaliwurru are Traditional Owners for Timber Creek (which is inland).		
ATSI Representative Body	Northern Territory	Tiwi Land Council	The TLC represents all Tiwi people in the protection of land, sea, and environment, and supports sustainable economic development to improve Tiwi lives through employment, income, education and health opportunities.	The function of the TLC is to represent the interests of people on the Tiwi Islands.	Cultural heritage in coastal areas and potential areas of sea country.	11A(1)(d)	The TLC represents the interests of Traditional Owners with country that overlaps the PEZ.	Category 2	A
ATSI individual	Northern Territory	Tiwi Traditional Owner #1 (TTO1)	Individual Traditional Owner on the Tiwi Islands represented by the Environmental Defender's Office (EDO)	Interest in land and sea country	Cultural heritage in coastal areas and potential areas of sea country.	11A(1)(d)	Through the Public Comment process for another INPEX EP, a Traditional Owner on the Tiwi Islands identified as a relevant person on the basis that they have an interest that could be affected by the proposed activity. Therefore INPEX has identified them as a relevant person for this EP also.	Category 2	A
ATSI Representative Body	Western Australia	Walalakoo Aboriginal Corporation RNTBC	Walalakoo Aboriginal Corporation represents the Nyikina Mangala and Booroola Moorrool Moorrool people of the Kimberley region in WA. Based in Derby.	Interest in adjacent land and sea country	Unknown extent of cultural heritage in coastal areas and potential areas of sea country. Geographically do not overlap with either PEZ, EMBA and no predicted shoreline contact.	11A(1)(e)	The Walalakoo Aboriginal Corporation RNTBC represents the interests of Traditional Owners with country adjacent to the PEZ.	Category 3	A
ATSI Representative Body	Western Australia	Wanparta Aboriginal Corporation RNTBC	Registered native title body corporate for the Ngarla people in Port Hedland/80 mile beach.	The RNTBC represents Traditional Owners and hold native title trust and jointly manages an area of the Eighty Mile Beach Marine Park with WA DBCA.	Responsibility for sea country in areas of the of Eighty Mile Beach MP (western area), and jointly manage an area (western area) of the State Eighty Mile Beach Marine Park. Geographically do not overlap with either PEZ, EMBA and no predicted shoreline contact; however, are in close proximity to areas that do.	11A(1)(d)	The Wanparta Aboriginal Corporation RNTBC represents the interests of Traditional Owners with country in close proximity (<25km) to the PEZ and shoreline contact.	Category 3	A
ATSI Representative Body	Western Australia	Warrwa Aboriginal Corporation RNTBC	Responsible for native title for the Warrwa people and are Traditional Owners of the of the Mowadjalla Gajidgar claim over Point Torment area (Derby area).	Interest in adjacent land and sea country	Unknown extent of cultural heritage in coastal areas and potential areas of sea country. Geographically do not overlap with either PEZ, EMBA and no predicted shoreline contact.	11A(1)(e)	The Warrwa Aboriginal Corporation RNTBC represents the interests of the Warrwa people with country adjacent to PEZ. There is no predicted shoreline contact for coastal areas relevant to this RNTBC and the PEZ boundary is approximately 100 km from Point Torment at its closest point. INPEX chose to identify as a relevant person as they are in proximity to other RNTBCs who overlap the PEZ.	Category 3	A
ATSI community	Northern Territory	Woolna (Wulna) people	Aboriginal people (consists of 3 main family groups) located near Adelaide River, north to Cape Hotham, west to Gunn Point, south to Manton Dam and eastwards as far as the Mary River floodplains.	Interest in adjacent land and sea country	Unknown extent of cultural heritage in coastal areas and potential areas of sea country. Geographically do not overlap with either PEZ, EMBA and no predicted shoreline contact.	11A(1)(e)	Adjacent to PEZ. Modelling predicted shoreline contact on coastal areas near Gunn Point, therefore INPEX chose to identify the Woolna people as relevant persons.	Category 3	A

Category	Jurisdiction/ location or activities	Relevant person	General description	Functions, activities or interests	Are there any environmental values in relation to the EP/PEZ that intersect a persons, organisations, departments or agency's functions, activities or interests?	Categorisation of relevant person under OPGGS (Environment) Regulation 11A(1)A	Basis of selection for relevant persons engagement during development of EP.	Category (1 to 3)	Consultation strategy level (A to D)
ATSI Representative Body	Western Australia	Wunambal Gaambera Aboriginal Corporation	Aboriginal people located in the North Kimberley region of Australia.. Represents the Wanjina Wunggurr community, comprising Unguu people. Located to the west of Kalumburu.	Function of the corporation is to represent the Wanjina Wunggurr community and their interests. Have responsibility for sea country within the Kimberley MP.	Cultural heritage in coastal areas and potential areas of sea country. Have responsibility for sea country within the Kimberley MP. Functions, interest or activities overlap the area of potential ecological impact and predicted shoreline contact >100g/m <sup>2</sup> (EMBA)*.	11A(1)(d)	The Wunambal Gaambera Aboriginal Corporation represents relevant persons with country that overlaps PEZ. Modelling indicates potential for shoreline contact.	Category 2	A
ATSI Representative Body	Western Australia	Yamatji Marlpa Aboriginal Corporation (YMAC)	Native title representative body for the Traditional Owners of the Pilbara, Murchison and Gascoyne regions of Western Australia. YMAC's land and sea management program encompasses a wide range of functions and activities. Covers a large region including Port Hedland, Karratha, Exmouth, Carnarvon and Geraldton.	Native title representative body for the Traditional Owners of the Pilbara, Murchison and Gascoyne regions of WA. YMAC's land and sea management program encompasses a wide range of functions and activities.	Gnulli Native Title Group represented by YMAC have responsibilities for sea country in the Gascoyne MP which marginally intersects the PEZ (this is due to one (1) of the 300 spill scenarios during summer only). Unknown extent of cultural heritage in coastal areas and potential areas of sea country for others represented by YMAC. With exception of the Gascoyne Marine Park, other areas do not geographically overlap with either PEZ, EMBA and there is no predicted shoreline contact.	11A(1)(d)	YMAC represents relevant persons which may have sea country interests adjacent to the offshore PEZ boundary.YMAC also represents the Gnulli Native Title Group who have responsibilities for sea country in the Gascoyne MP which marginally intersects the PEZ (one spill run).	Category 3	A
ATSI Representative Body	Western Australia	Yawuru Native Title Holders Aboriginal Corporation RNTBC	Registered native title body corporate for the Yawuru people in Broome area.	The function of the RNTBC is to represent Traditional Owners and hold native title trust. Jointly manage the Yawuru Nagulagun/ Roebuck Bay Marine Park with WA DBCA.	Cultural heritage in coastal areas and potential areas of sea country. Have responsibility for sea country within the Roebuck Bay MP and jointly manage the State Yawuru Nagulagun/Roebuck Bay Marine Park. Functions, interest or activities overlaps the area of PEZ only, no potential for ecological impact, low potential for socio-economic impacts or perception of these, and predicted shoreline contact >10g/m <sup>2</sup> *.	11A(1)(d)	The Yawuru Native Title Holders Aboriginal Corporation RNTBC represents the interests of Traditional Owners with country that overlaps the PEZ. Modelling indicates potential for shoreline contact.	Category 2	A
ATSI community	Western Australia	Ngarluma Aboriginal Corporation RNTBC	RNTBC for the Ngarluma Yindjibarndi community. Located around Karratha to Whim Creek area.	The function of the RNTBC is to represent Traditional Owners and hold native title trust for the Ngarluma Yindjibarndi community.	Unknown extent of cultural heritage in coastal areas and potential areas of sea country. Geographically do not overlap with either PEZ, EMBA and no predicted shoreline contact.	11A(1)(e)	The Ngarluma Aboriginal Corporation RNTBC represents the interests of the Ngarluma Yindjibarndi community who may have sea country interests adjacent to the offshore PEZ boundary. There is no predicted shoreline contact for coastal areas relevant to this RNTBC and the PEZ boundary is approximately 120 km away at its closest point.	Category 3	C
ATSI community	Western Australia	Murujuga Aboriginal Corporation	MAC comprises members from five traditional Aboriginal language groups: the Ngarluma, the Mardudhunera, the Yaburara, the Yindjibarndi, and the Wong-Goo-Tt-Oo. Located on and around Burrup Peninsula.	Aboriginal corporation with a function to hold freehold title to the on Murujuga National Park on	Unknown extent of cultural heritage in coastal areas and potential areas of sea country. Geographically do not overlap with either PEZ, EMBA and no predicted shoreline contact.	11A(1)(e)	Murujuga Aboriginal Corporation hold freehold title to Murujuga National Park and may have sea country interests adjacent to the offshore PEZ boundary. There is no predicted shoreline contact for coastal areas relevant to Aboriginal	Category 3	C

Category	Jurisdiction/ location or activities	Relevant person	General description	Functions, activities or interests	Are there any environmental values in relation to the EP/PEZ that intersect a persons, organisations, departments or agency's functions, activities or interests?	Categorisation of relevant person under OPGGS (Environment) Regulation 11A(1)A	Basis of selection for relevant persons engagement during development of EP.	Category (1 to 3)	Consultation strategy level (A to D)
				the Burrup Peninsula.			Corporation and the PEZ boundary is approximately 110 km away at its closest point.		
ATSI community	Western Australia	Wirrawandi Aboriginal Corporation RNTBC	RNTBC for the Yaburara and Mardudhunera People Icoated south of Karratha.	The function of the RNTBC is to represent Traditional Owners and hold native title trust for Yaburara and Mardudhunera communities.	Unknown extent of cultural heritage in coastal areas and potential areas of sea country. Geographically do not overlap with either PEZ, EMBA and no predicted shoreline contact.	11A(1)(e)	The Wirrawandi Aboriginal Corporation RNTBC represents the interests of the Yaburara and Mardudhunera communities who may have sea country interests adjacent to the offshore PEZ boundary. There is no predicted shoreline contact for coastal areas relevant to this RNTBC and the PEZ boundary is approximately 120 km away at its closest point.	Category 3	C
ATSI community	Western Australia	Nganhurra Thanardi Garrbu Aboriginal Corporation (via YMAC)	Represents Gnulli, Gnulli #2 and Gnulli #3 - Yinggarda, Baiyungu and Thalanyji People Includes Exmouth Peninsula to Lake McLeod.	The RNTBC represents Traditional Owners and hold native title trust and represents Gnulli, Yinggarda, Baiyungu and Thalanyji People	Yinggarda, Baiyungu and Thalanyjipeople (Gnulli Native Title Group) represented by Nganhurra Thanardi Garrbu Aboriginal Corporation have responsibilities for sea country in the Gascoyne MP which marginally intersects the PEZ (50km offshore, as a result of one (1) of the 300 spill scenarios during summer only). The Gnulli Native Title Group also jointly manage the State Ningaloo Marine Park, which does not intersect with the PEZ. With exception of the Gascoyne Marine Park, other areas do not geographically overlap with either PEZ, EMBA and there is no predicted shoreline contact.	11A(1)(e)	Nganhurra Thanardi Garrbu Aboriginal Corporation represent the Gnulli Native Title Group who have responsibilities for sea country in the Gascoyne MP which marginally intersects the PEZ (50km offshore, as a result of one (1) of the 300 spill scenarios during summer only). With exception of the Gascoyne Marine Park, other areas do not geographically overlap with either PEZ, EMBA and there is no predicted shoreline contact.	Category 3	C
ATSI Representative Body	Western Australia	Kariyarra Aboriginal Corporation	Responsible for managing the native title rights and interest on behalf of the Kariyarra People. Located in South Hedland.	Responsible for managing the native title rights and interest on behalf of the Kariyarra People.	Unknown extent of cultural heritage in coastal areas and potential areas of sea country. Geographically do not overlap with either PEZ, EMBA and no predicted shoreline contact.	11A(1)(e)	The Kariyarra Aboriginal Corporation represents the interests of the Karriyarra people who may have sea country interests adjacent to the offshore PEZ boundary. There is no predicted shoreline contact for coastal areas relevant to this Aboriginal Corporation and the PEZ boundary is approximately 140 km away at its closest point.	Category 3	C
ATSI community	Western Australia	Buurabalayji Thalanyji Aboriginal Corporation	RNTBC for the Thalanyji People; Onslow area.	The RNTBC represents Traditional Owners and hold native title trust and represents the Thalanyji People	Unknown extent of cultural heritage in coastal areas and potential areas of sea country. Geographically do not overlap with either PEZ, EMBA and no predicted shoreline contact.	11A(1)(e)	The Buurabalayji Thalanyji Aboriginal Corporation represents the interests of the Thalanyji people who may have sea country interests adjacent to the offshore PEZ boundary. There is no predicted shoreline contact for coastal areas relevant to this Aboriginal Corporation and the PEZ boundary is approximately 100 km away at its closest point.	Category 3	C

Category	Jurisdiction/ location or activities	Relevant person	General description	Functions, activities or interests	Are there any environmental values in relation to the EP/PEZ that intersect a persons, organisations, departments or agency's functions, activities or interests?	Categorisation of relevant person under OPGGS (Environment) Regulation 11A(1)A	Basis of selection for relevant persons engagement during development of EP.	Category (1 to 3)	Consultation strategy level (A to D)
Business	National (based in WA)	Vocus Communications	Own and manage the national subsea fibre network between Darwin and Port Hedland.	Business activities occurring in the marine environment or in coastal areas may be impacted by planned activities.	Potential economic impacts (loss of revenue) if infrastructure is damaged by planned activities.	11A(1)(d)	Subsea cables may traverse permit area where planned activities will occur.	Category 1	C
Business	Northern Territory	Alure Fishing Charters NT	Fishing charter based in Darwin, operating charters to Dundee Beach, Tiwi Islands, Bluewater and surrounds.	Business activities occurring in the marine environment or in coastal areas may be impacted by an oil spill	Potential economic impacts (loss of revenue) if excluded from area due to oil spill. Functions, interest or activities overlap the area of potential ecological impact and predicted shoreline contact >100g/m <sup>2</sup> (EMBA)*.	11A(1)(d)	Tourism activities that could be affected by emergency conditions. Located in an area of long term INPEX operational presence.	Category 2	C
Business	Northern Territory	Anglers Advantage Fishing Charters Darwin	Fishing charter based in Darwin, operating in and around Darwin Harbour.	Business activities occurring in the marine environment or in coastal areas may be impacted by an oil spill	Potential economic impacts (loss of revenue) if excluded from area due to oil spill. Functions, interest or activities do not overlap with either PEZ, EMBA and no predicted shoreline contact.	11A(1)(e)	Tourism activities that could be affected by emergency conditions. Located in an area of long term INPEX operational presence.	Category 2	C
Business	Northern Territory	Angler's Choice Fishing Safari	Fishing charters based at Dundee Beach.	Business activities occurring in the marine environment or in coastal areas may be impacted by an oil spill	Potential economic impacts (loss of revenue) if excluded from area due to oil spill. Functions, interest or activities overlaps the area of PEZ only, no potential for ecological impact, low potential for socio-economic impacts or perception of these, and predicted shoreline contact >10g/m <sup>2</sup> *.	11A(1)(d)	Tourism activities that could be affected by emergency conditions.	Category 2	C
Business	Northern Territory	Arafura Bluewater Charters	Fishing charter based in Darwin, operating charters to areas including Peron Islands, Cape Scott and Evans Shoals.	Business activities occurring in the marine environment or in coastal areas may be impacted by an oil spill	Potential economic impacts (loss of revenue) if excluded from area due to oil spill. Functions, interest or activities overlap the area of potential ecological impact and predicted shoreline contact >100g/m <sup>2</sup> (EMBA)*.	11A(1)(d)	Tourism activities that could be affected by emergency conditions. Located in an area of long term INPEX operational presence.	Category 2	C
Business	Northern Territory	Barra Or Blue Fishing Charters	Fishing charter based in Darwin, operating up to 200km radius from Darwin.	Business activities occurring in the marine environment or in coastal areas may be impacted by an oil spill	Potential economic impacts (loss of revenue) if excluded from area due to oil spill. Functions, interest or activities overlap the area of potential ecological impact and predicted shoreline contact >100g/m <sup>2</sup> (EMBA)*.	11A(1)(d)	Tourism activities that could be affected by emergency conditions. Located in an area of long term INPEX operational presence.	Category 2	C
Business	Northern Territory	Cullen Bay Fishing Charters	Fishing charter based in Darwin, operating up to 75km from Darwin.	Business activities occurring in the marine environment or in coastal areas may be impacted by an oil spill	Potential economic impacts (loss of revenue) if excluded from area due to oil spill. Functions, interest or activities overlap the area of potential ecological impact and predicted shoreline contact >100g/m <sup>2</sup> (EMBA)*.	11A(1)(d)	Tourism activities that could be affected by emergency conditions. Located in an area of long term INPEX operational presence.	Category 2	C
Business	Northern Territory	Darwin Barra Fishing Tours	Fishing charter based in Darwin, operating in areas including Bynoe Harbour, Dundee Beach and Daly River.	Business activities occurring in the marine environment or in coastal areas may	Potential economic impacts (loss of revenue) if excluded from area due to oil spill. Functions, interest or activities overlaps the area of PEZ only, no potential for ecological	11A(1)(d)	Tourism activities that could be affected by emergency conditions. Located in an area of long term INPEX operational presence.	Category 2	C

Category	Jurisdiction/ location or activities	Relevant person	General description	Functions, activities or interests	Are there any environmental values in relation to the EP/PEZ that intersect a persons, organisations, departments or agency's functions, activities or interests?	Categorisation of relevant person under OPGGS (Environment) Regulation 11A(1)A	Basis of selection for relevant persons engagement during development of EP.	Category (1 to 3)	Consultation strategy level (A to D)
				be impacted by an oil spill	impact, low potential for socio-economic impacts or perception of these, and predicted shoreline contact >10g/m <sup>2</sup> *.				
Business	Northern Territory	Darwin Fishseeker Charters	Fishing charter based in Darwin, operating in and around Darwin and Bynoe Harbour.	Business activities occurring in the marine environment or in coastal areas may be impacted by an oil spill	Potential economic impacts (loss of revenue) if excluded from area due to oil spill. Functions, interest or activities overlaps the area of PEZ only, no potential for ecological impact, low potential for socio-economic impacts or perception of these, and predicted shoreline contact >10g/m <sup>2</sup> *.	11A(1)(d)	Tourism activities that could be affected by emergency conditions. Located in an area of long term INPEX operational presence.	Category 2	C
Business	Northern Territory	Darwin Harbour Fishing Charters	Fishing charter based in Darwin, operating in and around Darwin Harbour.	Business activities occurring in the marine environment or in coastal areas may be impacted by an oil spill	Potential economic impacts (loss of revenue) if excluded from area due to oil spill. Functions, interest or activities do not overlap with either PEZ, EMBA and no predicted shoreline contact.	11A(1)(e)	Tourism activities that could be affected by emergency conditions. Located in an area of long term INPEX operational presence.	Category 2	C
Business	Northern Territory	Darwin Red Devil Fishing Charters	Fishing charter based in Darwin, operating in and around Darwin area and charters to Bass Reef and Lorna Shoals.	Business activities occurring in the marine environment or in coastal areas may be impacted by an oil spill	Potential economic impacts (loss of revenue) if excluded from area due to oil spill. Functions, interest or activities overlaps the area of PEZ only, no potential for ecological impact, low potential for socio-economic impacts or perception of these, and predicted shoreline contact >10g/m <sup>2</sup> *.	11A(1)(d)	Tourism activities that could be affected by emergency conditions. Located in an area of long term INPEX operational presence.	Category 2	C
Business	Northern Territory	DNA Barra Fishing, Darwin	Fishing charter based in Darwin, operating in and around Darwin Harbour.	Business activities occurring in the marine environment or in coastal areas may be impacted by an oil spill	Potential economic impacts (loss of revenue) if excluded from area due to oil spill. Functions, interest or activities do not overlap with either PEZ, EMBA and no predicted shoreline contact.	11A(1)(e)	Tourism activities that could be affected by emergency conditions. Located in an area of long term INPEX operational presence.	Category 2	C
Business	Northern Territory	Dundee Beach Fishing Charters	Fishing charter based at Dundee Beach, operating in areas including Perron Islands, Bateman Shoals, Fog Bay and Finniss River.	Business activities occurring in the marine environment or in coastal areas may be impacted by an oil spill	Potential economic impacts (loss of revenue) if excluded from area due to oil spill. Functions, interest or activities overlap the area of potential ecological impact and predicted shoreline contact >100g/m <sup>2</sup> (EMBA)*.	11A(1)(d)	Tourism activities that could be affected by emergency conditions.	Category 2	C
Business	Northern Territory	Equinox Fishing Charters	Fishing charter based in Darwin, operating in areas including Tiwi Islands, Bass Reef and Perron Islands.	Business activities occurring in the marine environment or in coastal areas may be impacted by an oil spill	Potential economic impacts (loss of revenue) if excluded from area due to oil spill. Functions, interest or activities overlap the area of potential ecological impact and predicted shoreline contact >100g/m <sup>2</sup> (EMBA)*.	11A(1)(d)	Tourism activities that could be affected by emergency conditions. Located in an area of long term INPEX operational presence.	Category 2	C
Business	Northern Territory	Estuary Escapes Fishing Charters	Fishing charter based in Darwin, operating in and around Darwin Harbour.	Business activities occurring in the marine environment or in coastal areas may	Potential economic impacts (loss of revenue) if excluded from area due to oil spill. Functions, interest or activities do not overlap with either PEZ, EMBA and no predicted shoreline contact.	11A(1)(e)	Tourism activities that could be affected by emergency conditions. Located in an area of long term INPEX operational presence.	Category 2	C

Category	Jurisdiction/ location or activities	Relevant person	General description	Functions, activities or interests	Are there any environmental values in relation to the EP/PEZ that intersect a persons, organisations, departments or agency's functions, activities or interests?	Categorisation of relevant person under OPGGS (Environment) Regulation 11A(1)A	Basis of selection for relevant persons engagement during development of EP.	Category (1 to 3)	Consultation strategy level (A to D)
				be impacted by an oil spill					
Business	Northern Territory	Fish The Top End	Fishing charter based in Darwin, operating in areas including Tiwi Islands and Dundee Beach.	Business activities occurring in the marine environment or in coastal areas may be impacted by an oil spill	Potential economic impacts (loss of revenue) if excluded from area due to oil spill. Functions, interest or activities overlap the area of potential ecological impact and predicted shoreline contact >100g/m <sup>2</sup> (EMBA)*.	11A(1)(d)	Tourism activities that could be affected by emergency conditions. Located in an area of long term INPEX operational presence.	Category 2	C
Business	Northern Territory	FNA Sports Fishing	Fishing charter based in Darwin, operating in areas including Darwin and Dundee Beach.	Business activities occurring in the marine environment or in coastal areas may be impacted by an oil spill	Potential economic impacts (loss of revenue) if excluded from area due to oil spill. Functions, interest or activities overlaps the area of PEZ only, no potential for ecological impact, low potential for socio- economic impacts or perception of these, and predicted shoreline contact >10g/m <sup>2</sup> *.	11A(1)(d)	Tourism activities that could be affected by emergency conditions. Located in an area of long term INPEX operational presence.	Category 2	C
Business	Northern Territory	Humbug Fishing	Fishing charter based in Darwin, operating in areas including the Kimberleys, Timor Box and Peron Islands.	Business activities occurring in the marine environment or in coastal areas may be impacted by an oil spill	Potential economic impacts (loss of revenue) if excluded from area due to oil spill. Functions, interest or activities overlap the area of potential ecological impact and predicted shoreline contact >100g/m <sup>2</sup> (EMBA)*.	11A(1)(d)	Tourism activities that could be affected by emergency conditions. Located in an area of long term INPEX operational presence.	Category 2	C
Business	Northern Territory	Munupi Wilderness Lodge	Tourism accommodation and fishing charter based on Melville Island (Tiwi Islands).	Business activities (beach camping) occurring in the marine environment or in coastal areas may be impacted by an oil spill	Potential economic impacts (loss of revenue) if excluded from area due to oil spill. Functions, interest or activities overlap the area of potential ecological impact and predicted shoreline contact >100g/m <sup>2</sup> (EMBA)*.	11A(1)(d)	Tourism activities that could be affected by emergency conditions.	Category 2	C
Business	Northern Territory	Obsession Fishing Safaris	Fishing charter based in Darwin, operating in NT west coast.	Business activities occurring in the marine environment or in coastal areas may be impacted by an oil spill	Potential economic impacts (loss of revenue) if excluded from area due to oil spill. Functions, interest or activities overlaps the area of PEZ only, no potential for ecological impact, low potential for socio- economic impacts or perception of these, and predicted shoreline contact >10g/m <sup>2</sup> *.	11A(1)(d)	Tourism activities that could be affected by emergency conditions. Located in an area of long term INPEX operational presence.	Category 2	C
Business	Northern Territory	Offshore Boats - Darwin Reef & Sport Fishing Charters	Fishing charter based in Darwin, operating in areas including offshore Darwin, Dundee Beach, Tiwi Islands and Vernon Islands.	Business activities occurring in the marine environment or in coastal areas may be impacted by an oil spill	Potential economic impacts (loss of revenue) if excluded from area due to oil spill. Functions, interest or activities overlap the area of potential ecological impact and predicted shoreline contact >100g/m <sup>2</sup> (EMBA)*.	11A(1)(d)	Tourism activities that could be affected by emergency conditions. Located in an area of long term INPEX operational presence.	Category 2	C
Business	Northern Territory	Reel Screamin Barra Fishing	Fishing charter based in Darwin, operating in and around Darwin Harbour and coast, including Bynoe Harbour.	Business activities occurring in the marine environment or in coastal areas may	Potential economic impacts (loss of revenue) if excluded from area due to oil spill. Functions, interest or activities overlaps the area of PEZ only, no potential for ecological	11A(1)(d)	Tourism activities that could be affected by emergency conditions. Located in an area of long term INPEX operational presence.	Category 2	C



Category	Jurisdiction/ location or activities	Relevant person	General description	Functions, activities or interests	Are there any environmental values in relation to the EP/PEZ that intersect a persons, organisations, departments or agency's functions, activities or interests?	Categorisation of relevant person under OPGGS (Environment) Regulation 11A(1)A	Basis of selection for relevant persons engagement during development of EP.	Category (1 to 3)	Consultation strategy level (A to D)
				be impacted by an oil spill	impact, low potential for socio-economic impacts or perception of these, and predicted shoreline contact >10g/m <sup>2</sup> *.				
Business	Northern Territory	Shoal Bay Sportfishing Tours	Fishing charter based in Darwin, operating in and around Darwin area. Fishing area includes Hope Inlet, King Creek, Meckit Creek and Buffalo Crteek and creeks along Gunn Point.	Business activities occurring in the marine environment or in coastal areas may be impacted by an oil spill	Potential economic impacts (loss of revenue) if excluded from area due to oil spill. Functions, interest or activities do not overlap with either PEZ, EMBA and no predicted shoreline contact.	11A(1)(e)	Tourism activities that could be affected by emergency conditions. Located in an area of long term INPEX operational presence.	Category 2	C
Business	Northern Territory	Spring Tide Safaris	Fishing charter based in Darwin, operating in areas including Darwin Harbour, Dundee Beach and Moyle River.	Business activities occurring in the marine environment or in coastal areas may be impacted by an oil spill	Potential economic impacts (loss of revenue) if excluded from area due to oil spill. Functions, interest or activities overlaps the area of PEZ only, no potential for ecological impact, low potential for socio-economic impacts or perception of these, and predicted shoreline contact >10g/m <sup>2</sup> *.	11A(1)(d)	Tourism activities that could be affected by emergency conditions. Located in an area of long term INPEX operational presence.	Category 2	C
Business	Northern Territory	Territory Guided Fishing	Fishing charter based in Darwin, operating in 200km radius from Darwin.	Business activities occurring in the marine environment or in coastal areas may be impacted by an oil spill	Potential economic impacts (loss of revenue) if excluded from area due to oil spill. Functions, interest or activities overlap the area of potential ecological impact and predicted shoreline contact >100g/m <sup>2</sup> (EMBA)*.	11A(1)(d)	Tourism activities that could be affected by emergency conditions. Located in an area of long term INPEX operational presence.	Category 2	C
Business	Northern Territory	Tiwi Island Adventures - fishing	Fishing charter located on Melville Island (Tiwi Islands) and fishing occurs around the island.	Business activities occurring in the marine environment or in coastal areas may be impacted by an oil spill	Potential economic impacts (loss of revenue) if excluded from area due to oil spill. Functions, interest or activities overlap the area of potential ecological impact and predicted shoreline contact >100g/m <sup>2</sup> (EMBA)*.	11A(1)(d)	Tourism activities that could be affected by emergency conditions.	Category 2	C
Business	Northern Territory	Top End Barra Fishing Tours	Fishing charter based in Darwin, operating in areas including Darwin Harbour, Dundee Beach and Bynoe Harbour.	Business activities occurring in the marine environment or in coastal areas may be impacted by an oil spill	Potential economic impacts (loss of revenue) if excluded from area due to oil spill. Functions, interest or activities overlaps the area of PEZ only, no potential for ecological impact, low potential for socio-economic impacts or perception of these, and predicted shoreline contact >10g/m <sup>2</sup> *.	11A(1)(d)	Tourism activities that could be affected by emergency conditions. Located in an area of long term INPEX operational presence.	Category 2	C
Business	Northern Territory	Top End Seafaris	Fishing charter based in Darwin, operating in areas in and around Darwin, Tiwi Islands and Moyle River.	Business activities occurring in the marine environment or in coastal areas may be impacted by an oil spill	Potential economic impacts (loss of revenue) if excluded from area due to oil spill. Functions, interest or activities overlap the area of potential ecological impact and predicted shoreline contact >100g/m <sup>2</sup> (EMBA)*.	11A(1)(d)	Tourism activities that could be affected by emergency conditions. Located in an area of long term INPEX operational presence.	Category 2	C
Business	Northern Territory	Tourism Top End Visitor Information Centre	A non-government, not-for-profit organisation that supports business members to promote tourism.	Function is to assist members to promote tourism activities within the PEZ	Potential economic impacts to members (loss of revenue) if excluded from area due to oil spill.	11A(1)(d)	Tourism activities provided by members could be affected by emergency conditions. Located in an area of long term INPEX operational presence. Visitors Centres may assist INPEX in identification of	Category 2	C

Category	Jurisdiction/ location or activities	Relevant person	General description	Functions, activities or interests	Are there any environmental values in relation to the EP/PEZ that intersect a persons, organisations, departments or agency's functions, activities or interests?	Categorisation of relevant person under OPGGS (Environment) Regulation 11A(1)A	Basis of selection for relevant persons engagement during development of EP.	Category (1 to 3)	Consultation strategy level (A to D)
							potentially relevant persons within region.		
Business	Northern Territory	Vision Sport Fishing, Darwin Barra Fishing Charters	Fishing charter based in Darwin, operating in areas including Dundee Beach and Bynoe Harbour.	Business activities occurring in the marine environment or in coastal areas may be impacted by an oil spill	Potential economic impacts (loss of revenue) if excluded from area due to oil spill. Functions, interest or activities overlaps the area of PEZ only, no potential for ecological impact, low potential for socio-economic impacts or perception of these, and predicted shoreline contact >10g/m <sup>2</sup> .	11A(1)(d)	Tourism activities that could be affected by emergency conditions. Located in an area of long term INPEX operational presence.	Category 2	C
Business	Northern Territory	Yknot Fishing Charters	Fishing charter based in Darwin, operating in areas including Darwin and Dundee Beach.	Business activities occurring in the marine environment or in coastal areas may be impacted by an oil spill	Potential economic impacts (loss of revenue) if excluded from area due to oil spill. Functions, interest or activities overlaps the area of PEZ only, no potential for ecological impact, low potential for socio-economic impacts or perception of these, and predicted shoreline contact >10g/m <sup>2</sup> *.	11A(1)(d)	Tourism activities that could be affected by emergency conditions. Located in an area of long term INPEX operational presence.	Category 2	C
Business	Northern Territory	Sea Darwin	Fishing charter based in Darwin, operating in areas including Darwin and Dundee Beach.	Business activities occurring in the marine environment or in coastal areas may be impacted by an oil spill	Potential economic impacts (loss of revenue) if excluded from area due to oil spill. Functions, interest or activities overlaps the area of PEZ only, no potential for ecological impact, low potential for socio-economic impacts or perception of these, and predicted shoreline contact >10g/m <sup>2</sup> *.	11A(1)(d)	Tourism activities that could be affected by emergency conditions. Located in an area of long term INPEX operational presence.	Category 2	C
Business	Northern Territory	Darwin Harbour Cruises	Tourism operator offering cruises within Darwin Harbour.	Business activities occurring in the marine environment or in coastal areas may be impacted by an oil spill	Potential economic impacts (loss of revenue) if excluded from area due to oil spill. Functions, interest or activities do not overlap with either PEZ, EMBA and no predicted shoreline contact.	11A(1)(e)	Tourism activities that could be affected by emergency conditions. Located in an area of long term INPEX operational presence.	Category 2	C
Business	Northern Territory	Sail Darwin	Tourism operator offering cruises within Darwin Harbour.	Business activities occurring in the marine environment or in coastal areas may be impacted by an oil spill	Potential economic impacts (loss of revenue) if excluded from area due to oil spill. Functions, interest or activities do not overlap with either PEZ, EMBA and no predicted shoreline contact.	11A(1)(e)	Tourism activities that could be affected by emergency conditions. Located in an area of long term INPEX operational presence.	Category 2	C
Business	Northern Territory	Streeter Cruises	Tourism operator offering cruises within Darwin Harbour.	Business activities occurring in the marine environment or in coastal areas may be impacted by an oil spill	Potential economic impacts (loss of revenue) if excluded from area due to oil spill. Functions, interest or activities do not overlap with either PEZ, EMBA and no predicted shoreline contact.	11A(1)(e)	Tourism activities that could be affected by emergency conditions. Located in an area of long term INPEX operational presence.	Category 2	C
Business	Western Australia	Absolute Ocean Charters	Broome based tourism operator offering fishing charters (Middle Lagoon, Lacepede Islands and Cape Leveque), whale	Business activities occurring in the marine environment or in	Potential economic impacts (loss of revenue) if excluded from area due to oil spill. Functions, interest or activities overlap the area of	11A(1)(d)	Tourism activities that could be affected by emergency conditions. Located in an area of long term INPEX operational presence.	Category 2	C

Category	Jurisdiction/ location or activities	Relevant person	General description	Functions, activities or interests	Are there any environmental values in relation to the EP/PEZ that intersect a persons, organisations, departments or agency's functions, activities or interests?	Categorisation of relevant person under OPGGS (Environment) Regulation 11A(1)A	Basis of selection for relevant persons engagement during development of EP.	Category (1 to 3)	Consultation strategy level (A to D)
			watching and sunset cruises off Broome.	coastal areas may be impacted by an oil spill	potential ecological impact and predicted shoreline contact >100g/m <sup>2</sup> (EMBA)*.				
Business	Western Australia	Berkeley River Lodge	Coastal tourism accommodation on north east Kimberley Coast between Kununurra and Darwin.	Business activities (beach camping) occurring in the marine environment or in coastal areas may be impacted by an oil spill	Potential economic impacts (loss of revenue) if coastal areas (sandy beaches) are impacted by an oil spill. Functions, interest or activities do not overlap with either PEZ, EMBA and no predicted shoreline contact.	11A(1)(e)	Tourism activities that could be affected by emergency conditions.	Category 2	C
Business	Western Australia	Broome Adventure Company - Turtle Kayak	Broome based tourism operator, operates kayak tours directly off Broome coast.	Business activities (tours) occurring in the marine environment or in coastal areas may be impacted by an oil spill	Potential economic impacts (loss of revenue) if excluded from area due to oil spill. Functions, interest or activities overlaps the area of PEZ only, no potential for ecological impact, low potential for socio-economic impacts or perception of these, and predicted shoreline contact >10g/m <sup>2</sup> *.	11A(1)(d)	Tourism activities that could be affected by emergency conditions. Located in an area of long term INPEX operational presence.	Category 2	C
Business	Western Australia	Broome Billfish Charters	Broome based fishing charter, operating off the Broome coast.	Business activities occurring in the marine environment or in coastal areas may be impacted by an oil spill	Potential economic impacts (loss of revenue) if excluded from area due to oil spill. Functions, interest or activities overlaps the area of PEZ only, no potential for ecological impact, low potential for socio-economic impacts or perception of these, and predicted shoreline contact >10g/m <sup>2</sup> *.	11A(1)(d)	Tourism activities that could be affected by emergency conditions. Located in an area of long term INPEX operational presence.	Category 2	C
Business	Western Australia	Broome Bird Observatory	The Broome Bird Observatory (BBO) is located 10km out of Broome on the coast.	Business activities (tours) occurring in the marine environment or in coastal areas may be impacted by an oil spill	Potential economic impacts (loss of revenue) if coastal areas (sandy beaches) are impacted by an oil spill. Functions, interest or activities do not overlap with either PEZ, EMBA and no predicted shoreline contact.	11A(1)(e)	Tourism activities that could be affected by emergency conditions. Located in an area of long term INPEX operational presence.	Category 2	C
Business	Western Australia	Broome Coast Charters	Broome based fishing charter, operating off the Broome coast.	Business activities occurring in the marine environment or in coastal areas may be impacted by an oil spill	Potential economic impacts (loss of revenue) if excluded from area due to oil spill. Functions, interest or activities overlaps the area of PEZ only, no potential for ecological impact, low potential for socio-economic impacts or perception of these, and predicted shoreline contact >10g/m <sup>2</sup> *.	11A(1)(d)	Tourism activities that could be affected by emergency conditions. Located in an area of long term INPEX operational presence.	Category 2	C
Business	Western Australia	Broome Visitors Centre	A non-government, not-for-profit organisation that supports business members to promote tourism.	Function is to assist members to promote tourism activities within the PEZ	Potential economic impacts to members (loss of revenue) if excluded from area due to oil spill.	11A(1)(d)	Tourism activities provided by members could be affected by emergency conditions. Located in an area of long term INPEX operational presence. Visitors Centres may assist INPEX in identification of potentially relevant persons within region.	Category 2	C

Category	Jurisdiction/ location or activities	Relevant person	General description	Functions, activities or interests	Are there any environmental values in relation to the EP/PEZ that intersect a persons, organisations, departments or agency's functions, activities or interests?	Categorisation of relevant person under OPGGS (Environment) Regulation 11A(1)A	Basis of selection for relevant persons engagement during development of EP.	Category (1 to 3)	Consultation strategy level (A to D)
Business	Western Australia	Port Hedland Visitors Centre	A non-government, not-for-profit organisation that supports business members to promote tourism.	Function is to assist members to promote tourism activities within the PEZ	Potential economic impacts to members (loss of revenue) if excluded from area due to oil spill.	11A(1)(d)	Tourism activities provided by members could be affected by emergency conditions. Visitors Centres may assist INPEX in identification of potentially relevant persons within region.	Category 2	C
Business	Western Australia	Kununurra Visitors Centre	A non-government, not-for-profit organisation that supports business members to promote tourism.	Function is to assist members to promote tourism activities within the PEZ	Potential economic impacts to members (loss of revenue) if excluded from area due to oil spill.	11A(1)(d)	Tourism activities provided by members could be affected by emergency conditions. Visitors Centres may assist INPEX in identification of potentially relevant persons within region.	Category 2	C
Business	Western Australia	Eco Beach Resort	Tourism accommodation located on the coast between 130km south of Broome.	Business activities (beach camping) occurring in the marine environment or in coastal areas may be impacted by an oil spill	Potential economic impacts (loss of revenue) if coastal areas (sandy beaches) are impacted by an oil spill. Functions, interest or activities do not overlap with either PEZ, EMBA and no predicted shoreline contact.	11A(1)(e)	Tourism activities that could be affected by emergency conditions.	Category 2	C
Business	Western Australia	Eighty Mile Beach Caravan Park	Tourism accommodation located on the coast between Port Hedland and Broome.	Business activities (beach camping) occurring in the marine environment or in coastal areas may be impacted by an oil spill	Potential economic impacts (loss of revenue) if coastal areas (sandy beaches) are impacted by an oil spill. Functions, interest or activities overlaps the area of PEZ only, no potential for ecological impact, low potential for socio-economic impacts or perception of these, and predicted shoreline contact >10g/m <sup>2</sup> *.	11A(1)(d)	Tourism activities that could be affected by emergency conditions. Modelling indicates potential for shoreline contact.	Category 2	C
Business	Western Australia	Faraway Bay Wilderness Retreat	Tourism accommodation located on the coast 280km north west of Kununurra.	Business activities (beach camping) occurring in the marine environment or in coastal areas may be impacted by an oil spill	Potential economic impacts (loss of revenue) if excluded from area due to oil spill. Functions, interest or activities do not overlap with either PEZ, EMBA and no predicted shoreline contact.	11A(1)(e)	Tourism activities that could be affected by emergency conditions.	Category 2	C
Business	Western Australia	Goobaragin Eco Retreat	Tourism accommodation located on coast at Pender Bay on Dampier Peninsula. First Nations business.	Business activities (beach camping) occurring in the marine environment or in coastal areas may be impacted by an oil spill	Potential economic impacts (loss of revenue) if excluded from area due to oil spill. Functions, interest or activities overlaps the area of PEZ only, no potential for ecological impact, low potential for socio-economic impacts or perception of these, and predicted shoreline contact >10g/m <sup>2</sup> *.	11A(1)(d)	Tourism activities that could be affected by emergency conditions. Modelling indicates potential for shoreline contact.	Category 2	C
Business	Western Australia	Gumbanan Wilderness Retreat	Tourism accommodation located on north east tip of Dampier Peninsula. First Nations business.	Business activities (beach camping) occurring in the marine environment or in coastal areas may be impacted by an oil spill	Potential economic impacts (loss of revenue) if excluded from area due to oil spill. Functions, interest or activities overlap the area of potential ecological impact and predicted shoreline contact >100g/m <sup>2</sup> (EMBA)*.	11A(1)(d)	Tourism activities that could be affected by emergency conditions. Modelling indicates potential for shoreline contact.	Category 2	C

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Business	Western Australia	Kimberley Coastal Camp	Tourism accommodation located on the coast of Admiralty Gulf, near Mitchell Plateau.	Business activities (beach camping) occurring in the marine environment or in coastal areas may be impacted by an oil spill	Potential economic impacts (loss of revenue) if excluded from area due to oil spill. Functions, interest or activities do not overlap with either PEZ, EMBA and no predicted shoreline contact.	11A(1)(e)	Tourism activities that could be affected by emergency conditions.	Category 2	C
Business	Western Australia	Kimberley Pearl Charters	Tourism operator offering charters based out of Broome to Wyndham and Cygnet Bay.	Business activities occurring in the marine environment or in coastal areas may be impacted by an oil spill	Potential economic impacts (loss of revenue) if excluded from area due to oil spill. Functions, interest or activities overlap the area of potential ecological impact and predicted shoreline contact >100g/m <sup>2</sup> (EMBA)*.	11A(1)(d)	Tourism activities that could be affected by emergency conditions. Located in an area of long term INPEX operational presence.	Category 2	C
Business	Western Australia	Kuri Bay Sport Fishing Tours	Fishing charter based out of Paspaley Pearls on Kuri Bay.	Business activities occurring in the marine environment or in coastal areas may be impacted by an oil spill	Potential economic impacts (loss of revenue) if excluded from area due to oil spill. Functions, interest or activities overlaps the area of PEZ only, no potential for ecological impact, low potential for socio-economic impacts or perception of these, and predicted shoreline contact >10g/m <sup>2</sup> *.	11A(1)(d)	Tourism activities that could be affected by emergency conditions.	Category 2	C
Business	Western Australia	Mercedes Cove Exclusive Coastal Retreat	Tourism accommodation based on Dampier Peninsula, 180km from Broome. First Nations business.	Business activities (beach camping) occurring in the marine environment or in coastal areas may be impacted by an oil spill	Potential economic impacts (loss of revenue) if excluded from area due to oil spill. Functions, interest or activities overlaps the area of PEZ only, no potential for ecological impact, low potential for socio-economic impacts or perception of these, and predicted shoreline contact >10g/m <sup>2</sup> *.	11A(1)(d)	Tourism activities that could be affected by emergency conditions. Modelling indicates potential for shoreline contact.	Category 2	C
Business	Western Australia	Middle Lagoon	Tourism accommodation based on Dampier Peninsula, 180km from Broome. First Nations business.	Business activities (beach camping) occurring in the marine environment or in coastal areas may be impacted by an oil spill	Potential economic impacts (loss of revenue) if excluded from area due to oil spill. Functions, interest or activities overlaps the area of PEZ only, no potential for ecological impact, low potential for socio-economic impacts or perception of these, and predicted shoreline contact >10g/m <sup>2</sup> *.	11A(1)(d)	Tourism activities that could be affected by emergency conditions. Modelling indicates potential for shoreline contact.	Category 2	C
Business	Western Australia	One Arm Point Trochus Hatchery and Aquarium	Aquaculture and tourism on north east tip of the Dampier Peninsula.	Business activities occurring in the marine environment or in coastal areas may be impacted by an oil spill	Potential economic impacts (loss of revenue) if excluded from area due to oil spill. Functions, interest or activities overlap the area of potential ecological impact and predicted shoreline contact >100g/m <sup>2</sup> (EMBA)*.	11A(1)(d)	Tourism activities that could be affected by emergency conditions. Modelling indicates potential for shoreline contact.	Category 2	C
Business	Western Australia	Pender Bay Escape	Tourism accommodation on coast of Dampier Peninsula, 190km north of Broome.	Business activities (beach camping) occurring in the marine environment or in coastal areas may	Potential economic impacts (loss of revenue) if excluded from area due to oil spill. Functions, interest or activities overlaps the area of PEZ only, no potential for ecological impact, low potential for socio-economic impacts or perception of	11A(1)(d)	Tourism activities that could be affected by emergency conditions. Modelling indicates potential for shoreline contact.	Category 2	C

Category	Jurisdiction/ location or activities	Relevant person	General description	Functions, activities or interests	Are there any environmental values in relation to the EP/PEZ that intersect a persons, organisations, departments or agency's functions, activities or interests?	Categorisation of relevant person under OPGGS (Environment) Regulation 11A(1)A	Basis of selection for relevant persons engagement during development of EP.	Category (1 to 3)	Consultation strategy level (A to D)
				be impacted by an oil spill	these, and predicted shoreline contact >10g/m <sup>2</sup> *.				
Business	Western Australia	Phat Time Fishing	Broome based fishing charter, including the Kimberley coast.	Business activities occurring in the marine environment or in coastal areas may be impacted by an oil spill	Potential economic impacts (loss of revenue) if excluded from area due to oil spill. Functions, interest or activities overlap the area of potential ecological impact and predicted shoreline contact >100g/m <sup>2</sup> (EMBA)*.	11A(1)(d)	Tourism activities that could be affected by emergency conditions. Located in an area of long term INPEX operational presence.	Category 2	C
Business	Western Australia	Reel Teaser Fishing Adventures	Fishing charter, Broome based. Areas include the Kimberley, Rowley Shoals, Scott Reef, Broome and Exmouth.	Business activities occurring in the marine environment or in coastal areas may be impacted by an oil spill	Potential economic impacts (loss of revenue) if excluded from area due to oil spill. Functions, interest or activities overlap the area of potential ecological impact and predicted shoreline contact >100g/m <sup>2</sup> (EMBA)*.	11A(1)(d)	Tourism activities that could be affected by emergency conditions. Located in an area of long term INPEX operational presence.	Category 2	C
Business	Western Australia	Slick Fishing Charters	Broome based fishing charter, 7.5m vessel holds up to 5 pax.	Business activities occurring in the marine environment or in coastal areas may be impacted by an oil spill	Potential economic impacts (loss of revenue) if excluded from area due to oil spill. Functions, interest or activities overlaps the area of PEZ only, no potential for ecological impact, low potential for socio- economic impacts or perception of these, and predicted shoreline contact >10g/m <sup>2</sup> *.	11A(1)(d)	Tourism activities that could be affected by emergency conditions. Located in an area of long term INPEX operational presence.	Category 2	C
Business	Western Australia	Smithy's Seaside Adventures	Tourism accommodation based on Dampier Peninsula coast, 128km from Broome.	Business activities (beach camping) occurring in the marine environment or in coastal areas may be impacted by an oil spill	Potential economic impacts (loss of revenue) if excluded from area due to oil spill. Functions, interest or activities overlaps the area of PEZ only, no potential for ecological impact, low potential for socio- economic impacts or perception of these, and predicted shoreline contact >10g/m <sup>2</sup> *.	11A(1)(d)	Tourism activities that could be affected by emergency conditions. Located in an area of long term INPEX operational presence.	Category 2	C
Business	Western Australia	Sundowner Camel Tours	Tourism operator based on Cable Beach, Broome.	Business activities (tours) occurring in the marine environment or in coastal areas may be impacted by an oil spill	Potential economic impacts (loss of revenue) if excluded from area due to oil spill. Functions, interest or activities overlaps the area of PEZ only, no potential for ecological impact, low potential for socio- economic impacts or perception of these, and predicted shoreline contact >10g/m <sup>2</sup> *.	11A(1)(d)	Tourism activities that could be affected by emergency conditions. Located in an area of long term INPEX operational presence.	Category 2	C
Business	Western Australia	Pilbara Tours	Tourism operator based in Port Hedland offering land based fishing and tours.	Business activities (tours) occurring in the marine environment or in coastal areas may be impacted by an oil spill	Potential economic impacts (loss of revenue) if excluded from area due to oil spill. Functions, interest or activities do not overlap with either PEZ, EMBA and no predicted shoreline contact.	11A(1)(e)	Tourism activities that could be affected by emergency conditions.	Category 2	C
Business	Western Australia	West Kimberley Fishing Tours	Broome based fishing charter, vessel holds 6 pax.	Business activities occurring in the marine environment or in	Potential economic impacts (loss of revenue) if excluded from area due to oil spill. Functions, interest or activities overlaps the area of PEZ	11A(1)(d)	Tourism activities that could be affected by emergency conditions. Located in an area of long term INPEX operational presence.	Category 2	C

Category	Jurisdiction/ location or activities	Relevant person	General description	Functions, activities or interests	Are there any environmental values in relation to the EP/PEZ that intersect a persons, organisations, departments or agency's functions, activities or interests?	Categorisation of relevant person under OPGGS (Environment) Regulation 11A(1)A	Basis of selection for relevant persons engagement during development of EP.	Category (1 to 3)	Consultation strategy level (A to D)
				coastal areas may be impacted by an oil spill	only, no potential for ecological impact, low potential for socio-economic impacts or perception of these, and predicted shoreline contact >10g/m <sup>2</sup> *				
Business	Western Australia	Broome Chamber of Commerce and Industry (BCCI)	Peak industry body that represents and supports businesses in Broome.	Function to represent businesses that operate within PEZ.	Socioeconomic values - represent businesses that operate within PEZ.	11A(1)(e)	Represents businesses that could be affected by emergency conditions. Located in an area of long term INPEX operational presence.	Category 2	C
Business	Northern Territory	Chamber of Commerce NT (CCNT)	Peak industry body that represents and supports businesses in the Northern Territory.	Function to represent businesses that operate within PEZ.	Socioeconomic values - represent businesses that operate within PEZ.	11A(1)(e)	Represents businesses that could be affected by emergency conditions. Located in an area of long term INPEX operational presence.	Category 2	C
Business	Western Australia	Port Hedland Chamber of Commerce and Industry	Peak industry body that represents and supports businesses in the Port Hedland area.	Function to represent businesses that operate within PEZ.	Socioeconomic values - represent businesses that may operate within PEZ.	11A(1)(e)	Represents businesses that could be affected by emergency conditions.	Category 2	C
Business	Western Australia	East Kimberley Chamber of Commerce and Industry	Peak industry body that represents and supports businesses in East Kimberley.	Function to represent businesses that operate within PEZ.	Socioeconomic values - represent businesses that operate within PEZ.	11A(1)(e)	Represents businesses that could be affected by emergency conditions.	Category 2	C
Business	Western Australia	Derby Chamber of Commerce and Industry	Peak industry body that represents and supports businesses in Derby.	Function to represent businesses that operate within PEZ.	Socioeconomic values - represent businesses that operate within PEZ.	11A(1)(e)	Represents businesses that could be affected by emergency conditions.	Category 2	C
Business	Northern Territory	Tiwi Island Retreat	Coastal tourism accommodation on Tiwi Islands.	Business activities occurring in the marine environment or in coastal areas may be impacted by an oil spill	Potential economic impacts (loss of revenue) if excluded from area due to oil spill. Functions, interest or activities overlap the area of potential ecological impact and predicted shoreline contact >100g/m <sup>2</sup> (EMBA)*.	11A(1)(d)	Identified through the extended enquiry process (referred by another relevant person). Tourism activities that could be affected by emergency conditions.	Category 2	C
Business	Northern Territory	Port Melville AusGroup	Infrastructure, port and marine fuel facility located on Melville Island.	Business activities occurring in the marine environment or in coastal areas may be impacted by an oil spill	Potential economic impacts (loss of revenue) if excluded from area due to oil spill. Functions, interest or activities overlap the area of potential ecological impact and predicted shoreline contact >100g/m <sup>2</sup> (EMBA)*.	11A(1)(d)	Identified through the extended enquiry process (referred by another relevant person). Business activities that could be affected by emergency conditions.	Category 2	C
Business	Northern Territory	Tiwi Plantations Corporation	30,000ha plantation estate on Melville Island, 100% Tiwi owned.	Business activities occurring in the marine environment or in coastal areas may be impacted by an oil spill	Potential economic impacts (loss of revenue) if excluded from area due to oil spill. Functions, interest or activities overlap the area of potential ecological impact and predicted shoreline contact >100g/m <sup>2</sup> (EMBA)*.	11A(1)(d)	Identified through the extended enquiry process (referred by another relevant person). Business activities that could be affected by emergency conditions.	Category 2	C
Business	Northern Territory	Tiwi Enterprises Ltd	Purpose of developing economic opportunities and creating jobs for Tiwi people. Operations include project management, vehicle hire and accommodation management.	Business activities occurring in the marine environment or in coastal areas may	Potential economic impacts (loss of revenue) if excluded from area due to oil spill. Functions, interest or activities overlap the area of potential ecological impact and	11A(1)(d)	Identified through the extended enquiry process (referred by another relevant person). Business activities that could be affected by emergency conditions.	Category 2	C

Category	Jurisdiction/ location or activities	Relevant person	General description	Functions, activities or interests	Are there any environmental values in relation to the EP/PEZ that intersect a persons, organisations, departments or agency's functions, activities or interests?	Categorisation of relevant person under OPGGS (Environment) Regulation 11A(1)A	Basis of selection for relevant persons engagement during development of EP.	Category (1 to 3)	Consultation strategy level (A to D)
			Tiwi Enterprises is owned wholly by the Tiwi people.	be impacted by an oil spill	predicted shoreline contact >100g/m <sup>2</sup> (EMBA)*.				
Business	Northern Territory	Tiwi Resources Pty Ltd Limited	Purpose is to gain economic opportunities for the Tiwi People from the use of their land, including income generated from such activities as mining, carbon, fishing and forestry. 100% Tiwi owned.	Business activities occurring in the marine environment or in coastal areas may be impacted by an oil spill	Potential economic impacts (loss of revenue) if excluded from area due to oil spill. Functions, interest or activities overlap the area of potential ecological impact and predicted shoreline contact >100g/m <sup>2</sup> (EMBA)*.	11A(1)(d)	Identified through the extended enquiry process (referred by another relevant person). Business activities that could be affected by emergency conditions.	Category 2	C
Commercial Fishing	Western Australia	Northern Demersal Scalefish Fishery - Area 1 & 2 (Kimberley) Licence holders (8 licence holders via WAFIC)	Primarily a trap-based fishery which targets red emperor and gold band snapper. The fishery operates off the north-west coast of WA in the waters east of longitude 120°E.	Licence holders may be actively fishing within their fishing management areas	Fishery management area overlaps the PEZ and permits. Potential economic impacts (loss of revenue) if excluded from area due to oil spill.	11A(1)(d)	Fishing management area overlaps the PEZ and permit areas. Fishing effort may occur over the permit areas. Between 2016 and 2020, no fishing activity occurred in the fishery directly over the permit areas; however, Fish Cube data confirmed that activity did occur in blocks adjacent to WA-285-P.	Category 1 / 2	C
Commercial Fishing	Western Australia	Abalone Managed Fishery (Zone 8) - Licence holders (multiple licence holders via WAFIC)	Targets the West Coast Roe's Abalone resource and the South Coast Greenlip / Brownlip) Abalone resource. Roe's abalone is found in commercial quantities from the South Australian/ WA border to Shark Bay. The commercial fishery harvest method is a single diver working off a 'hookah'. The fishery operates in shallow coastal waters coinciding with abalone distributions.	Licence holders may be actively fishing within their fishing management areas	Fishery management area overlaps the PEZ and permits; however, no fishing effort occurs over the area of planned activities due to the depth of water (>250m) water temperature and lack of suitable habitat. Areas of collection are located closer to the coast. In 2021, 0 hours effort and 0 tonnes (DPIRD State of Fisheries Report 2020-21). Potential economic impacts (loss of revenue) if excluded from area due to oil spill.	11A(1)(d)	Fishing licence holders whose management areas overlap the PEZ.	Category 2	C
Recreational Fishing	Northern Territory	Amateur Fishermen's Association of the Northern Territory (AFANT)	Peak body for recreational fishing in the NT.	Peak body with a function to represent their members who may actively fish in the PEZ	Represent recreational fishers that overlap the PEZ. Potential economic impacts (loss of revenue) if excluded from area due to oil spill.	11A(1)(d)	Represent recreational fishers that may operate in the PEZ.	Category 2	C
Commercial Fishing	Northern Territory	Aquarium Fishery (from coast out to AFZ) - Licence holders (9 licence holders)	The Aquarium Fishery extends from the NT inland estuarine and marine waters out to the outer boundary of the Australian Fishing Zone, excluding Aboriginal sacred sites and other closed areas. The fishery targets freshwater and marine species using hand collections or small scoop nets.	Licence holders may be actively fishing within their fishing management areas	Fishery management area overlaps the PEZ. Potential economic impacts (loss of revenue) if excluded from area due to oil spill. The fishery targets freshwater and marine species including fish, plants and invertebrates using hand collection methods/nets so operating in shallow waters with no effort in the deep waters of the permit areas or PEZ. Potential economic impacts (loss of revenue) if excluded from area due to oil spill.	11A(1)(d)	Fishing licence holders whose management areas overlap the PEZ.	Category 2	C
Commercial Fishing	Commonwealth	Australian Southern Bluefin Tuna Industry Association	The Australian Southern Bluefin Tuna Industry Association (ASBTIA) represents the Australian SBT industry.	Fishing industry association with a function to represent their	Fishery association representing licence holders. Southern bluefin tuna spawn in Indonesian waters and migrate south through the PEZ.	11A(1)(d)	Represents commercial fishers whose fishery management areas overlap the PEZ.	Category 2	C



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				members who may actively fish in the PEZ or have fish resources (stocks & spawning habitat) within the PEZ.	Potential economic impacts (loss of revenue) if damage to tuna or spawning grounds.				
Commercial Fishing	Northern Territory	Bait Net Fishery (within 3nm) Not 15 nm - Licence holders (2 licence holders)	Commercial fishing for bait is allowed from the high-water mark to the 3 nm seaward of the Low Water Mark but excluding Darwin Harbour and Shoal Bay.	Licence holders may be actively fishing within their fishing management areas	Fishery management area overlaps the PEZ. Potential economic impacts (loss of revenue) if excluded from area due to oil spill. No fishing effort overlapping the permit areas.	11A(1)(d)	Fishing licence holders whose management areas overlap the PEZ.	Category 2	C
Commercial Fishing	Northern Territory	Barramundi Fishery (within 3 nm) - Licence holders (5 licence holders)	Fishery extends from the high water mark out to 3 nm and targets barramundi and king threadfin using gillnets.	Licence holders may be actively fishing within their fishing management areas	Fishery management area overlaps the PEZ. Potential economic impacts (loss of revenue) if excluded from area due to oil spill. No fishing effort overlapping the permit areas. According to the NTSC, many areas are excluded from the fishery defined by fishery closure lines, protection zones and various Marine Parks. Season runs from 1 Feb to 30 Sept. Potential economic impacts (loss of revenue) if excluded from area due to oil spill.	11A(1)(d)	Fishing licence holders whose management areas overlap the PEZ.	Category 2	C
Recreational Fishing	Western Australia	Broome Fishing Club (BFC)	Club representing recreational fishers (via membership) in Broome.	Recreational fishing club with a function to represent their members who may actively fish in the PEZ	Represent recreational fishers that overlap the PEZ. Potential economic impacts (loss of revenue) if excluded from area due to oil spill.	11A(1)(d)	Represent recreational fishers that may operate in the PEZ.	Category 2	C
Recreational Fishing	Western Australia	Broome North Fishing Club (BNFC)	Club representing recreational fishers (via membership) in Broome.	Recreational fishing club with a function to represent their members who may actively fish in the PEZ	Represent recreational fishers that overlap the PEZ. Potential economic impacts (loss of revenue) if excluded from area due to oil spill.	11A(1)(d)	Represent recreational fishers that may operate in the PEZ.	Category 2	C
Commercial Fishing	Western Australia	Broome Prawn Managed Fishery - Licence Holders (multiple licence holders via WAFIC)	Broome Prawn Managed Fishery operates off Broome and targets Western King prawns and Coral prawns.	Licence holders may be actively fishing within their fishing management areas	Fishery management area overlaps the PEZ. Potential economic impacts (loss of revenue) if excluded from area due to oil spill. No effort overlapping the permit areas. In 2019, extremely low fishing effort occurred in the Broome Prawn Managed Fishery as only one boat undertook trial fishing to investigate whether catch rates were sufficient for commercial fishing	11A(1)(d)	Fishing licence holders whose management areas overlap the PEZ.	Category 2	C
Commercial Fishing	Commonwealth	Christmas Island Line Fishery (2 licence holders)	The Christmas Island Line Fishery operates within the 12 nm territorial waters of Christmas Island and is managed by WA	Licence holders may be actively fishing within their fishing management areas	Fishery management area overlaps the PEZ. Potential economic impacts (loss of revenue) if excluded from area due to oil spill. No effort overlapping the permit areas.	11A(1)(d)	Fishing licence holders whose management areas overlap the PEZ.	Category 2	C

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			DPIRD on behalf of the Commonwealth government.		Potential economic impacts (loss of revenue) for possible future fishing activities in the event of an oil spill.				
Commercial Fishing	Northern Territory	Coastal line Fishery (out to 15nm) - Licence holders (38 licence holders)	Commercial fishing licence holders whose fishing management areas may overlap planned or unplanned areas of activity. The NT Coastal Line Fishery mainly targets black jewfish and golden snapper. The fishery extends along the NT coast between the high-water mark and 15 nm out from the Low Water Mark. The western zone extends from the WA border to the Cobourg Peninsula.	Licence holders may be actively fishing within their fishing management areas	Fishery management area overlaps the PEZ. Potential economic impacts (loss of revenue) if excluded from area due to oil spill. No effort overlapping the permit areas.	11A(1)(d)	Fishing licence holders whose management areas overlap the PEZ.	Category 2	C
Commercial Fishing	Northern Territory	Coastal Net Fishery (within 3 nm) - Licence holders (5 licence holders)	The Coastal Net Fishery operates inshore, extending from the high-water mark out to 3 nm. Targets mullet, blue threadfin, shark and queenfish.	Licence holders may be actively fishing within their fishing management areas	Fishery management area overlaps the PEZ. Potential economic impacts (loss of revenue) if excluded from area due to oil spill. No effort overlapping the permit areas.	11A(1)(d)	Fishing licence holders whose management areas overlap the PEZ.	Category 2	C
Commercial Fishing	Commonwealth	Cocos (Keeling Islands) Marine Aquarium Fish Fishery (1 licence holder)	The Cocos (Keeling) Islands Marine Aquarium Fishery covers waters of the Australian Fishing Zone within the 12 nm territorial waters of Cocos (Keeling) Islands, excluding the waters of North Keeling National Park and the AMP. The fishery is managed by WA DPIRD and is the only regulated fishery operating within the 12 nm boundary around the Cocos (Keeling) Islands	Licence holders may be actively fishing within their fishing management areas	Fishery management area overlaps the PEZ. Potential economic impacts (loss of revenue) if excluded from area due to oil spill. No effort overlapping the permit areas.	11A(1)(d)	Fishing licence holders whose management areas overlap the PEZ.	Category 2	C
Commercial Fishing	Commonwealth	Commonwealth Fisheries Association (CFA)	The peak body representing the collective rights, responsibilities and interests of a diverse commercial fishing industry in Commonwealth regulated fisheries.	Fishing industry association with a function to represent their members who may actively fish in the PEZ	Represent commercial fishers that overlap the PEZ. Potential economic impacts (loss of revenue) if excluded from area due to oil spill.	11A(1)(d)	Represents commercial fishers whose fishery management areas overlap the PEZ.	Category 1 / 2	C
Commercial Fishing	Western Australia	Cygnets Bay Pearls	Commercial pearling lease holder based on Dampier Peninsula.	Pearl farming activities may occur as pearl farm leases overlap the PEZ.	Pearl farm leases overlap the PEZ. Potential economic impacts (loss of revenue) if excluded from area due to oil spill.	11A(1)(d)	Pearl farm leases overlap the PEZ. Also have tourism operations that may be affected. Cygnets Bay is a member of the Pearl Producers Association (PPA). Previously INPEX has been unsuccessful in obtaining responses from PPA and as such has chosen to contact PPA members directly.	Category 2	C
Commercial Fishing	Northern Territory	Demersal (Multigear) Fishery - Licence holders	Fishery targets mainly red snappers and gold-band snappers. Drop lines, traps and trawl are the main gear types used in the fishery which extends 15 nm from	Licence holders may be actively fishing within their fishing management areas	Fishery management area overlaps the PEZ. Potential economic impacts (loss of revenue) if excluded from area due to oil spill. No fishing effort overlapping the permit areas.	11A(1)(d)	Fishing licence holders whose management areas overlap the PEZ.	Category 2	C

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		(13 licence holders)	the Low Water Mark to the outer boundary of the Australian Fishing Zone.						
Commercial Fishing	Western Australia	Hermit Crab Fishery - Licence holders (multiple licence holders via WAFIC)	The Hermit Crab Fishery targets the Australian land hermit crab for the domestic and international live pet trade. The fishery operates throughout the year and is currently permitted to fish in waters north of Exmouth Gulf.	Licence holders may be actively fishing within their fishing management areas	Fishery management area overlaps the PEZ. Potential economic impacts (loss of revenue) if excluded from area due to oil spill. Land based and no effort in the deep waters of the permit areas. There was only one active licence in 2019 with a total catch of < 60,000 crabs.	11A(1)(d)	Fishing licence holders whose management areas overlap the PEZ.	Category 2	C
Commercial Fishing	Western Australia	Joint Authority Northern Shark Fishery - Licence Holders (multiple licence holders via WAFIC)	This fishery is managed by the WA Fisheries Joint Authority. For reporting and assessment purposes, the Joint Authority Northern Shark Fishery (JANSF) is combined with the adjacent (state-managed) Western Australia North Coast Shark Fishery (WANCSF) and reported as part of the northern shark fishery	Licence holders may be actively fishing within their fishing management areas	Fishery management area overlaps the PEZ. Potential economic impacts (loss of revenue) if excluded from area due to oil spill. Fishery has not been active since 2008/2009 to enable recovery of shark species (AFMA 2022).	11A(1)(d)	Although the fishery is not currently active, the fishery management area overlaps the PEZ.	Category 2	C
Commercial Fishing	Western Australia	Kimberley Gillnet and Barramundi Fishery - Licence holders (multiple licence holders via WAFIC)	The Kimberley Gillnet and Barramundi Fishery extends from the WA/NT border to the northern end of Eighty Mile Beach, covering the river systems and tidal creek systems of the Cambridge Gulf, the Ria coast of the northern Kimberley, King Sound, The fishery targets barramundi .	Licence holders may be actively fishing within their fishing management areas	Fishery management area overlaps the PEZ. Potential economic impacts (loss of revenue) if excluded from area due to oil spill. Fishing is currently prohibited between the southern boundary to north of Willie Creek and in King Sound.	11A(1)(d)	Fishing licence holders whose management areas overlap the PEZ.	Category 2	C
Commercial Fishing	Western Australia	Kimberley Managed Prawn Fishery - Licence Holders (multiple licence holders via WAFIC)	The fishery operates from the north eastern boundary of the Exmouth Gulf Prawn Fishery to Cape Londonderry.	Licence holders may be actively fishing within their fishing management areas	Fishery management area overlaps the PEZ. Potential economic impacts (loss of revenue) if excluded from area due to oil spill. No fishing effort overlapping the permit areas.	11A(1)(d)	Fishing licence holders whose management areas overlap the PEZ.	Category 2	C
Commercial Fishing	Western Australia	Mackerel Managed Fishery - Area 1 (Kimberley) (multiple licence holders via WAFIC)	The Mackerel Managed Fishery uses near-surface trolling gear from vessels in coastal areas around reefs, shoals and headlands. Area 1 - Kimberley covers from approximately eighty mile beach north to the WA/NT border.	Licence holders may be actively fishing within their fishing management areas	Fishery management area overlaps the PEZ and permits. Potential economic impacts (loss of revenue) if excluded from area due to oil spill. Fishery uses near-surface trolling gear from vessels in coastal areas around reefs, shoals and headlands in the PEZ.	11A(1)(d)	Fishing licence holders whose management areas overlap the PEZ and permit areas.	Category 2	C
Commercial Fishing	Western Australia	Mackerel Managed Fishery - Area 2 (Pilbara) (multiple licence holders via WAFIC)	The Mackerel Managed Fishery uses near-surface trolling gear from vessels in coastal areas around reefs, shoals and headlands. Area 2 - Pilbara covers from approximately eighty mile beach south to Exmouth Gulf.	Licence holders may be actively fishing within their fishing management areas	Fishery management area overlaps the PEZ. Potential economic impacts (loss of revenue) if excluded from area due to oil spill. Fishery uses near-surface trolling gear from vessels in coastal areas around reefs, shoals and headlands in the PEZ.	11A(1)(d)	Fishing licence holders whose management areas overlap the PEZ.	Category 2	C

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Commercial Fishing	Western Australia	Marine Aquarium Fish Fishery - Licence holders (multiple licence holders via WAFIC)	The Marine Aquarium Fish Fishery is typically more active in coastal waters south of Broome with higher levels of effort around the Capes region, Perth, Geraldton, Exmouth, Dampier and Broome	Licence holders may be actively fishing within their fishing management areas	Fishery management area overlaps the PEZ. Potential economic impacts (loss of revenue) if excluded from area due to oil spill. No fishing effort overlapping the permit areas. Fishery is more active in coastal waters south of Broome with higher levels of effort around the Capes region, Perth, Geraldton, Exmouth, Dampier and Broome so overlaps the PEZ.	11A(1)(d)	Fishing licence holders whose management areas overlap the PEZ.	Category 2	C
Commercial Fishing	Western Australia	Maxima Pearls	Commercial pearling lease holder based in Cone Bay.	Pearl farming activities may occur as pearl farm leases overlap the PEZ.	Pearl farm leases overlap the PEZ. Potential economic impacts (loss of revenue) if excluded from area due to oil spill.	11A(1)(d)	Pearl farm leases overlap the PEZ. Maxima is a member of the Pearl Producers Association (PPA). Previously INPEX has been unsuccessful in obtaining responses from PPA and as such has chosen to contact PPA members directly.	Category 2	C
Commercial Fishing	Northern Territory	Mollusc Fishery (intertidal areas from low to high water mark) - Licence holders (1 licence holder)	The Mollusc Fishery operates in intertidal waters from the high-water mark out to the low water mark. Molluscs are collected by hand and only shellfish can be taken with no collection of pearl oysters or cephalopods allowed.	Licence holders may be actively fishing within their fishing management areas	Fishery management area overlaps the PEZ. Potential economic impacts (loss of revenue) if excluded from area due to oil spill. Fishery operates in intertidal waters from the high-water mark out to the low water mark. Molluscs are collected by hand and so no effort overlapping the deep water of the permit areas.	11A(1)(d)	Fishing licence holders whose management areas overlap the PEZ.	Category 2	C
Commercial Fishing	Northern Territory	Mud crab Fishery (from coast out to AFZ) - Licence holders (36 licence holders)	Targeting mud crabs, the fishery operates in NT tidal waters year-round.	Licence holders may be actively fishing within their fishing management areas	Fishery management area overlaps the PEZ. Potential economic impacts (loss of revenue) if excluded from area due to oil spill. No fishing effort overlapping the permit areas.	11A(1)(d)	Fishing licence holders whose management areas overlap the PEZ.	Category 2	C
Commercial Fishing	Western Australia	Nickol Bay Prawn Managed Fishery - Licence holders (multiple licence holders via WAFIC)	The Nickol Bay Prawn Managed Fishery operates along the western part of the NWS from Karratha and the waters west of longitude 120°E. Predominantly targets banana prawns.	Licence holders may be actively fishing within their fishing management areas	Fishery management area overlaps the PEZ. Potential economic impacts (loss of revenue) if excluded from area due to oil spill. No fishing effort overlapping the permit areas.	11A(1)(d)	Fishing licence holders whose management areas overlap the PEZ.	Category 2	C
Commercial Fishing	Commonwealth	North West Slope Trawl Fishery - Licence holders (4 licence holders)	The North West Slope Trawl Fishery targets scampi and deepwater prawn. The fishery is in deep water from the coast of the Prince Regent National Park to Exmouth between the 200 m depth contour to the outer limit of the Australian Fishing Zone.	Licence holders may be actively fishing within their fishing management areas	Fishery management area overlaps the PEZ and permits. Potential economic impacts (loss of revenue) if excluded from area due to oil spill. It is the only active fishery in the vicinity of WA-285-P and WA-343-P, with reportedly low negligible trawl-fishing in the Ichthys field. The highest levels of fishing intensity (hours per km <sup>2</sup> ) are undertaken approximately 350 km to the south-west of the permit areas.	11A(1)(d)	Fishing management area overlaps the PEZ and permit areas. Fishing effort may occur over the permit areas.	Category 1	C
Commercial Fishing	Western Australia	North-coast Crab Fishery (includes Kimberley and Pilbara Crab	The North Coast Crab Fishery is a trap-based fishery which targets blue swimmer crabs in the Pilbara (the Pilbara Crab Managed	Licence holders may be actively fishing within their	Fishery management area overlaps the PEZ. Potential economic impacts (loss of revenue) if excluded from	11A(1)(d)	Fishing licence holders whose management areas overlap the PEZ.	Category 2	C

Category	Jurisdiction/ location or activities	Relevant person	General description	Functions, activities or interests	Are there any environmental values in relation to the EP/PEZ that intersect a persons, organisations, departments or agency's functions, activities or interests?	Categorisation of relevant person under OPGGS (Environment) Regulation 11A(1)A	Basis of selection for relevant persons engagement during development of EP.	Category (1 to 3)	Consultation strategy level (A to D)
		Fisheries) - Licence holders (multiple licence holders via WAFIC)	Fishery) and mud crab in the Kimberley (the Kimberley Crab Managed Fishery) operations permitted from King Sound to the WA/NT border.	fishing management areas	area due to oil spill. No fishing effort overlapping the permit areas.				
Commercial Fishing	Commonwealth	Northern Prawn Fishery - Licence holders (22 licence holders)	The fishery targets several prawn species in northern Australian waters from Cape York in Queensland to Cape Londonderry in WA and is predominantly active in the shallow waters with the highest catches taken offshore from mangrove forests, which act as juvenile nursery areas. Known to be active in areas of the Joseph Bonaparte Gulf.	Licence holders may be actively fishing within their fishing management areas	Fishery management area overlaps the PEZ. Potential economic impacts (loss of revenue) if excluded from area due to oil spill. No fishing effort overlapping the permit areas.	11A(1)(d)	Fishing licence holders whose management areas overlap the PEZ.	Category 2	C
Commercial Fishing	Northern Territory	Northern Territory Seafood Council (NTSC)	The peak representative body for the wild catch, aquaculture and trader/processor seafood sectors in the NT.	Peak body with a function to represent their members who may actively fish in the PEZ	Represents seafood industry that operate in areas that overlap the PEZ. Potential economic impacts (loss of revenue) if excluded from area due to oil spill.	11A(1)(d)	Represents commercial fishers whose fishery management areas overlap the PEZ.	Category 2	C
Commercial Fishing	Commonwealth	NPF Industry Pty Ltd (Industry association)	Acts as the representative body for NPF trawler operators, processors and marketers, which spans from Cape York (Qld) to Cape Londonderry (WA).	Fishing industry association with a function to represent their members who may actively fish in the PEZ	Represents Northern Prawn Fishery Industry that operate in the PEZ.	11A(1)(d)	Represents commercial fishers whose fishery management areas overlap the PEZ.	Category 2	C
Commercial Fishing	Northern Territory	Offshore Net and Line Fishery (from coast out to AFZ) - Licence holders (10 licence holders)	The fishery extends from the NT high water mark out to the Australian Fishing Zone. Most fishing occurs in the coastal zone within 12 nm of the coast, and immediately offshore in the Gulf of Carpentaria	Licence holders may be actively fishing within their fishing management areas	Fishery management area overlaps the PEZ. Potential economic impacts (loss of revenue) if excluded from area due to oil spill.	11A(1)(d)	Fishing licence holders whose management areas overlap the PEZ.	Category 2	C
Commercial Fishing	Western Australia	Onslow Prawn Managed Fishery - Licence holders (multiple licence holders via WAFIC)	The Onslow Prawn Fishery predominantly targets banana prawns and operates (Area 3) in waters to the south of Karratha.	Licence holders may be actively fishing within their fishing management areas	Fishery management area overlaps the PEZ. Potential economic impacts (loss of revenue) if excluded from area due to oil spill. Area 3 of the fishery slightly overlaps the PEZ; however, areas trawled in 2019 do not overlap the PEZ.	11A(1)(d)	Fishing licence holders whose management areas overlap the PEZ.	Category 2	C
Recreational Fishing	Northern Territory	Palmerston Game Fishing Club	Club representing recreational fishers (via membership) in Palmerston NT.	Game fishing club with a function to represent their members who may actively fish in the PEZ	Represent recreational fishers that overlap the PEZ. Potential economic impacts (loss of revenue) if excluded from area due to oil spill.	11A(1)(d)	Represent recreational fishers that may operate in the PEZ.	Category 2	C
Commercial Fishing	Western Australia	Paspaley	Commercial pearling lease holder based on Kimberley coast near Prince Regent River.	Pearl farming activities may occur as pearl farm leases overlap the PEZ.	Pearl farm leases overlap the PEZ. Potential economic impacts (loss of revenue) if excluded from area due to oil spill.	11A(1)(d)	Pearl farm leases overlap the PEZ. Also have tourism operations that may be affected. Paspaley is a member of the Pearl Producers Association (PPA). Previously INPEX has been unsuccessful in obtaining responses from PPA and as such has	Category 2	C

Category	Jurisdiction/ location or activities	Relevant person	General description	Functions, activities or interests	Are there any environmental values in relation to the EP/PEZ that intersect a persons, organisations, departments or agency's functions, activities or interests?	Categorisation of relevant person under OPGGS (Environment) Regulation 11A(1)A	Basis of selection for relevant persons engagement during development of EP.	Category (1 to 3)	Consultation strategy level (A to D)
							chosen to contact PPA members directly.		
Commercial Fishing	Northern Territory	Pearl oyster (from coast out to AFZ) - Licence holders (4 licence holders)	The Pearl Oyster Fishery extends from the NT high water mark to the outer boundary of the Australian Fishing Zone.	Licence holders may be actively fishing within their fishing management areas	Fishery management area overlaps the PEZ. Potential economic impacts (loss of revenue) if excluded from area due to oil spill. No fishing effort overlapping the permit areas. Hand collection allowed only by the fishery.	11A(1)(d)	Fishing licence holders whose management areas overlap the PEZ.	Category 2	C
Commercial Fishing	Western Australia	Pearl Oyster Managed Fishery - Zone 1 - Licence holders (multiple licence holders via WAFIC)	The WA Pearl Oyster Managed Fishery is the only remaining significant wild-stock fishery for pearl oysters in the world. Covers area from Exmouth Gulf to Port Hedland.	Licence holders may be actively fishing within their fishing management areas	Fishery management area overlaps the PEZ. Potential economic impacts (loss of revenue) if excluded from area due to oil spill. Dive fishery operating in the shallow coastal waters of the PEZ.	11A(1)(d)	Fishing licence holders whose management areas overlap the PEZ.	Category 2	C
Commercial Fishing	Western Australia	Pearl Oyster Managed Fishery - Zone 2 - Licence holders (multiple licence holders via WAFIC)	The WA Pearl Oyster Managed Fishery is the only remaining significant wild-stock fishery for pearl oysters in the world. The main fishing grounds (Zone 2) are off Eighty Mile Beach.	Licence holders may be actively fishing within their fishing management areas	Fishery management area overlaps the PEZ. Potential economic impacts (loss of revenue) if excluded from area due to oil spill. Dive fishery operating in the shallow coastal waters of the PEZ.	11A(1)(d)	Fishing licence holders whose management areas overlap the PEZ.	Category 2	C
Commercial Fishing	Western Australia	Pearl Oyster Managed Fishery - Zone 3 - Licence holders (multiple licence holders via WAFIC)	The WA Pearl Oyster Managed Fishery is the only remaining significant wild-stock fishery for pearl oysters in the world. Zone 3 covers area from Port Hedland to Sandy Point.	Licence holders may be actively fishing within their fishing management areas	Fishery management area overlaps the PEZ and permits. Potential economic impacts (loss of revenue) if excluded from area due to oil spill. Dive fishery operating in the shallow coastal waters of the PEZ with no effort in deep waters of the permit areas.	11A(1)(d)	Fishing licence holders whose management areas overlap the PEZ and permit areas.	Category 2	C
Commercial Fishing	Western Australia	Pearl Oyster Managed Fishery - Zone 4 - Licence holders (multiple licence holders via WAFIC)	The WA Pearl Oyster Managed Fishery is the only remaining significant wild-stock fishery for pearl oysters in the world. Zone 4 covers area from Sandy Point to the WA/NT border.	Licence holders may be actively fishing within their fishing management areas	Fishery management area overlaps the PEZ. Potential economic impacts (loss of revenue) if excluded from area due to oil spill.	11A(1)(d)	Fishing licence holders whose management areas overlap the PEZ.	Category 2	C
Commercial Fishing	Western Australia	Pearl Producers Association	The peak representative organisation representing the Australian South Sea Pearling Industry in WA and the NT.	Peak body with a function to represent their members who may actively fish in the PEZ	Represents pearling industry that operate in the PEZ.	11A(1)(d)	Previously INPEX has been unsuccessful in obtaining responses from PPA and as such has chosen to contact PPA members directly in addition to contacting PPA.	Category 2	C
Commercial Fishing	Western Australia	Pilbara Demersal Scalefish Fishery (Trap and Trawl) - Licence holders (multiple licence holders via WAFIC)	The main species landed by the Pilbara Trap Managed Fishery and Pilbara Fish Trawl Interim Managed Fishery are blue spotted emperor, red emperor and rankin cod. Extends from Exmouth Gulf to waters west of longitude 120°E.	Licence holders may be actively fishing within their fishing management areas	Fishery management area overlaps the PEZ. Potential economic impacts (loss of revenue) if excluded from area due to oil spill. No fishing effort overlapping the permit areas.	11A(1)(d)	Fishing licence holders whose management areas overlap the PEZ.	Category 2	C

Category	Jurisdiction/ location or activities	Relevant person	General description	Functions, activities or interests	Are there any environmental values in relation to the EP/PEZ that intersect a persons, organisations, departments or agency's functions, activities or interests?	Categorisation of relevant person under OPGGS (Environment) Regulation 11A(1)A	Basis of selection for relevant persons engagement during development of EP.	Category (1 to 3)	Consultation strategy level (A to D)
Commercial Fishing	Western Australia	Pilbara Line Fishery - Licence holders (multiple licence holders via WAFIC)	The Pilbara Line Fishery uses a drop line fishing method. Fishery extends offshore from the Pilbara in waters west of longitude 120°E.	Licence holders may be actively fishing within their fishing management areas	Fishery management area overlaps the PEZ. Potential economic impacts (loss of revenue) if excluded from area due to oil spill. No fishing effort overlapping the permit areas.	11A(1)(d)	Fishing licence holders whose management areas overlap the PEZ.	Category 2	C
Recreational Fishing	Western Australia	Port Hedland Game Fishing Club	Club representing recreational fishers in Port Hedland.	Game fishing club with a function to represent their members who may actively fish in the PEZ	Represent recreational fishers that overlap the PEZ. Potential economic impacts (loss of revenue) if excluded from area due to oil spill.	11A(1)(d)	Represent recreational fishers that may operate in the PEZ.	Category 2	C
Recreational Fishing	Western Australia	Recfishwest	Peak body representing recreational fishers (via membership) in WA, who may be interested in planned activities if these are located in areas fished.	Peak body with a function to represent their members who may actively fish in the PEZ	Represents recreational fishers that may fish in the PEZ who may be excluded from area due to oil spill.	11A(1)(d)	Represent recreational fishers who may operate in the PEZ.	Category 2	C
Commercial Fishing	Commonwealth	Southern Bluefin Tuna Fishery - Licence holders (83 licence holders)	The Southern Bluefin Tuna Fishery covers all Australian waters out to 200 nm from the coast including those around Christmas Island and the Cocos Keeling Islands. Known spawning grounds in Indonesia.	Licence holders may be actively fishing within their fishing management areas	Although no fishing effort in the PEZ, southern bluefin tuna spawn in Indonesian waters and migrate south through the PEZ. Potential economic impacts (loss of revenue) if damage to tuna or spawning grounds. Fishing effort based around Port Lincoln in South Australia. No fishing effort overlapping the permit areas. Spawning grounds do slightly overlap the permit areas see GIS mapping provided to licence holders in this fishery as part of consultation log/summary report (Appendix B6).	11A(1)(d)	Fishing licence holders whose management areas overlap the PEZ.	Category 2	C
Commercial Fishing	Western Australia	South-west coast Salmon Managed Fishery- Licence holders (multiple licence holders via WAFIC)	South West Coast Salmon Managed Fishery targets WA salmon. Fishery effort is south of Exmouth.	Licence holders may be actively fishing within their fishing management areas	Fishery management area overlaps the PEZ. Potential economic impacts (loss of revenue) if excluded from area due to oil spill. Fishing effort is south of Exmouth and does not overlap with the permit areas.	11A(1)(d)	Fishing licence holders whose management areas overlap the PEZ.	Category 2	C
Commercial Fishing	Northern Territory	Spanish Mackerel Fishery (from coast out to AFZ) - Licence holders (9 licence holders)	The Spanish Mackerel Fishery targets narrow-banded Spanish mackerel within NT waters from the high-water mark out to the outer boundary of the Australian Fishing Zone. Most effort is generally focused around reefs, headlands and shoals.	Licence holders may be actively fishing within their fishing management areas	Fishery management area overlaps the PEZ. Potential economic impacts (loss of revenue) if excluded from area due to oil spill. No fishing effort overlapping the permit areas.	11A(1)(d)	Fishing licence holders whose management areas overlap the PEZ.	Category 2	C
Commercial Fishing	Western Australia	Specimen Shell Managed Fishery - Licence holders (multiple licence holders via WAFIC)	The Specimen Shell Managed Fishery is based on the collection of individual shells for the purposes of display, collection, cataloguing, classification and sale. The fishery covers the entire WA coastline. There is some concentration of effort in areas	Licence holders may be actively fishing within their fishing management areas	Fishery management area overlaps the PEZ. Potential economic impacts (loss of revenue) if excluded from area due to oil spill. Fishery effort concentrated in areas adjacent to population centres in the PEZ such as Broome and not the deep waters of the permit areas.	11A(1)(d)	Fishing licence holders whose management areas overlap the PEZ.	Category 2	C

Category	Jurisdiction/ location or activities	Relevant person	General description	Functions, activities or interests	Are there any environmental values in relation to the EP/PEZ that intersect a persons, organisations, departments or agency's functions, activities or interests?	Categorisation of relevant person under OPGGS (Environment) Regulation 11A(1)A	Basis of selection for relevant persons engagement during development of EP.	Category (1 to 3)	Consultation strategy level (A to D)
			adjacent to population centres such as Broome.						
Commercial Fishing	Northern Territory	Timor Reef Fishery - Licence holders (11 licence holders)	Fishery primarily targets gold-band snapper and red snapper. The fishery operates from north-east of Darwin to the WA/NT border and to the outer limit of the Australian Fishing Zone.	Licence holders may be actively fishing within their fishing management areas	Fishery management area overlaps the PEZ. Potential economic impacts (loss of revenue) if excluded from area due to oil spill.	11A(1)(d)	Fishing licence holders whose management areas overlap the PEZ.	Category 2	C
Commercial Fishing	Northern Territory	Trepang Fishery (within 3 nm) - Licence holders (1 licence holder)	The NT Trepang Fishery area extends from the NT high-water mark out to 3 nm. Trepang are typically harvested by hand from the intertidal and subtidal zones.	Licence holders may be actively fishing within their fishing management areas	Fishery management area overlaps the PEZ. Potential economic impacts (loss of revenue) if excluded from area due to oil spill. Trepang are typically harvested by hand from the intertidal and subtidal zones within the PEZ.	11A(1)(d)	Fishing licence holders whose management areas overlap the PEZ.	Category 2	C
Commercial Fishing	Western Australia	Trochus fishery - Licence Holders (multiple licence holders via WAFIC)	The Trochus Fishery is a small fishery based on a single target species harvested by hand from King Sound and the Buccaneer Archipelago. The fishery is operated by the Bardi Jawi and Mayala Aboriginal communities	Licence holders may be actively fishing within their fishing management areas	Fishery management area overlaps the PEZ. Potential economic impacts (loss of revenue) if excluded from area due to oil spill. Trochus harvested by hand from King Sound and the Buccaneer Archipelago no effort in the deep waters of the permit areas.	11A(1)(d)	Fishing licence holders whose management areas overlap the PEZ.	Category 2	C
Commercial Fishing	Western Australia	West Coast Deep Sea Crustacean Fishery - Licence holders (multiple licence holders via WAFIC)	The West Coast Deep Sea Crustacean Fishery operates using baited pots in a long-line formation in the shelf edge waters. Extends from Onslow north along the Kimberley coast in water > 150 m depth to the Australian Fishing Zone.	Licence holders may be actively fishing within their fishing management areas	Fishery management area overlaps the PEZ and permits; however, no fishing effort occurs over the area of planned activities. Fishery uses baited pots in a long-line formation in the shelf edge waters > 150 m depth (Gaughan & Santoro 2021).	11A(1)(d)	Fishing licence holders whose management areas overlap the PEZ and permit area.	Category 2	C
Commercial Fishing	Western Australia	Western Australian Fishing Industry Council (WAFIC)	The peak industry body representing professional fishing, pearling and aquaculture enterprises, processors and exporters in Western Australia.	Fishing industry association with a function to represent their members who may actively fish in the PEZ	Represent WA fisheries operating in the PEZ and permit areas.	11A(1)(d)	Represent commercial fisheries operating in the PEZ.	Category 1 / 2	A
Recreational Fishing	Western Australia	Western Australian Game Fishing Association	Coordinates game fishing activities within WA.	Game fishing association with a function to represent their members who may actively fish in the PEZ	Represents recreational fishers that may fish in the PEZ who may be excluded from area due to oil spill.	11A(1)(d)	Represent recreational fishers that may operate in the PEZ.	Category 2	C
Commercial Fishing	Commonwealth	Western Skipjack Fishery - Licence holders (2 licence holders)	The Western Skipjack Tuna Fishery covers the waters surrounding WA and NT out to 200 nm from the coast. The fishery targets the skipjack tuna.	Licence holders may be actively fishing within their fishing management areas	Fishery management area overlaps the PEZ and planned activities; however, no fishing effort in the area of planned activities. The fishery has not been active since 2008/2009 (advice from AFMA).	11A(1)(e)	Although the fishery is not currently active, the fishery management area overlaps the PEZ.	Category 2	C



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Commercial Fishing	Commonwealth	Western Tuna and Billfish Fishery - Licence holders (59 licence holders)	The fishery covers the sea area west from the tip of Cape York in Queensland, around WA, to the border between Victoria and South Australia. Fishing occurs in both the Australian Fishing Zone and adjacent high seas. The fishery also includes the waters surrounding Christmas Island and the Cocos (Keeling) Islands operating outside 12 nm of the Christmas Island and Cocos (Keeling) Islands. Fishery is managed by WA DPIRD under the Western Tuna and Billfish Fishery Management arrangements	Licence holders may be actively fishing within their fishing management areas	Fishery management area overlaps the PEZ and permit areas. Fishing effort is concentrated off south-west WA (Patterson et al. 2021) with no fishing occurring near the permit areas.	11A(1)(d)	Fishing licence holders whose management areas overlap the PEZ.	Category 2	C
Commercial Fishing	Western Australia	Willie Creek Pearls	Commercial pearling lease holder based in Broome.	Pearl farming activities may occur as pearl farm leases overlap the PEZ.	Pearl farm leases overlap the PEZ. Potential economic impacts (loss of revenue) if excluded from area due to oil spill.	11A(1)(d)	Pearl farm leases overlap the PEZ. Also have tourism operations that may be affected. Willie Creek is a member of the Pearl Producers Association (PPA). Previously INPEX has been unsuccessful in obtaining responses from PPA and as such has chosen to contact PPA members directly.	Category 2	C
Commercial Fishing	Northern Territory	Small Pelagic Development Fishery - licence holders (1 licence holder)	The Small Pelagic Developmental Fishery targets Blacktip sharks. Operates in NT waters.	Licence holders may be actively fishing within their fishing management areas	Fishery management area overlaps the PEZ. Potential economic impacts (loss of revenue) if excluded from area due to oil spill.	11A(1)(d)	Fishing licence holders whose management areas overlap the PEZ.	Category 2	C
Commercial Fishing	Western Australia	Sea Cucumber Fishery (out to 3nm) - Licence Holders (multiple licence holders via WAFIC)	Two key species targeted by the Sea Cucumber Fishery are sandfish and redfish collected by hand predominantly through diving, and to a lesser extent by wading, in shallow waters from Exmouth Gulf to the Northern Territory border	Licence holders may be actively fishing within their fishing management areas	Fishery management area overlaps the PEZ. Potential economic impacts (loss of revenue) if excluded from area due to oil spill.	11A(1)(d)	Fishing licence holders whose management areas overlap the PEZ.	Category 2	C
Commercial Fishing	Commonwealth	Tuna Australia (Industry association)	Industry association representing members of the Eastern and Western Tuna and Billfish and Western Skipjack fisheries of Australia.	Fishing industry association with a function to represent their members who may actively fish in the PEZ	Represents Western Tuna and Billfish Fishery and Western Skipjack Industry that operate in the PEZ.	11A(1)(d)	Identified through the extended enquiry process (referred by another relevant person). Represents commercial fishers whose fishery management areas overlap the PEZ.	Category 2	C
Traditional fishing	Australian/ Indonesian MoU	Traditional Indonesian fishers - MOU Box	Indonesian traditional fishers, using traditional fishing methods only, are permitted to operate in an area of approx. 50,000 km <sup>2</sup> of Australian waters in the Timor Sea, known as the MoU Box. The MoU Box is managed in accordance with a bilateral agreement between the Australian and Indonesian Governments,	Traditional fishing activities within areas of the MoU box. Traditional fishing by Indonesian fishers within the MOU box is restricted to traditional boats and fishing methods which do	Most traditional fishing occurs in areas of Scott and Seringapatam reefs, Browse Island and Ashmore and Cartier islands. Target species includes trepang, trochus, abalone, sponges and reef fish.	11A(1)(d)	Traditional fishers that may operate in the EMBA which is located in the MoU box. Modelling confirms that 10 g/m <sup>2</sup> and 100 g/m <sup>2</sup> may occur at Browse Island, Ashmore island/reef, Cartier island/reef, Scott reef and Seringapatam reef. The obligation to identify relevant persons for the purpose of consultation must be reasonably capable of discharge within a	N/A	N/A

Category	Jurisdiction/ location or activities	Relevant person	General description	Functions, activities or interests	Are there any environmental values in relation to the EP/PEZ that intersect a persons, organisations, departments or agency's functions, activities or interests?	Categorisation of relevant person under OPGGS (Environment) Regulation 11A(1)A	Basis of selection for relevant persons engagement during development of EP.	Category (1 to 3)	Consultation strategy level (A to D)
			promoting fisheries and marine cooperation between Australia and Indonesia. There is no requirement for traditional fishers to be licensed by either the Australian or Indonesian governments therefore there is no publicly available information to identify these individuals.	not use motors or engines. Methods include line fishing or free-diving for hand collection of sedentary species without the use of compressed air breathing equipment or any other fishing equipment with motors or engines.			reasonable time and there is an evident need for all relevant persons to be ascertainable. Based on the opacity as to the identity of any traditional fishers operating within the MoU Box, INPEX has not been able to identify or make contact with them in a manner which is considered to be both reasonable and workable		
Oil & Gas	Western Australia	3D Oil Limited	Titleholder of an offshore petroleum or GHG permit	May have petroleum or GHG activities occurring within the PEZ and has a commercial interest in offshore title(s)	Displacement of other marine users.	11A(1)(d)	Do not overlap area of planned activities but titleholder of offshore petroleum or GHG permit where activities may be occurring within the PEZ.	Category 2	C
Oil & Gas	Western Australia	Beach Energy Limited	Titleholder of an offshore petroleum or GHG permit	May have petroleum or GHG activities occurring within the PEZ and has a commercial interest in offshore title(s)	Displacement of other marine users.	11A(1)(d)	Do not overlap area of planned activities but titleholder of offshore petroleum or GHG permit where activities may be occurring within the PEZ.	Category 2	C
Oil & Gas	Western Australia	Bengal Energy Ltd	Titleholder of an offshore petroleum or GHG permit	May have petroleum or GHG activities occurring within the PEZ and has a commercial interest in offshore title(s)	Displacement of other marine users.	11A(1)(d)	Do not overlap area of planned activities but titleholder of offshore petroleum or GHG permit where activities may be occurring within the PEZ.	Category 2	C
Oil & Gas	Western Australia	BP Australia Pty. Ltd	Titleholder of an offshore petroleum or GHG permit	May have petroleum or GHG activities occurring within the PEZ and has a commercial interest in offshore title(s)	Displacement of other marine users.	11A(1)(d)	Do not overlap area of planned activities but titleholder of offshore petroleum or GHG permit where activities may be occurring within the PEZ.	Category 2	C
Oil & Gas	Western Australia	Carnarvon Energy Limited	Titleholder of an offshore petroleum or GHG permit	May have petroleum or GHG activities occurring within the PEZ and has a commercial interest in offshore title(s)	Displacement of other marine users.	11A(1)(d)	Do not overlap area of planned activities but titleholder of offshore petroleum or GHG permit where activities may be occurring within the PEZ.	Category 2	C
Oil & Gas	Western Australia	Chevron Australia Pty Ltd	Titleholder of an offshore petroleum or GHG permit	May have petroleum or GHG activities occurring within the PEZ and has a commercial interest in offshore title(s)	Displacement of other marine users.	11A(1)(d)	Do not overlap area of planned activities but titleholder of offshore petroleum or GHG permit where activities may be occurring within the PEZ.	Category 2	C

Category	Jurisdiction/ location or activities	Relevant person	General description	Functions, activities or interests	Are there any environmental values in relation to the EP/PEZ that intersect a persons, organisations, departments or agency's functions, activities or interests?	Categorisation of relevant person under OPGGS (Environment) Regulation 11A(1)A	Basis of selection for relevant persons engagement during development of EP.	Category (1 to 3)	Consultation strategy level (A to D)
Oil & Gas	Western Australia	CNOOC NWS Private Limited;	Titleholder of an offshore petroleum or GHG permit	May have petroleum or GHG activities occurring within the PEZ and has a commercial interest in offshore title(s)	Displacement of other marine users.	11A(1)(d)	Do not overlap area of planned activities but titleholder of offshore petroleum or GHG permit where activities may be occurring within the PEZ.	Category 2	C
Oil & Gas	Western Australia	Eni Australia Limited	Titleholder of an offshore petroleum or GHG permit	May have petroleum or GHG activities occurring within the PEZ and has a commercial interest in offshore title(s)	Displacement of other marine users.	11A(1)(d)	Do not overlap area of planned activities but titleholder of offshore petroleum or GHG permit where activities may be occurring within the PEZ.	Category 2	C
Oil & Gas	Western Australia	EOG Resources Pty Ltd	Titleholder of an offshore petroleum or GHG permit	May have petroleum or GHG activities occurring within the PEZ and has a commercial interest in offshore title(s)	Displacement of other marine users.	11A(1)(d)	Do not overlap area of planned activities but titleholder of offshore petroleum or GHG permit where activities may be occurring within the PEZ.	Category 2	C
Oil & Gas	Western Australia	FinderEnergy Pty Limited	Titleholder of an offshore petroleum or GHG permit	May have petroleum or GHG activities occurring within the PEZ and has a commercial interest in offshore title(s)	Displacement of other marine users.	11A(1)(d)	Do not overlap area of planned activities but titleholder of offshore petroleum or GHG permit where activities may be occurring within the PEZ.	Category 2	C
Oil & Gas	Western Australia	Fugro Exploration Pty Ltd	Titleholder of an offshore petroleum or GHG permit	May have petroleum or GHG activities occurring within the PEZ and has a commercial interest in offshore title(s)	Displacement of other marine users.	11A(1)(d)	Do not overlap area of planned activities but titleholder of offshore petroleum or GHG permit where activities may be occurring within the PEZ.	Category 2	C
Oil & Gas	Western Australia	IPB Petroleum Pty Ltd	Titleholder of an offshore petroleum or GHG permit	May have petroleum or GHG activities occurring within the PEZ and has a commercial interest in offshore title(s)	Displacement of other marine users.	11A(1)(d)	Contacted in January 2022. No further engagement required. In accordance with the new methodology, other titleholders within the PEZ to be consulted with.	Category 2	C
Oil & Gas	Western Australia	Jadestone Energy (Australia) Pty Ltd	Titleholder of an offshore petroleum or GHG permit	May have petroleum or GHG activities occurring within the PEZ and has a commercial interest in offshore title(s)	Displacement of other marine users	11A(1)(d)	Do not overlap area of planned activities but titleholder of offshore petroleum or GHG permit where activities may be occurring within the PEZ.	Category 2	C
Oil & Gas	Western Australia	Japan Australia LNG (MIMI) Pty. Ltd	Titleholder of an offshore petroleum or GHG permit	May have petroleum or GHG activities occurring within the PEZ and has a commercial interest in offshore title(s)	Displacement of other marine users	11A(1)(d)	Do not overlap area of planned activities but titleholder of offshore petroleum or GHG permit where activities may be occurring within the PEZ.	Category 2	C

Category	Jurisdiction/ location or activities	Relevant person	General description	Functions, activities or interests	Are there any environmental values in relation to the EP/PEZ that intersect a persons, organisations, departments or agency's functions, activities or interests?	Categorisation of relevant person under OPGGS (Environment) Regulation 11A(1)A	Basis of selection for relevant persons engagement during development of EP.	Category (1 to 3)	Consultation strategy level (A to D)
Oil & Gas	Western Australia	JERA Pty Ltd	Titleholder of an offshore petroleum or GHG permit	May have petroleum or GHG activities occurring within the PEZ and has a commercial interest in offshore title(s)	Displacement of other marine users	11A(1)(d)	Do not overlap area of planned activities but titleholder of offshore petroleum or GHG permit where activities may be occurring within the PEZ.	Category 2	C
Oil & Gas	Western Australia	JX Nippon Oil and Gas Exploration (Australia) Pty Ltd	Titleholder of an offshore petroleum or GHG permit	May have petroleum or GHG activities occurring within the PEZ and has a commercial interest in offshore title(s)	Displacement of other marine users	11A(1)(d)	Do not overlap area of planned activities but titleholder of offshore petroleum or GHG permit where activities may be occurring within the PEZ.	Category 2	C
Oil & Gas	Western Australia	Kansai Electric Power Australia Pty Ltd	Titleholder of an offshore petroleum or GHG permit	May have petroleum or GHG activities occurring within the PEZ and has a commercial interest in offshore title(s)	Displacement of other marine users	11A(1)(d)	Do not overlap area of planned activities but titleholder of offshore petroleum or GHG permit where activities may be occurring within the PEZ.	Category 2	C
Oil & Gas	Western Australia	Kato Pty Ltd	Titleholder of an offshore petroleum or GHG permit	May have petroleum or GHG activities occurring within the PEZ and has a commercial interest in offshore title(s)	Displacement of other marine users	11A(1)(d)	Do not overlap area of planned activities but titleholder of offshore petroleum or GHG permit where activities may be occurring within the PEZ.	Category 2	C
Oil & Gas	Western Australia	Kufpec (Perth) Pty Ltd	Titleholder of an offshore petroleum or GHG permit	May have petroleum or GHG activities occurring within the PEZ and has a commercial interest in offshore title(s)	Displacement of other marine users	11A(1)(d)	Do not overlap area of planned activities but titleholder of offshore petroleum or GHG permit where activities may be occurring within the PEZ.	Category 2	C
Oil & Gas	Western Australia	Kyushu Electric Wheatstone Pty Ltd	Titleholder of an offshore petroleum or GHG permit	May have petroleum or GHG activities occurring within the PEZ and has a commercial interest in offshore title(s)	Displacement of other marine users	11A(1)(d)	Do not overlap area of planned activities but titleholder of offshore petroleum or GHG permit where activities may be occurring within the PEZ.	Category 2	C
Oil & Gas	Western Australia	Melbana Energy AC/P70 Pty Ltd	Titleholder of an offshore petroleum or GHG permit	May have petroleum or GHG activities occurring within the PEZ and has a commercial interest in offshore title(s)	Displacement of other marine users	11A(1)(d)	Do not overlap area of planned activities but titleholder of offshore petroleum or GHG permit where activities may be occurring within the PEZ.	Category 2	C
Oil & Gas	Western Australia	MEO International Pty Ltd	Titleholder of an offshore petroleum or GHG permit	May have petroleum or GHG activities occurring within the PEZ and has a commercial interest in offshore title(s)	Displacement of other marine users	11A(1)(d)	Do not overlap area of planned activities but titleholder of offshore petroleum or GHG permit where activities may be occurring within the PEZ.	Category 2	C

Category	Jurisdiction/ location or activities	Relevant person	General description	Functions, activities or interests	Are there any environmental values in relation to the EP/PEZ that intersect a persons, organisations, departments or agency's functions, activities or interests?	Categorisation of relevant person under OPGGS (Environment) Regulation 11A(1)A	Basis of selection for relevant persons engagement during development of EP.	Category (1 to 3)	Consultation strategy level (A to D)
Oil & Gas	Western Australia	Mitsui E&P Australia Pty Ltd	Titleholder of an offshore petroleum or GHG permit	May have petroleum or GHG activities occurring within the PEZ and has a commercial interest in offshore title(s)	Displacement of other marine users	11A(1)(d)	Do not overlap area of planned activities but titleholder of offshore petroleum or GHG permit where activities may be occurring within the PEZ.	Category 2	C
Oil & Gas	Western Australia	Mobil Australia Resources Company Pty Limited	Titleholder of an offshore petroleum or GHG permit	May have petroleum or GHG activities occurring within the PEZ and has a commercial interest in offshore title(s)	Displacement of other marine users	11A(1)(d)	Do not overlap area of planned activities but titleholder of offshore petroleum or GHG permit where activities may be occurring within the PEZ.	Category 2	C
Oil & Gas	Western Australia	Murphy Australia Oil Pty Ltd	Titleholder of an offshore petroleum or GHG permit	May have petroleum or GHG activities occurring within the PEZ and has a commercial interest in offshore title(s)	Displacement of other marine users	11A(1)(d)	Do not overlap area of planned activities but titleholder of offshore petroleum or GHG permit where activities may be occurring within the PEZ.	Category 2	C
Oil & Gas	Western Australia	Neptune Energy Bonaparte Pty Limited	Titleholder of an offshore petroleum or GHG permit	May have petroleum or GHG activities occurring within the PEZ and has a commercial interest in offshore title(s)	Displacement of other marine users	11A(1)(d)	Do not overlap area of planned activities but titleholder of offshore petroleum or GHG permit where activities may be occurring within the PEZ.	Category 2	C
Oil & Gas	Western Australia	OMV Australia Pty Ltd	Titleholder of an offshore petroleum or GHG permit	May have petroleum or GHG activities occurring within the PEZ and has a commercial interest in offshore title(s)	Displacement of other marine users	11A(1)(d)	Do not overlap area of planned activities but titleholder of offshore petroleum or GHG permit where activities may be occurring within the PEZ.	Category 2	C
Oil & Gas	Western Australia	OPIC Australia Pty. Limited	Titleholder of an offshore petroleum or GHG permit	May have petroleum or GHG activities occurring within the PEZ and has a commercial interest in offshore title(s)	Displacement of other marine users	11A(1)(d)	Do not overlap area of planned activities but titleholder of offshore petroleum or GHG permit where activities may be occurring within the PEZ.	Category 2	C
Oil & Gas	Western Australia	Origin Energy Browse Pty Ltd	Titleholder of an offshore petroleum or GHG permit	May have petroleum or GHG activities occurring within the PEZ and has a commercial interest in offshore title(s)	Displacement of other marine users	11A(1)(d)	Do not overlap area of planned activities but titleholder of offshore petroleum or GHG permit where activities may be occurring within the PEZ.	Category 2	C
Oil & Gas	Western Australia	Osaka Gas Pty Ltd	Titleholder of an offshore petroleum or GHG permit	May have petroleum or GHG activities occurring within the PEZ and has a commercial interest in offshore title(s)	Displacement of other marine users	11A(1)(d)	Do not overlap area of planned activities but titleholder of offshore petroleum or GHG permit where activities may be occurring within the PEZ.	Category 2	C

Category	Jurisdiction/ location or activities	Relevant person	General description	Functions, activities or interests	Are there any environmental values in relation to the EP/PEZ that intersect a persons, organisations, departments or agency's functions, activities or interests?	Categorisation of relevant person under OPGGS (Environment) Regulation 11A(1)A	Basis of selection for relevant persons engagement during development of EP.	Category (1 to 3)	Consultation strategy level (A to D)
Oil & Gas	Western Australia	Pathfinder Energy Pty Ltd	Titleholder of an offshore petroleum or GHG permit	May have petroleum or GHG activities occurring within the PEZ and has a commercial interest in offshore title(s)	Displacement of other marine users	11A(1)(d)	Do not overlap area of planned activities but titleholder of offshore petroleum or GHG permit where activities may be occurring within the PEZ.	Category 2	C
Oil & Gas	Western Australia	PE Wheatstone Pty Ltd	Titleholder of an offshore petroleum or GHG permit	May have petroleum or GHG activities occurring within the PEZ and has a commercial interest in offshore title(s)	Displacement of other marine users	11A(1)(d)	Do not overlap area of planned activities but titleholder of offshore petroleum or GHG permit where activities may be occurring within the PEZ.	Category 2	C
Oil & Gas	Western Australia	PetroChina International Investment (Australia) Pty Ltd	Titleholder of an offshore petroleum or GHG permit	May have petroleum or GHG activities occurring within the PEZ and has a commercial interest in offshore title(s)	Displacement of other marine users	11A(1)(d)	Do not overlap area of planned activities but titleholder of offshore petroleum or GHG permit where activities may be occurring within the PEZ.	Category 2	C
Oil & Gas	Western Australia	Petronas Carigali (Australia) Pty Ltd	Titleholder of an offshore petroleum or GHG permit	May have petroleum or GHG activities occurring within the PEZ and has a commercial interest in offshore title(s)	Displacement of other marine users	11A(1)(d)	Do not overlap area of planned activities but titleholder of offshore petroleum or GHG permit where activities may be occurring within the PEZ.	Category 2	C
Oil & Gas	Western Australia	PTTEP Australasia Pty Ltd	Titleholder of an offshore petroleum or GHG permit	May have petroleum or GHG activities occurring within the PEZ and has a commercial interest in offshore title(s)	Displacement of other marine users	11A(1)(d)	Do not overlap area of planned activities but titleholder of offshore petroleum or GHG permit where activities may be occurring within the PEZ.	Category 2	C
Oil & Gas	Western Australia	Rouge Rock Pty Ltd	Titleholder of an offshore petroleum or GHG permit	May have petroleum or GHG activities occurring within the PEZ and has a commercial interest in offshore title(s)	Displacement of other marine users	11A(1)(d)	Do not overlap area of planned activities but titleholder of offshore petroleum or GHG permit where activities may be occurring within the PEZ.	Category 2	C
Oil & Gas	Western Australia	Santos WA PVG PTY Ltd.	Titleholder of an offshore petroleum or GHG permit	May have petroleum or GHG activities occurring within the PEZ and has a commercial interest in offshore title(s)	Displacement of other marine users	11A(1)(d)	Contacted in January 2022. No further engagement required. In accordance with the new methodology, other titleholders within the PEZ to be consulted with.	Category 2	C
Oil & Gas	Western Australia	SapuraOMV Upstream (Western Australia) Pty Ltd	Titleholder of an offshore petroleum or GHG permit	May have petroleum or GHG activities occurring within the PEZ and has a commercial interest in offshore title(s)	Displacement of other marine users	11A(1)(d)	Do not overlap area of planned activities but titleholder of offshore petroleum or GHG permit where activities may be occurring within the PEZ.	Category 2	C

Category	Jurisdiction/ location or activities	Relevant person	General description	Functions, activities or interests	Are there any environmental values in relation to the EP/PEZ that intersect a persons, organisations, departments or agency's functions, activities or interests?	Categorisation of relevant person under OPGGS (Environment) Regulation 11A(1)A	Basis of selection for relevant persons engagement during development of EP.	Category (1 to 3)	Consultation strategy level (A to D)
Oil & Gas	Western Australia	Shell Australia Pty Ltd	Titleholder of an offshore petroleum or GHG permit	May have petroleum or GHG activities occurring within the PEZ and has a commercial interest in offshore title(s)	Displacement of other marine users	11A(1)(d)	Contacted in January 2022. No further engagement required. In accordance with the new methodology, other titleholders within the PEZ to be consulted with.	Category 2	C
Oil & Gas	Western Australia	SK E&S Australia Pty Ltd	Titleholder of an offshore petroleum or GHG permit	May have petroleum or GHG activities occurring within the PEZ and has a commercial interest in offshore title(s)	Displacement of other marine users	11A(1)(d)	Do not overlap area of planned activities but titleholder of offshore petroleum or GHG permit where activities may be occurring within the PEZ.	Category 2	C
Oil & Gas	Western Australia	Timor Gap Greater Sunrise RL Unipessoal, LDA	Titleholder of an offshore petroleum or GHG permit	May have petroleum or GHG activities occurring within the PEZ and has a commercial interest in offshore title(s)	Displacement of other marine users	11A(1)(d)	Do not overlap area of planned activities but titleholder of offshore petroleum or GHG permit where activities may be occurring within the PEZ.	Category 2	C
Oil & Gas	Western Australia	Toho Gas Ichthys Development Pty Ltd	Titleholder of an offshore petroleum or GHG permit	May have petroleum or GHG activities occurring within the PEZ and has a commercial interest in offshore title(s)	Displacement of other marine users	11A(1)(d)	Do not overlap area of planned activities but titleholder of offshore petroleum or GHG permit where activities may be occurring within the PEZ.	Category 2	C
Oil & Gas	Western Australia	Tokyo Gas Pty Ltd	Titleholder of an offshore petroleum or GHG permit	May have petroleum or GHG activities occurring within the PEZ and has a commercial interest in offshore title(s)	Displacement of other marine users	11A(1)(d)	Do not overlap area of planned activities but titleholder of offshore petroleum or GHG permit where activities may be occurring within the PEZ.	Category 2	C
Oil & Gas	Western Australia	Total E&P Australia	Titleholder of an offshore petroleum or GHG permit	May have petroleum or GHG activities occurring within the PEZ and has a commercial interest in offshore title(s)	Displacement of other marine users	11A(1)(d)	Do not overlap area of planned activities but titleholder of offshore petroleum or GHG permit where activities may be occurring within the PEZ.	Category 2	C
Oil & Gas	Western Australia	Vermilion Oil & Gas Australia Pty Ltd	Titleholder of an offshore petroleum or GHG permit	May have petroleum or GHG activities occurring within the PEZ and has a commercial interest in offshore title(s)	Displacement of other marine users	11A(1)(d)	Do not overlap area of planned activities but titleholder of offshore petroleum or GHG permit where activities may be occurring within the PEZ.	Category 2	C
Oil & Gas	Western Australia	Western Gas (518 P) Pty Ltd	Titleholder of an offshore petroleum or GHG permit	May have petroleum or GHG activities occurring within the PEZ and has a commercial interest in offshore title(s)	Displacement of other marine users	11A(1)(d)	Do not overlap area of planned activities but titleholder of offshore petroleum or GHG permit where activities may be occurring within the PEZ.	Category 2	C

Category	Jurisdiction/ location or activities	Relevant person	General description	Functions, activities or interests	Are there any environmental values in relation to the EP/PEZ that intersect a persons, organisations, departments or agency's functions, activities or interests?	Categorisation of relevant person under OPGGS (Environment) Regulation 11A(1)A	Basis of selection for relevant persons engagement during development of EP.	Category (1 to 3)	Consultation strategy level (A to D)
Oil & Gas	Western Australia	Woodside Energy	Titleholder of an offshore petroleum or GHG permit	May have petroleum or GHG activities occurring within the PEZ and has a commercial interest in offshore title(s)	Displacement of other marine users	11A(1)(d)	Contacted in January 2022. No further engagement required. In accordance with the new methodology, other titleholders within the PEZ to be consulted with.	Category 2	C
eNGO	Western Australia	Conservation Council of WA (CCWA)	Four broad policy and campaign areas: Nature and Wildlife; Waste and Recycling; Climate Change, Energy and Fossil Fuels and Environmental Regulations and Pollution Control. Represent more than 100 environmental organisations across WA.	Represents more than 100 environmental organisations across WA with an advocacy function for environmental issues	Marine and terrestrial habitats and species found in the PEZ. GHG emissions generated from EP activities.	11A(1)(d)	Represent WA-based environmental organisations with local branches within the PEZ.	Category 3	C
eNGO	Western Australia	Environs Kimberley	Peak environmental NGO for the Kimberley region in far north-west Australia. (Member of Conservation Council of WA)	Plays an advocacy function to protect both indigenous heritage and the natural environment of global significance in the Kimberley region	Marine and terrestrial habitats and species, and cultural values found in the PEZ.	11A(1)(d)	Kimberley based environmental NGO based within the PEZ.	Category 3	C
eNGO	Western Australia	The Kimberley - Like Nowhere Else	Environmental NGO for Kimberley region.	Plays an advocacy function to protect both indigenous heritage and the natural environment of global significance in the Kimberley region	Marine and terrestrial habitats and species, and cultural values found in the PEZ.	11A(1)(d)	Kimberley based environmental NGO based within the PEZ.	Category 3	C
eNGO	Western Australia	Roebuck Bay Working Group	Environmental NGO for Roebuck Bay comprised of Traditional Owners government, local community, conservation groups and business.	Function to raise awareness and encourage research and monitoring, to support responsible management and protection of Roebuck Bay's natural and cultural values	Marine and terrestrial habitats and species, and cultural values found in the PEZ including Ramsar, National Heritage listed wetland and Yawuru Nagulagun Roebuck Bay Marine Park.	11A(1)(d)	Kimberley based environmental NGO based within the PEZ.	Category 3	C
eNGO	Western Australia	Save the Kimberley	Environmental NGO for Kimberley region.	Plays an advocacy function to protect the natural environment of the Kimberley region from large-scale industrial developments	Marine and terrestrial habitats and species, and cultural values found in the PEZ.	11A(1)(d)	Kimberley based environmental NGO based within the PEZ.	Category 3	C

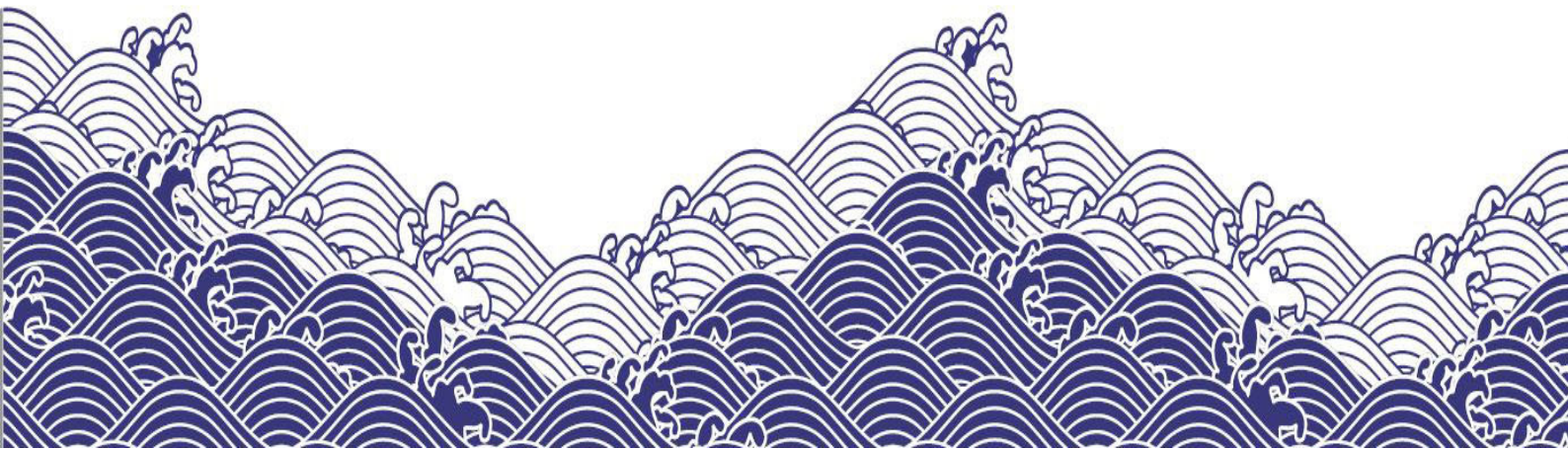


Category	Jurisdiction/ location or activities	Relevant person	General description	Functions, activities or interests	Are there any environmental values in relation to the EP/PEZ that intersect a persons, organisations, departments or agency's functions, activities or interests?	Categorisation of relevant person under OPGGS (Environment) Regulation 11A(1)A	Basis of selection for relevant persons engagement during development of EP.	Category (1 to 3)	Consultation strategy level (A to D)
eNGO	Northern Territory	The Environment Centre NT (ECNT)	The ECNT is a peak not-for-profit community sector environment organisation in the NT.	Plays an advocacy function to protect the natural environment of the NT	Marine and terrestrial habitats and species found in the PEZ. GHG emissions generated from EP activities.	11A(1)(d)	NT based environmental NGO based within the PEZ.	Category 3	C
eNGO	Western Australia	The Wilderness Society (WA)	Part of national environmental NGO with several key focus areas including stopping new fossil fuel projects and promoting regulatory change. (Focus on Kimberley Region and Great Australian Bight).	Plays an advocacy function for environmental issues in WA	Marine and terrestrial habitats and species found in the PEZ. GHG emissions generated from EP activities.	11A(1)(d)	WA based environmental NGO based within the PEZ.	Category 3	C
eNGO	Northern Territory	Top End Coasts	Keep Top End Coasts Healthy works with the community, stakeholders and government to safeguard the health of Top End coasts to secure the lifestyle, culture and fishing is maintained. Consists of an alliance of environment groups including the Australian Marine Conservation Society, the Pew Charitable Trusts and the ECNT.	Plays an advocacy function to protect the natural environment of the NT	Marine and terrestrial habitats and species found in the PEZ.	11A(1)(d)	NT (Darwin) based environmental NGO based within the PEZ.	Category 3	C
eNGO	Northern Territory	Territory Natural Resource Management	Territory Natural Resource Management (TNRM) is an independent not for profit, membership-based organisation which has been working with landholders, community groups, industry and government since 2003, to ensure sustainable management of water, land, soils and biodiversity in the NT.	Plays an advocacy function to protect the natural environment of the NT	Marine and terrestrial habitats and species found in the PEZ.	11A(1)(d)	NT (Darwin) based environmental NGO based within the PEZ.	Category 3	C

\*this reflects the greatest accumulation predicted for any point on the shoreline during any replicate spill simulation and as such represents an extreme estimate.



## Appendix B.4– Consultation **materials**



## Table of contents

Publication/platform (link to subsection)	Method	Dates	Locations
EP summary website	Dedicated website	9 January 2023 - ongoing	Global
INPEX Australia Website	Online post/advertisement	9 January 2023 - ongoing	Global
INPEX Australia LinkedIn	Social media advertisement/post	7 March 2023 5 April 2023 7 – 23 July 2023	Global
INPEX Australia Facebook	Social media advertisement/post	7 March 2023 5 April 2023 7 – 23 July 2023	Global
INPEX Australia Instagram	Social media advertisement/post	7 March 2023 5 April 2023 7 – 23 July 2023	Global
Broome Advertiser	Newspaper advertisement	1 March 2023 29 June 2023	Broome, Derby, Fitzroy Crossing, Karratha, Kununurra
Pilbara News	Newspaper advertisement	1 March 2023 28 June 2023	Dampier, Karratha, Onslow, Pannawonica, Paraburdoo, Point Samson, Roebourne, Tom Price, Wickham, Exmouth, Coral Bay
Northwest Telegraph	Newspaper advertisement	1 March 2023 28 June 2023	Marble Bar, Newman, Nullagine, Port Hedland, South Hedland, Wedgefield.
Kimberley Echo	Newspaper advertisement	2 March 2023 29 June 2023	Argyle Diamond Mine, Broome, Darwin, Derby, Fitzroy Crossing, Halls Creek, Katherine, Kununurra, Wyndham.
NT News	Newspaper advertisement	24 February 2023 28 June 2023	Alice Springs, Bathurst Island, Darwin, Groote Eylandt, Jabiru, Katherine, Maningrida, Milikapiti, Nauiyu Nambiyu, Nhulunbuy, Palmerston, Pirlangimpi, Port Keats, Tennant Creek, Uluru/Yulara.

Appendix B.4 Exploration Drilling WA-285-P & WA-343-P EP

Sunday Times	Newspaper advertisement	26 February 2023 2 July 2023	Western Australia
The Australian	Newspaper advertisement	24 February 2023 28 June 2023	Australia wide
The West Australian	Newspaper advertisement	24 February 2023 28 June 2023	Western Australia
Broome Chamber of Commerce and Industry Newsletter	Other advertisement	14 February 2023	Broome region
Kununurra Visitors Centre Newsletter	Other advertisement	14 February 2023	Kununurra region
East Kimberley Chamber of Commerce and Industry Newsletter	Other advertisement	10 February 2023	East Kimberley region
Broome Visitors Centre Newsletter	Other advertisement	February 2023	Broome region
Northern Territory Seafood Council Newsletter	Other advertisement	April 2023	Northern Territory
6DBY – Larrkardi Radio	Radio advertisement	3 - 16 July 2023 – 4 times per day	Derby region
6HCR – Radio Mulba	Radio advertisement	3 - 16 July 2023 – 4 times per day	Karratha/Roebourne region
8KTR – Kathrine Community Radio	Radio advertisement	3 - 16 July 2023 – 4 times per day	Katherine region
6WR – Waringarri Radio	Radio advertisement	3 - 16 July 2023 – 4 times per day	Kununurra region
8TEA – Top End Aboriginal Bush Broadcasting Association	Radio advertisement	3 - 16 July 2023 – 4 times per day	Northern Territory

EP summary website

[https://anz.planengage.com/bonaparte\\_basin\\_appraisal/page/Home](https://anz.planengage.com/bonaparte_basin_appraisal/page/Home)

**Bonaparte Basin Offshore Exploration Drilling and 3D Seismic Survey**

Feedback 🔍 ⚙️

**What is an environment plan?**

The *Offshore Petroleum and Greenhouse Gas Storage Act 2006* (OPGG Act) and associated regulations provides the legal framework for the exploration and recovery of petroleum and greenhouse gas activities in **Commonwealth waters** which are administered by the National Offshore Petroleum Safety and Environmental Management Authority (NOPSEMA).

The purpose of an Environment Plan (EP) is for the titleholder of an offshore petroleum or greenhouse gas permit, to document their case for why their **Petroleum Activity** or **Greenhouse Gas Activity** meets the objects of the Offshore Petroleum and Greenhouse Gas Storage (Environment) Regulations 2009 (OPGG Environment Regulations).

An EP is a document submitted to NOPSEMA for assessment prior to the commencement of an activity, which contains information on:

- description of the activity
- description of the existing environment (natural, cultural and social)
- environmental risk assessment
- environmental management measures and commitments
- details of the titleholder and other information specified the OPGG Environment Regulations.

The OPGG Environment Regulations require a titleholder to have an accepted EP in place prior to undertaking any offshore **Petroleum Activity** or **Greenhouse Gas Activity**, and require that the titleholder undertakes the activity in accordance with the EP.

**EP consultation requirements**

When developing or revising an EP titleholders must identify and consult with **Relevant Persons** in accordance with OPGG Environment Regulation 11A.

A recent appeal decision made by the Federal Court of Australia in Santos NA Barossa Pty Ltd v Tipakalippa [2022] FCAFC 193 on 02 December 2022, represents the law regarding requirements for consultation in accordance with the OPGG Environment Regulations.

The purpose of this website is to offer an opportunity for people to learn more about INPEX's proposed offshore activities and provide comments and feedback if they feel their **Functions, Activities** or **Interests** may be affected by the activity. This will assist INPEX in identifying further relevant persons as defined by the OPGG Environment Regulations.

**PROVIDE FEEDBACK**

INPEX Australia Website  
<https://www.inpex.com.au/sustainability/environment/>

Home Sustainability Environment

## Environment



*We take pride in the delivery of onshore and offshore marine monitoring programs, developing innovative research partnerships and robust management plans to reduce our environmental footprint.*

Working alongside reputable research scientists, we invest in programs to build a wealth of data, which supports better understanding and protection of the environments where we operate.

Our programs are focused on developing responsible management approaches to protect the environment, while supporting development and meeting the expectations of the communities where work and of which we are proud to be a part.

### We are committed to:

- ensuring our people are competent with the appropriate training, environmental knowledge and adequate resources to support sound environmental management
- empowering our people to identify risks and intervene to prevent environmental harm
- investing in development and implementation of onshore and offshore marine monitoring programs
- compliance with environmental obligations and commitments through risk reduction and implementation of effective control measures
- driving ongoing improvement in environmental performance through monitoring, auditing and review
- building greater knowledge and skills to support protection of the environment

## PROPOSED OFFSHORE ENERGY ACTIVITIES

### 1. Greenhouse gas storage exploration and assessment activities

The INPEX-led Bonaparte CCS Assessment Joint Venture of greenhouse gas assessment permit C-7 AP proposes to undertake a three-dimensional seismic survey, geophysical/geotechnical survey and exploration drilling in the Bonaparte Basin, approximately 90 kilometres offshore from the Northern Territory coastline and approximately 170 kilometres from the coast of Western Australia.

You are invited to find out more information on these activities or provide comment by visiting [http://env.inpex.com/bonaparte\\_basin\\_assessment/home](http://env.inpex.com/bonaparte_basin_assessment/home)

### 2. Exploration drilling WA-285-P and WA-343-P

INPEX, as the nominated Titleholder of offshore exploration permits WA-285-P and WA-343-P, proposes to undertake exploration drilling in the Browse Basin offshore Western Australia.

At the closest point, the area of the planned activities is located approximately 178 kilometres from the coast of Western Australia and approximately 605 kilometres offshore from the Northern Territory coastline.

You are invited to find out more information on these activities or provide comment by visiting [http://env.inpex.com/exploration\\_drilling\\_285\\_343/home](http://env.inpex.com/exploration_drilling_285_343/home)

Your views on these activities are important to us. If you have any questions please contact the consultation team on [explorationsurvey@inpex.com.au](mailto:explorationsurvey@inpex.com.au) or call 1800 785 010.

# We're here for **sustainable energy**

We're here for sustainable energy solutions, supporting a lower-carbon tomorrow.

[Learn more →](#)



## **Environment**

Feedback is welcome on INPEX's proposed offshore activities and supporting environment plans.

[Learn more →](#)



## **Careers**

Our people, our culture and the opportunities we offer set us apart.

[Learn more →](#)

INPEX Australia LinkedIn



**INPEX**

124,580 followers

2d •



INPEX has planned offshore activities currently open for consultation. We would like to hear from you or your organisation if you consider yourself to be a relevant person.

You are invited to find out more information on these activities or provide comment by visiting the below websites.

Browse Basin Offshore Exploration Drilling WA-285-P/WA-343-P

<https://lnkd.in/gxqtYnDP>

Bonaparte Basin Offshore Exploration Drilling and 3D Seismic Survey

<https://lnkd.in/g4EbXM3u>



## Environment plans

INPEX is a global energy company committed to sustainable and responsible resource development.

We plan on conducting offshore activities and wish to hear from relevant persons whose functions, interests and activities may be affected. These may include cultural and spiritual connections, commercial or recreational activities offshore, tourism or local community interests.

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### Browse Basin Offshore Exploration Drilling WA-285-P/WA-343-P

INPEX proposes to undertake exploration drilling in the Browse Basin offshore Western Australia. Located wholly within Commonwealth waters, at the closest point the area of the planned activities is located approximately 360km from Derby and 665km from the Northern Territory coastline.



### Bonaparte Basin Offshore Exploration Drilling and 3D Seismic Survey

INPEX proposes to undertake a 3D seismic survey and exploration drilling in the Bonaparte Basin, offshore Western Australia and the Northern Territory. Located wholly within Commonwealth waters, at the closest point the area of the planned activities is located approximately 175km from Darwin and 280km from Wyndham.

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#### Contact us

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INPEX Australia Facebook



INPEX Australia

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You are invited to find out more information on these activities or provide comment by visiting the below websites.

Browse Basin Offshore Exploration Drilling WA-285-P/WA-343-P

[https://anz.planengage.com/exploration\\_drilling.../page/Home](https://anz.planengage.com/exploration_drilling.../page/Home)

Bonaparte Basin Offshore Exploration Drilling and 3D Seismic Survey

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## Environment plans

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INPEX Australia Instagram

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**Browse Basin Offshore Exploration Drilling WA-285-P/WA-343-P**

INPEX proposes to undertake exploration drilling in the Browse Basin offshore Western Australia. Located wholly within Commonwealth waters, at the closest point the area of the planned activities is located approximately 350km from Derby and 665km from the Northern Territory coastline.

**Bonaparte Basin Offshore Exploration Drilling and 3D Seismic Survey**

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Liked by [redacted] and others

**inpexau** INPEX has planned offshore activities currently open for consultation. We would like to hear from you or your organisation if you consider yourself to be a relevant person.

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[https://anz.planengage.com/exploration\\_drilling\\_285\\_343/page/Home](https://anz.planengage.com/exploration_drilling_285_343/page/Home)

**Bonaparte Basin Offshore Exploration Drilling and 3D Seismic Survey:**  
[https://anz.planengage.com/bonaparte\\_basin\\_appraisal/page/Home](https://anz.planengage.com/bonaparte_basin_appraisal/page/Home)

Broome Advertiser



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Northwest Telegraph



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Kimberley Echo



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NT News



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Sunday Times



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The Australian



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The West Australian



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## **PROPOSED OFFSHORE ENERGY ACTIVITIES EXPLORATION DRILLING WA-285-P AND WA-343-P**

**INPEX**, as the nominated Titleholder of offshore exploration permits WA-285-P and WA-343-P, proposes to undertake exploration drilling in the Browse Basin offshore Western Australia. At the closest point, the area of the planned activities is located approximately 178 kilometres from the coast of Western Australia.

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East Kimberley Chamber of Commerce and Industry Newsletter



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Broome Visitors Centre Newsletter

The INPEX logo is displayed in white, bold, uppercase letters on a dark blue rectangular background.A decorative graphic of stylized waves in shades of blue and white, extending across the top of the page.

## INPEX PROPOSED OFFSHORE ENERGY ACTIVITIES

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**INPEX will be holding a drop-in information session  
at the Broome Visitors Centre on  
Thursday 9 February from 3:00pm - 5:00pm.**

A subject matter expert will be present during these hours and we invite you to attend with any questions you may have regarding the proposed offshore activities.

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## Northern Territory Seafood Council Newsletter



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Radio advertisements: script

***At INPEX, we're focused on delivering energy – sustainably and responsibly.***

***We have developed environment plans for future offshore activities, 220 kilometres off the Kimberley coast. And in the Bonaparte Basin, 195 kilometres west of Darwin and 150 kilometres north of Wadeye.***

***INPEX seeks to consult on the environment plans with relevant persons whose functions, interests and activities might be affected by the offshore activities – this may include spiritual or cultural connection to land or to sea country, tourism, recreational and commercial fishing and local communities.***

***Consultation helps us to understand what is important to relevant persons when we develop environment plans. Your feedback is important to us.***

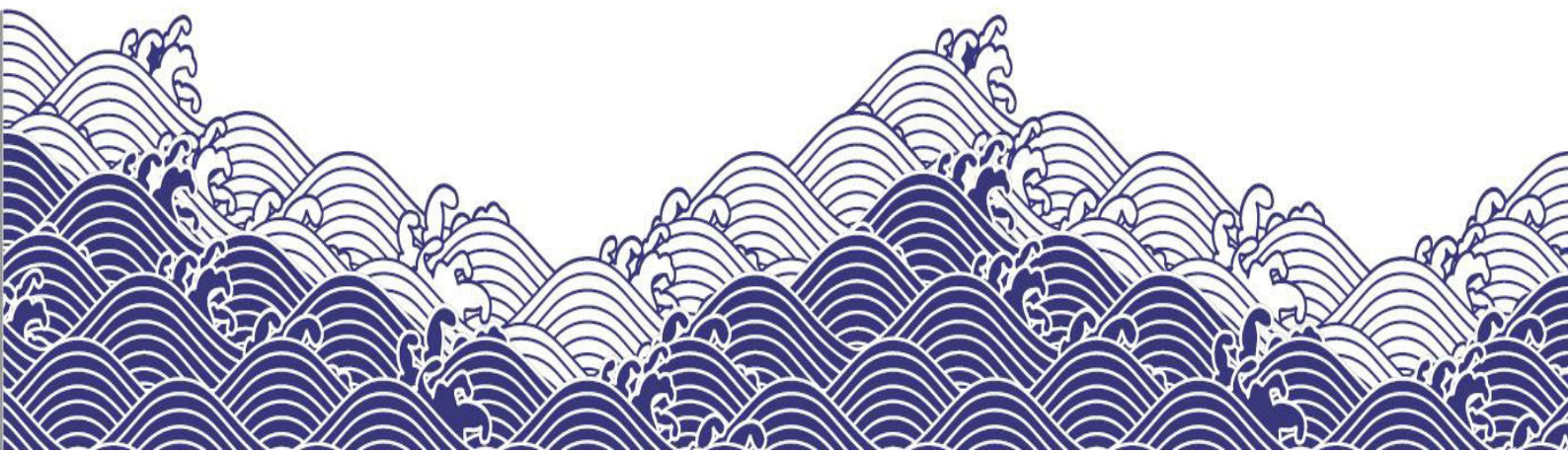
***For more information contact 1800 705 010 or visit [www.inpex.com.au](http://www.inpex.com.au).***

***Authorised by INPEX Operations Australia Proprietary Limited***





Appendix B.5–  
Consultation **summary report** 2022



STAKEHOLDER	Date of Correspondence	Type of Correspondence	Summary of Relevant Person Correspondence (Identifying any objection / claim/relevant matters) / Statement of INPEX response	Attachments	Assessment of Merit	Summary of response and resulting changes made to the EP
<b>Authorities</b>						
Australian Border Force (ABF), Broome Office (Cwth)	31/01/2022	Email/letter to stakeholder from INPEX	Email and fact sheet sent to stakeholder with details of proposed Browse Basin offshore exploration drilling activities that INPEX plans to conduct in exploration titles WA-343-P and WA-285-P, offshore north-west Australia between 2023 to 2025. The fact sheet summarises the activities including: - the location and schedule of activity - a description of the exploration drilling activities - safety exclusion zones in place during the conduct of the activities; and - environmental management approaches INPEX requested that stakeholders provide feedback or queries regarding the proposed activities by 1 March 2022. INPEX requested that the stakeholder advise INPEX of any provided information/comments that is not suitable for public disclosure, and advised that such information will be omitted/redacted from the published EP and provided separately and privately to NOPSEMA.	Yes - activity fact sheet	N/A - consultation sent by INPEX	N/A
Australian Border Force (ABF), Canberra Office (Cwth)	31/01/2022	Email/letter to stakeholder from INPEX	Email and fact sheet sent to stakeholder with details of proposed Browse Basin offshore exploration drilling activities that INPEX plans to conduct in exploration titles WA-343-P and WA-285-P, offshore north-west Australia between 2023 to 2025. The fact sheet summarises the activities including: - the location and schedule of activity - a description of the exploration drilling activities - safety exclusion zones in place during the conduct of the activities; and - environmental management approaches INPEX requested that stakeholders provide feedback or queries regarding the proposed activities by 1 March 2022. INPEX requested that the stakeholder advise INPEX of any provided information/comments that is not suitable for public disclosure, and advised that such information will be omitted/redacted from the published EP and provided separately and privately to NOPSEMA.	Yes - activity fact sheet	N/A - consultation sent by INPEX	N/A
Australian Border Force (ABF), Darwin Office (Cwth)	31/01/2022	Email/letter to stakeholder from INPEX	Email and fact sheet sent to stakeholder with details of proposed Browse Basin offshore exploration drilling activities that INPEX plans to conduct in exploration titles WA-343-P and WA-285-P, offshore north-west Australia between 2023 to 2025. The fact sheet summarises the activities including: - the location and schedule of activity - a description of the exploration drilling activities - safety exclusion zones in place during the conduct of the activities; and - environmental management approaches INPEX requested that stakeholders provide feedback or queries regarding the proposed activities by 1 March 2022. INPEX requested that the stakeholder advise INPEX of any provided information/comments that is not suitable for public disclosure, and advised that such information will be omitted/redacted from the published EP and provided separately and privately to NOPSEMA.	Yes - activity fact sheet	N/A - consultation sent by INPEX	N/A
Australian Communications and Media Authority (ACMA) - submarine communication cables	18/02/2022	Email/letter to stakeholder from INPEX	Email and fact sheet sent to stakeholder with details of proposed Browse Basin offshore exploration drilling activities that INPEX plans to conduct in exploration titles WA-343-P and WA-285-P, offshore north-west Australia between 2023 to 2025. The fact sheet summarises the activities including: - the location and schedule of activity - a description of the exploration drilling activities - safety exclusion zones in place during the conduct of the activities; and - environmental management approaches INPEX requested that stakeholders provide feedback or queries regarding the proposed activities by 1 March 2022. INPEX requested that the stakeholder advise INPEX of any provided information/comments that is not suitable for public disclosure, and advised that such information will be omitted/redacted from the published EP and provided separately and privately to NOPSEMA.	Yes - activity fact sheet	N/A - consultation sent by INPEX	N/A
	1/03/2022	Email / Letter from stakeholder	Stakeholder thanked INPEX for opportunity to comment on proposed activity. ACMA outlined that The ACMA regulates the submarine cable regime as set out in Schedule 3A to the Telecommunications Act 1997. ACMA provided a link to website for more information about the work the ACMA does in this area including a map of all international submarine cable landings in Australia. ACMA requested INPEX to note that the project is in the vicinity of the North-West Cable System (SKIRON), a domestic submarine cable owned by Nextgen Networks/Vocus Group. ACMA encouraged INPEX to contact the operator of any submarine cables in the identified waters, if you have not already done so. ACMA encouraged INPEX to get in contact if further information is needed.	No	Relevant matter - stakeholder has provided information relevant to the petroleum activity and/ or the stakeholders functions, interest or activities.	INPEX contacted Vocus who confirmed there are no other cables in the proposed area of the activity. The existing environment described in Section 4 of the EP includes the NWCS (refer Section 4.12.4). The stakeholder raised no concerns or objections regarding the activity.
	1/03/2022	Email/letter to stakeholder from INPEX	INPEX thanked ACMA for email and guidance. INPEX advised they will initiate necessary consultation with Vocus Communications Group. INPEX requested ACMA to advise if there are any other operators we need to consult with in regards of this specific activity.	No	N/A - consultation sent by INPEX	N/A
	7/03/2022	Email / Letter from stakeholder	Stakeholder thanked INPEX for response and for acknowledging to contact Vocus Communications. Stakeholder advised they did not identify any other cables in the vicinity of this activity. Stakeholder encouraged INPEX to obtain all regulatory approvals as required for the project.	No	Not a relevant matter - general correspondence only	N/A
Australian Fisheries Management Authority (AFMA) (Cwth)	31/01/2022	Email/letter to stakeholder from INPEX	Email and fact sheet sent to stakeholder with details of proposed Browse Basin offshore exploration drilling activities that INPEX plans to conduct in exploration titles WA-343-P and WA-285-P, offshore north-west Australia between 2023 to 2025. The fact sheet summarises the activities including: - the location and schedule of activity - a description of the exploration drilling activities - safety exclusion zones in place during the conduct of the activities; and - environmental management approaches INPEX requested that stakeholders provide feedback or queries regarding the proposed activities by 1 March 2022. INPEX requested that the stakeholder advise INPEX of any provided information/comments that is not suitable for public disclosure, and advised that such information will be omitted/redacted from the published EP and provided separately and privately to NOPSEMA.	Yes - activity fact sheet	N/A - consultation sent by INPEX	N/A
	4/02/2022	Email/letter from stakeholder	Confirmation of receipt. AFMA stated that due to limited resources AFMA is unable to comment on individual proposals, however, it is important to continue consulting with all fishers who have entitlements to fish within the proposed area. This can be done through the relevant fishing industry associations or directly with fishers who hold entitlements in the area.	No	Relevant matter - stakeholder has provided information relevant to the petroleum activity and/ or the stakeholders functions, interest or activities.	INPEX will notify relevant licence holders of any future developments associated with the Project. This has been incorporated into Section 7 (Impact and risk assessment) and Section 9 (Environmental management implementation strategy) of the EP (refer Section 9.8.3). The stakeholder raised no concerns or objections regarding the activity.
	8/02/2022	Email/letter from INPEX	INPEX thanked AFMA for response. INPEX confirmed they will consult with fishers who have entitlements to fish within the proposed area.	No	N/A - consultation sent by INPEX	N/A
Australian Hydrographic Office (AHO) - Department of Defence	31/01/2022	Email/letter to stakeholder from INPEX	Email and fact sheet sent to stakeholder with details of proposed Browse Basin offshore exploration drilling activities that INPEX plans to conduct in exploration titles WA-343-P and WA-285-P, offshore north-west Australia between 2023 to 2025. The fact sheet summarises the activities including: - the location and schedule of activity - a description of the exploration drilling activities - safety exclusion zones in place during the conduct of the activities; and - environmental management approaches INPEX requested that stakeholders provide feedback or queries regarding the proposed activities by 1 March 2022. INPEX requested that the stakeholder advise INPEX of any provided information/comments that is not suitable for public disclosure, and advised that such information will be omitted/redacted from the published EP and provided separately and privately to NOPSEMA.	Yes - activity fact sheet	N/A - consultation sent by INPEX	N/A
	1/02/2022	Email/letter from stakeholder	Confirmation of receipt.	No	N/A - general correspondence only	N/A
Australian Maritime Safety Authority (AMSA) - Nautical Advice	28/01/2022	Email/letter to stakeholder from INPEX	Email and fact sheet sent to stakeholder with details of proposed Browse Basin offshore exploration drilling activities that INPEX plans to conduct in exploration titles WA-343-P and WA-285-P, offshore north-west Australia between 2023 to 2025. The fact sheet summarises the activities including: - the location and schedule of activity - a description of the exploration drilling activities - safety exclusion zones in place during the conduct of the activities; and - environmental management approaches INPEX requested that stakeholders provide feedback or queries regarding the proposed activities by 1 March 2022. INPEX requested that the stakeholder advise INPEX of any provided information/comments that is not suitable for public disclosure, and advised that such information will be omitted/redacted from the published EP and provided separately and privately to NOPSEMA.	Yes - activity fact sheet	N/A - consultation sent by INPEX	N/A
	31/01/2022	Email/letter to stakeholder from INPEX	Email and fact sheet sent to stakeholder with details of proposed Browse Basin offshore exploration drilling activities that INPEX plans to conduct in exploration titles WA-343-P and WA-285-P, offshore north-west Australia between 2023 to 2025. The fact sheet summarises the activities including: - the location and schedule of activity - a description of the exploration drilling activities - safety exclusion zones in place during the conduct of the activities; and - environmental management approaches INPEX requested that stakeholders provide feedback or queries regarding the proposed activities by 1 March 2022. INPEX requested that the stakeholder advise INPEX of any provided information/comments that is not suitable for public disclosure, and advised that such information will be omitted/redacted from the published EP and provided separately and privately to NOPSEMA.	Yes - activity fact sheet	N/A - consultation sent by INPEX	N/A
	1/02/2022	Email/letter from stakeholder	Confirmation of receipt. AMSA requested INPEX ensure that timely and relevant Maritime Safety Information (MSI) is promulgated for the area and nature of your operations. AMSA advised that to promulgate MSI, INPEX should: 1. Contact the Australian Hydrographic Office at datacentre@hydro.gov.au no less than four weeks before operations, with details relevant to the operations. The AHO will promulgate the appropriate Notice to Mariners (NTM), which will ensure other vessels receive information of your activities. 2. Notify AMSA's Joint Rescue Coordination Centre (JRCC) by e-mail to rccaus@amsa.gov.au (Phone: 1800 641 792 or +61 2 6230 6811) for promulgation of radio-navigation warnings at least 24-48 hours before operations commence. AMSA's JRCC will require the vessel details (including name, call sign and Maritime Mobile Service Identity (MMSI)), satellite communications details (including INMARSAT-C and satellite telephone numbers), area of operation, requested clearance from other vessels and any other information that may contribute to safety at sea. JRCC will also need to be advised when operations start and end. 3. Plan to provide updates to both the Australian Hydrographic Office and the JRCC on progress and, importantly, any changes to the intended operations. AMSA outlined they remind vessels of their obligation to comply with the International Rules for Preventing Collisions at Sea (COLREGS), in particular, the use of appropriate lights and shapes to reflect the nature of your operations (e.g. restricted in the ability to manoeuvre). Vessels should also ensure their navigation status is set correctly in the ship's AIS unit. AMSA informed INPEX that to obtain a vessel traffic plot showing Automatic Identification System (AIS) traffic data for the area of interest, please visit AMSA's spatial data gateway and Spatial@AMSA portal to download digital data sets and maps. A form for requesting customised information and data is also available via the portal (fees may apply).	No	Relevant matter - stakeholder has provided information relevant to the petroleum activity and/ or the stakeholders functions, interest or activities.	INPEX will provide the requested notifications AHO and JRCC at the requested frequency (refer to Section 9.8.3, Table 9.6 of the EP). Vessel navigational lighting is managed in accordance with the Navigation Act and associated Marine Orders, which align with COLREGS requirements (refer Table 7-1, Table 7-15 and Table 8-9 of the EP). INPEX accessed data from the AMSA portal to obtain spatial data and vessel tracking data is presented in Figure 4-9. The stakeholder raised no concerns or objections regarding the activity.
Australian Maritime Safety Authority (AMSA) - Marine Pollution Response	1/03/2022	Email/letter to stakeholder from INPEX	Email and fact sheet sent to stakeholder with details of proposed Browse Basin offshore exploration drilling activities that INPEX plans to conduct in exploration titles WA-343-P and WA-285-P, offshore north-west Australia between 2023 to 2025. The fact sheet summarises the activities including: - the location and schedule of activity - a description of the exploration drilling activities - safety exclusion zones in place during the conduct of the activities; and - environmental management approaches INPEX requested that stakeholders provide feedback or queries regarding the proposed activities by 1 March 2022. INPEX requested that the stakeholder advise INPEX of any provided information/comments that is not suitable for public disclosure, and advised that such information will be omitted/redacted from the published EP and provided separately and privately to NOPSEMA.	Yes - activity fact sheet	N/A - consultation sent by INPEX	N/A
	1/03/2022	Email/letter to stakeholder from INPEX	INPEX followed up with stakeholder to ensure that they received the notification sent on the 28/01/2022.	Yes - activity fact sheet	N/A - consultation sent by INPEX	N/A
Australian Petroleum Production and Exploration (APPEA) - Oil Spill Working Group	31/01/2022	Email/letter to stakeholder from INPEX	Email and fact sheet sent to stakeholder with details of proposed Browse Basin offshore exploration drilling activities that INPEX plans to conduct in exploration titles WA-343-P and WA-285-P, offshore north-west Australia between 2023 to 2025. The fact sheet summarises the activities including: - the location and schedule of activity - a description of the exploration drilling activities - safety exclusion zones in place during the conduct of the activities; and - environmental management approaches INPEX requested that stakeholders provide feedback or queries regarding the proposed activities by 1 March 2022. INPEX requested that the stakeholder advise INPEX of any provided information/comments that is not suitable for public disclosure, and advised that such information will be omitted/redacted from the published EP and provided separately and privately to NOPSEMA.	Yes - activity fact sheet	N/A - consultation sent by INPEX	N/A
	31/01/2022	Email/letter from stakeholder	Confirmation of receipt. Stakeholder thanked INPEX for consultation.	No	Not a relevant matter - general correspondence only	N/A
Department of Agriculture, Water and Environment (DAWE) - Biosecurity (Marine Pests) (Vessels, aircraft and personnel) (Cwth)	31/01/2022	Email/letter to stakeholder from INPEX	Email and fact sheet sent to stakeholder with details of proposed Browse Basin offshore exploration drilling activities that INPEX plans to conduct in exploration titles WA-343-P and WA-285-P, offshore north-west Australia between 2023 to 2025. The fact sheet summarises the activities including: - the location and schedule of activity - a description of the exploration drilling activities - safety exclusion zones in place during the conduct of the activities; and - environmental management approaches INPEX requested that stakeholders provide feedback or queries regarding the proposed activities by 1 March 2022. INPEX requested that the stakeholder advise INPEX of any provided information/comments that is not suitable for public disclosure, and advised that such information will be omitted/redacted from the published EP and provided separately and privately to NOPSEMA.	Yes - activity fact sheet	N/A - consultation sent by INPEX	N/A

	31/01/2022	Email/letter to stakeholder from INPEX	Email and fact sheet sent to stakeholder with details of proposed Browse Basin offshore exploration drilling activities that INPEX plans to conduct in exploration titles WA-343-P and WA-285-P, offshore north-west Australia between 2023 to 2025. The fact sheet summarises the activities including: - the location and schedule of activity - a description of the exploration drilling activities - safety exclusion zones in place during the conduct of the activities; and - environmental management approaches INPEX requested that stakeholders provide feedback or queries regarding the proposed activities by 1 March 2022. INPEX requested that the stakeholder advise INPEX of any provided information/comments that is not suitable for public disclosure, and advised that such information will be omitted/redacted from the published EP and provided separately and privately to NOPSEMA.	Yes - activity fact sheet	N/A - consultation sent by INPEX	N/A
	31/01/2022	Email/letter to stakeholder from INPEX	Email and fact sheet sent to stakeholder with details of proposed Browse Basin offshore exploration drilling activities that INPEX plans to conduct in exploration titles WA-343-P and WA-285-P, offshore north-west Australia between 2023 to 2025. The fact sheet summarises the activities including: - the location and schedule of activity - a description of the exploration drilling activities - safety exclusion zones in place during the conduct of the activities; and - environmental management approaches INPEX requested that stakeholders provide feedback or queries regarding the proposed activities by 1 March 2022. INPEX requested that the stakeholder advise INPEX of any provided information/comments that is not suitable for public disclosure, and advised that such information will be omitted/redacted from the published EP and provided separately and privately to NOPSEMA.	Yes - activity fact sheet	N/A - consultation sent by INPEX	N/A
	1/02/2022	Email/letter from stakeholder	Response received. Stakeholder thanked INPEX for advice. Stakeholder requested INPEX ensure all operators of vessels involved with the exploration activities contact the department to ensure they are aware of biosecurity requirements, particularly when interacting with any Australian domestic conveyance (helicopters and supply vessels).	No	Relevant matter - stakeholder has provided information relevant to the petroleum activity and/or the stakeholders functions, interest or activities.	This requirement for vessel operators to contact the department has been incorporated in to the EP where INPEX has described the controls in place to manage biosecurity risks in Section 7 (refer Table 7-12 and Section 9.6.2). Vessel operators will comply with biosecurity requirements as shown in Figure 9-5.  The stakeholder raised no concerns or objections regarding the activity.
	1/02/2022	Email/letter to stakeholder from INPEX	INPEX noted operators of vessels involved will receive guidance prior start of the exploration activities to contact the department to ensure they are aware of biosecurity requirements.	No	N/A - consultation sent by INPEX	N/A
Department of Biodiversity Conservation and Attractions (DBCA) - Environmental Management Branch (WA)	27/01/2022	Email/letter to stakeholder from INPEX	Email and fact sheet sent to stakeholder with details of proposed Browse Basin offshore exploration drilling activities that INPEX plans to conduct in exploration titles WA-343-P and WA-285-P, offshore north-west Australia between 2023 to 2025. The fact sheet summarises the activities including: - the location and schedule of activity - a description of the exploration drilling activities - safety exclusion zones in place during the conduct of the activities; and - environmental management approaches INPEX requested that stakeholders provide feedback or queries regarding the proposed activities by 1 March 2022. INPEX requested that the stakeholder advise INPEX of any provided information/comments that are not suitable for public disclosure, and advised that such information will be omitted/redacted from the published EP and provided separately and privately to NOPSEMA.	Yes - activity fact sheet	N/A - consultation sent by INPEX	N/A
	28/02/2022	Email/letter from stakeholder	DBCA thanked INPEX for providing notification. DBCA provided the following comments on matters relevant to the DBCA's Conservation and Land Management Act 1984 and Biodiversity Conservation Act 2016 related responsibilities. Browse Island Nature Reserve (R 22697) is located in the vicinity of the proposed operations. This reserve is an ecologically important area, providing habitat for a range of seabirds and a significant nesting site for green turtles (Chelonia mydas), which are protected under the Biodiversity Conservation Act 2016 (ranked vulnerable). Based on the information provided it, appears that there is potential for the area to be affected by INPEX's operations if there is a substantial hydrocarbon release and subject to particular weather or other environmental conditions. Given the ecological value of Browse Island, it is considered important that the baseline values and state of the potentially affected environment are appropriately understood and documented prior to any operations commencing that have the potential to lead to hydrocarbon releases. DBCA would like to have confidence that INPEX has established appropriate baseline survey data on the current state of areas supporting important ecological values and any current contamination, if present within the area of the potential impact of hydrocarbon releases, as identified through INPEX's modelling. Following a desktop review and risk assessment, INPEX should also collect appropriate baseline abundance and distribution data for benthic habitat and marine fauna species in the area of potential impact, including information on the key habitats used by threatened and specially protected fauna for activities like foraging, breeding and aggregating. If baseline information is not available, INPEX should thoroughly assess what baseline information is required commensurate with the level of risk associated with the proposed activities and identify suitable sources/methods to attain that information such that INPEX can ensure that any impacts on ecological values and recovery of these values can be clearly identified, monitored and remediated.  DBCA undertakes monitoring in marine and terrestrial parks and reserves and publishes monitoring reports which are available on the department's website. However, INPEX should be aware that this monitoring is targeted to inform DBCA's values and objectives relating to reserve management and is not necessarily suitable to provide all baseline information required for oil spill risk assessment and management planning. DBCA encourages INPEX to acquire the necessary information to implement a Before-After, Control-Impact (BACI) framework in planning and evaluating its management response. This may include independently monitoring and collecting data where required or identifying other data sources. In developing its Environment Plan, DBCA also recommends that INPEX refer to the Commonwealth Department of Agriculture, Water and the Environment's National Light Pollution Guidelines for Wildlife Including Marine Turtles, Seabirds and Migratory Shorebirds as a best-practice industry standard for managing potential impacts of light pollution on marine fauna In the event of a hydrocarbon release, it is requested that INPEX notify DBCA's Kimberley regional office as soon as practicable and provided a contact number. Note that DBCA will not implement an oiled wildlife management response on behalf of a petroleum operator except as part of a whole of government response mandated by regulatory decision makers, and any advice or assistance from DBCA, at any scale, will occur on a full cost recovery basis. INPEX should also commit to the monitoring and clean-up of any DBCA interests affected by an oil spill in consultation with DBCA. INPEX should refer to the Department of Transport's (DoT) web content regarding marine pollution, and the Offshore Petroleum Industry Guidance Note of September 2018 titled Marine Oil Pollution: Response and Consultation Arrangements. These documents provide information on the Western Australian emergency management arrangements for marine oil pollution incidents in State waters, petroleum titleholders' obligations under those arrangements, and the DoT's expectations as the jurisdictional authority for such incidences. DBCA encouraged INPEX to contact DBCA if they wish to discuss or seek clarification on the above. DBCA provided contact details (email) for INPEX to continue to provide all future notifications to.	No	Relevant matter - stakeholder has provided information relevant to the petroleum activity and/or the stakeholders functions, interest or activities.	INPEX provided a summary of INPEX's capability in relation to the topics raised and described how the topics are addressed within the EP and other business management documents. Specifically: • existing environment for the region is described in Section 4. • INPEX has considered the National Light Pollution Guidelines for Wildlife Including Marine Turtles, Seabirds and Migratory Shorebirds (DOE 2020) during its assessment of impacts and identification of controls (refer to Table 7-1). • requirement to notify DBCA in relation to oiled wildlife response is included in oil spill response documents.  The stakeholder raised no concerns or objections regarding the activity.
	28/02/2022	Email/letter to stakeholder from INPEX	INPEX thanked DBCA for feedback and provided the following response: <b>Topic 1 – Baseline data</b> In 2014, a tri-party agreement known as the Applied Research Program (ARP) between INPEX, Shell and Australian Institute of Marine Science (AIMS) was signed specifically for the collection of baseline data to ensure sufficient data was available to quantify potential impacts should a significant hydrocarbon release occur. Over a six year period AIMS and its specialist subcontractors (Commonwealth Scientific and Industrial Research Organisation, Curtin University, Monash University, University of Western Australia, ChemCentre) undertook desktop reviews as well as designed and executed baseline monitoring programs specifically for assessing potential impacts of hydrocarbons, should a spill occur. This included more than 20 field surveys to a range of ecological important areas such as Browse Island, Lacedpede Islands, Adele Islands, Echuca Shoal and Heywood Shoal. The baseline data collected by the ARP will be referred to in the Environment Plan for this activity. Since 2014 INPEX has maintained an Operational and Scientific Monitoring Program (OSMP) contract for its activities in the Browse Basin. This contract allows for the rapid deployment of scientific personnel to undertake a range of monitoring programs. Monitoring programs include: • Oil spill surveillance and trajectory modelling • Water and sediment quality, including ecotoxicity • Shoreline and intertidal benthos • Subtidal benthos • Plankton • Seabirds and shorebirds • Non-avian megafauna • Commercial, traditional and recreational fisheries  Under the OSMP contract, a suite of method statements have been developed that identify methods and techniques that may be used in the event of a hydrocarbon spill to monitor hydrocarbons and detect potential impacts. However it is worth noting exact methods and program designs will be dependent on the nature and scale of the spill. Objectives, activation and termination criteria for each OSMP will be described detailed in Oil Pollution Emergency Plan (OPEP). The OPEP will also contain details of INPEX's other standby service arrangements including oil spill clean up and oiled wildlife response. Given the proximity to Browse Island, INPEX in consultation with WA DoT has also developed the Browse Island Oil Spill Incident Management Guide (Browse Island IMG). The Browse Island IMG includes assessment of response activities on the island and responsibilities for a cross jurisdictional response with WA DoT, as WA DoT are the control agency for responses in state waters (e.g. Browse Island). <b>Topic 2 – Light pollution guideline</b> INPEX has considered the guideline in the EP and makes reference to them in the ALARP assessments of light emissions in relation to marine fauna. <b>Topic 3 – Notification process and oiled wildlife response</b> INPEX will include the DBCA Kimberley office phone number on the INPEX Australia Emergency contacts list. INPEX will include this notification requirement within the Notifications section of INPEX's OPEP for this activity In INPEX's OPEPs, it is acknowledged that any spill/impact to WA waters/shorelines is managed under the WA State Hazard Plan – Maritime Environmental Emergencies, with the WA DoT currently nominated as the Control Agency. Therefore, any DBCA involvement in oiled wildlife response within WA waters/shorelines will only be under the direction of the WA DoT, as Control Agency. As required under the OPGS Act and associated regulations, INPEX maintains financial assurance against oil spill events, ensuring adequate cost-recovery associated with oil spill response. INPEX includes monitoring of impacts, and determination of secondary response actions including shoreline clean-up and oiled wildlife response, and ongoing scientific monitoring post response termination, as part of all INPEX OPEPs. This includes all potentially impacted WA waters/shorelines, including all DBCA interests. INPEX encouraged DBCA to respond if clarification is needed in regard to the above matters.	No	N/A - consultation sent by INPEX	N/A
Department of Defence - Northern Command (DoD)	8/03/2022	Email/letter to stakeholder from INPEX	Email and fact sheet sent to stakeholder with details of proposed Browse Basin offshore exploration drilling activities that INPEX plans to conduct in exploration titles WA-343-P and WA-285-P, offshore north-west Australia between 2023 to 2025. The fact sheet summarises the activities including: - the location and schedule of activity - a description of the exploration drilling activities - safety exclusion zones in place during the conduct of the activities; and - environmental management approaches INPEX requested that stakeholders provide feedback or queries regarding the proposed activities by 8 March 2022. INPEX requested that the stakeholder advise INPEX of any provided information/comments that is not suitable for public disclosure, and advised that such information will be omitted/redacted from the published EP and provided separately and privately to NOPSEMA.	Yes - activity fact sheet	N/A - consultation sent by INPEX	N/A
Department of Industry, Science, Energy and Resources (DISER)	31/01/2022	Email/letter to stakeholder from INPEX	Email and fact sheet sent to stakeholder with details of proposed Browse Basin offshore exploration drilling activities that INPEX plans to conduct in exploration titles WA-343-P and WA-285-P, offshore north-west Australia between 2023 to 2025. The fact sheet summarises the activities including: - the location and schedule of activity - a description of the exploration drilling activities - safety exclusion zones in place during the conduct of the activities; and - environmental management approaches INPEX requested that stakeholders provide feedback or queries regarding the proposed activities by 1 March 2022. INPEX requested that the stakeholder advise INPEX of any provided information/comments that is not suitable for public disclosure, and advised that such information will be omitted/redacted from the published EP and provided separately and privately to NOPSEMA.	Yes - activity fact sheet	N/A - consultation sent by INPEX	N/A
NT Department of Infrastructure, Planning and Logistics - Transport - Marine Safety Branch (DIPL)	28/01/2022	Email/letter to stakeholder from INPEX	Email and fact sheet sent to stakeholder with details of proposed Browse Basin offshore exploration drilling activities that INPEX plans to conduct in exploration titles WA-343-P and WA-285-P, offshore north-west Australia between 2023 to 2025. The fact sheet summarises the activities including: - the location and schedule of activity - a description of the exploration drilling activities - safety exclusion zones in place during the conduct of the activities; and - environmental management approaches INPEX requested that stakeholders provide feedback or queries regarding the proposed activities by 1 March 2022. INPEX requested that the stakeholder advise INPEX of any provided information/comments that is not suitable for public disclosure, and advised that such information will be omitted/redacted from the published EP and provided separately and privately to NOPSEMA.	Yes - activity fact sheet	N/A - consultation sent by INPEX	N/A
Department of Infrastructure, Transport, Regional Development and Communications (Cwth)	31/01/2022	Email/letter to stakeholder from INPEX	Email and fact sheet sent to stakeholder with details of proposed Browse Basin offshore exploration drilling activities that INPEX plans to conduct in exploration titles WA-343-P and WA-285-P, offshore north-west Australia between 2023 to 2025. The fact sheet summarises the activities including: - the location and schedule of activity - a description of the exploration drilling activities - safety exclusion zones in place during the conduct of the activities; and - environmental management approaches INPEX requested that stakeholders provide feedback or queries regarding the proposed activities by 1 March 2022. INPEX requested that the stakeholder advise INPEX of any provided information/comments that is not suitable for public disclosure, and advised that such information will be omitted/redacted from the published EP and provided separately and privately to NOPSEMA.	Yes - activity fact sheet	N/A - consultation sent by INPEX	N/A

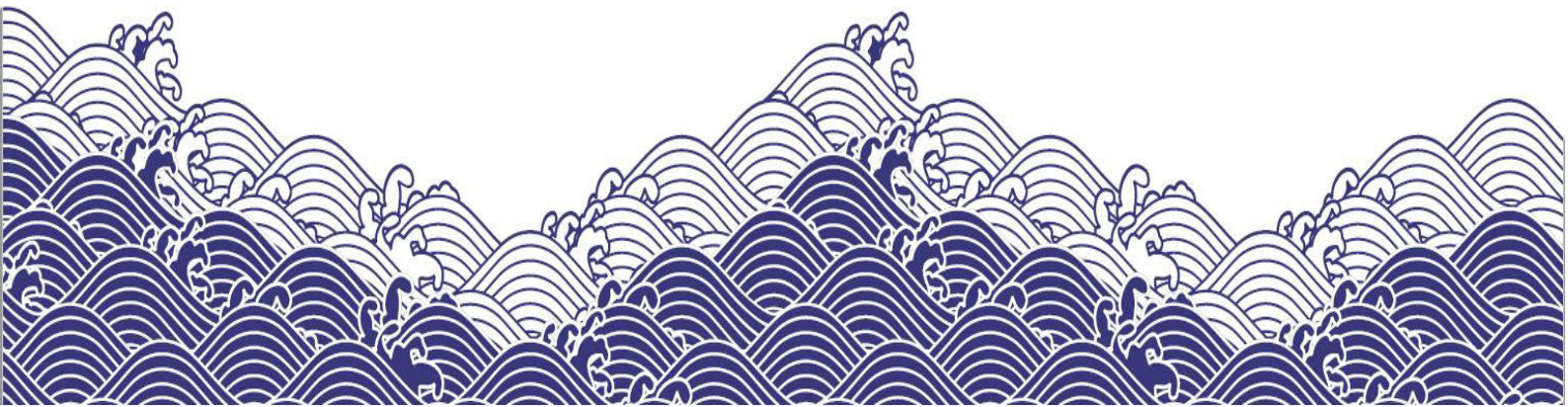
Department of Mines, Industry Regulation and Safety (DMIRS) (WA)	31/01/2022	Email/letter to stakeholder from INPEX	Email and fact sheet sent to stakeholder with details of proposed Browse Basin offshore exploration drilling activities that INPEX plans to conduct in exploration titles WA-343-P and WA-285-P, offshore north-west Australia between 2023 to 2025. The fact sheet summarises the activities including: - the location and schedule of activity - a description of the exploration drilling activities - safety exclusion zones in place during the conduct of the activities; and - environmental management approaches INPEX requested that stakeholders provide feedback or queries regarding the proposed activities by 1 March 2022. INPEX requested that the stakeholder advise INPEX of any provided information/comments that is not suitable for public disclosure, and advised that such information will be omitted/redacted from the published EP and provided separately and privately to NOPSEMA.	Yes - activity fact sheet	N/A - consultation sent by INPEX	N/A
	31/01/2022	Email/letter to stakeholder from INPEX	Email and fact sheet sent to stakeholder with details of proposed Browse Basin offshore exploration drilling activities that INPEX plans to conduct in exploration titles WA-343-P and WA-285-P, offshore north-west Australia between 2023 to 2025. The fact sheet summarises the activities including: - the location and schedule of activity - a description of the exploration drilling activities - safety exclusion zones in place during the conduct of the activities; and - environmental management approaches INPEX requested that stakeholders provide feedback or queries regarding the proposed activities by 1 March 2022. INPEX requested that the stakeholder advise INPEX of any provided information/comments that is not suitable for public disclosure, and advised that such information will be omitted/redacted from the published EP and provided separately and privately to NOPSEMA.	Yes - activity fact sheet	N/A - consultation sent by INPEX	N/A
	10/02/2022	Email/letter to stakeholder from INPEX	Email and fact sheet sent to stakeholder with details of proposed Browse Basin offshore exploration drilling activities that INPEX plans to conduct in exploration titles WA-343-P and WA-285-P, offshore north-west Australia between 2023 to 2025. The fact sheet summarises the activities including: - the location and schedule of activity - a description of the exploration drilling activities - safety exclusion zones in place during the conduct of the activities; and - environmental management approaches INPEX requested that stakeholders provide feedback or queries regarding the proposed activities by 1 March 2022. INPEX requested that the stakeholder advise INPEX of any provided information/comments that is not suitable for public disclosure, and advised that such information will be omitted/redacted from the published EP and provided separately and privately to NOPSEMA.	Yes - activity fact sheet	N/A - consultation sent by INPEX	N/A
	16/02/2022	Email/letter from stakeholder	Acknowledgement of receipt. DMIRS noted that the proposed activity will be assessed under the Offshore Petroleum and Greenhouse Gas Storage (Environment) Regulations 2009 and regulated by the National Offshore Petroleum Safety and Environmental Management Authority. DMIRS reviewed the notification and does not require any further information at this stage. DMIRS requested INPEX: 1. provide a pre-start notification confirming the start date of the proposed activity and a cessation notification to inform DMIRS upon completion of the activity. 2. ensure the environment plan includes information about the reporting of environmental incidents that could potentially impact on any land or water in State jurisdiction, including that any notifications or reports are to be sent to DMIRS DMIRS provided contact details for stakeholder correspondence for any future proposed Commonwealth petroleum activities that could potentially impact on any land or water in State jurisdiction to be submitted to for consideration.	No	Relevant matter - stakeholder has provided information relevant to the petroleum activity and/or the stakeholders functions, interest or activities.	INPEX will notify DMIRS of any future developments associated with the Project, as required (refer to Section 9.8.3, Table 9-6). Notifications of any environmental incidents that could potentially impact on any land or water in State jurisdiction will also be sent to DMIRS in accordance with Section 9.11.3 of the EP. The stakeholder raised no concerns or objections regarding the activity.
Department of Primary Industries and Regional Development (DPIRD) - Aquatic Environment Section (WA)	28/01/2022	Email/letter to stakeholder from INPEX	Email and fact sheet sent to stakeholder with details of proposed Browse Basin offshore exploration drilling activities that INPEX plans to conduct in exploration titles WA-343-P and WA-285-P, offshore north-west Australia between 2023 to 2025. The fact sheet summarises the activities including: - the location and schedule of activity - a description of the exploration drilling activities - safety exclusion zones in place during the conduct of the activities; and - biosecurity management which is consistent with ongoing operation that INPEX consulted closely with DPIRD on. INPEX requested that stakeholders provide feedback or queries regarding the proposed activities by 1 March 2022. INPEX requested that the stakeholder advise INPEX of any provided information/comments that are not suitable for public disclosure, and advised that such information will be omitted/redacted from the published EP and provided separately and privately to NOPSEMA.	Yes - activity fact sheet & location map		N/A
Department of Primary Industries and Regional Development (DPIRD) - Biosecurity Section Formerly Department of Fisheries (DoAWE)	27/01/2022	Email/letter to stakeholder from INPEX	Email and fact sheet sent to stakeholder with details of proposed Browse Basin offshore exploration drilling activities that INPEX plans to conduct in exploration titles WA-343-P and WA-285-P, offshore north-west Australia between 2023 to 2025. The fact sheet summarises the activities including: - the location and schedule of activity - a description of the exploration drilling activities - safety exclusion zones in place during the conduct of the activities; and - biosecurity management which is consistent with ongoing operation that INPEX consulted closely with DPIRD on. INPEX requested that stakeholders provide feedback or queries regarding the proposed activities by 1 March 2022. INPEX requested that the stakeholder advise INPEX of any provided information/comments that are not suitable for public disclosure, and advised that such information will be omitted/redacted from the published EP and provided separately and privately to NOPSEMA.	Yes - activity fact sheet & location map	N/A - consultation sent by INPEX	N/A
Department of Transport (WA DoT) - Marine Safety	28/01/2022	Email/letter to stakeholder from INPEX	Email and fact sheet sent to stakeholder with details of proposed Browse Basin offshore exploration drilling activities that INPEX plans to conduct in exploration titles WA-343-P and WA-285-P, offshore north-west Australia between 2023 to 2025. The fact sheet summarises the activities including: - the location and schedule of activity - a description of the exploration drilling activities - safety exclusion zones in place during the conduct of the activities; and - environmental management approaches INPEX requested that stakeholders provide feedback or queries regarding the proposed activities by 1 March 2022. INPEX requested that the stakeholder advise INPEX of any provided information/comments that is not suitable for public disclosure, and advised that such information will be omitted/redacted from the published EP and provided separately and privately to NOPSEMA.	Yes - activity fact sheet	N/A - consultation sent by INPEX	N/A
	31/01/2022	Email/letter from stakeholder	Response received. WA DoT requested that if there is a risk of a spill impacting State waters from the activity, that the Department of Transport be consulted as outlined in the Department of Transport Offshore Petroleum Industry Guidance Note – Marine Oil Pollution: Response and Consultation Arrangements (July 2020), and provided a link.	No	Relevant matter - stakeholder has provided information relevant to the petroleum activity and/or the stakeholders functions, interest or activities.	The WA DoT requirements are captured in Section 7 (Impact and Risk Assessment), Section 8 (Emergency Conditions) and Section 9 (Environmental Management Implementation Strategy) of the EP. Also in the BROPEP stakeholder notification table and other various cross-jurisdiction sections of the BROPEP. The stakeholder raised no concerns or objection regarding the activity.
	Various between July and December 2022	Email/letter from stakeholder	WA DoT undertook a review of INPEX's BROPEP and noted: • WA DoT will only assume the role of Controlling Agency for that portion of the response that occurs within State waters as per its jurisdictional responsibilities. This will occur under the coordination of WA DoT and the WA State Marine Pollution Coordinator, under delegation of the Hazard Management Agency (HMA) for the Marine Oil Pollution (MOP) hazards in State waters. • INPEX required to ensure position titles are included to avoid confusion around what might appear as additional resources outside of that designated in the Industry Guidance Note. • WA DoT request to review the Browse Island oil spill incident management guide. • Why has INPEX decided to not outline this (subsea dispersant application) in the BROPEP? Is it a viable option given water depth and gas ratios? Has any dispersant efficacy testing been done on the INPEX condensates? • Whilst DoT agrees that final determination of protection priorities rests with the Control Agency at the time of an incident, there is still an expectation that the contingency planning for an oil spill considers potential sensitivities and potential prioritisation, as this is something that would aid greatly during a response. • WA DoT an incorrect definition of the State waters. • WA DoT requested INPEX to clarify how communications are managed during a response including in the field and asked if this is outlined or referred to in the suite of BROPEP related documents? • Further detail requested on the response organization including organization chart of positions and roles of the response team. • Confirm how visual observation could be used to 'confirm to no longer present a risk to the environment'. • How does INPEX propose to engage with WA DoT on each specific activity in regards to timing, predicted modelling, strategic SIMAs, baseline monitoring data, resourcing changes, confirmation of any changes in response arrangements etc given that this information sits across multiple documents now and the BROPEP appears to be a much more higher-level document? • Whilst DoT agrees that final determination of termination criteria rests with the Control Agency at the time of an incident, there is still an expectation that the contingency planning for an oil spill considers these prior to any incident occurring as this would aid greatly during a response. • WA DoT requested to remove all references to specific numbers of personnel/equipment and resources and also references to specific named individuals. • Confirm baseline data available for Browse Island. • How does INPEX plan to manage the gas release in relation to a well-blow out both from a safety point of view but also in relation to viability of response options?	Yes - INPEX BROPEP documents	Relevant matter - stakeholder has provided information relevant to the petroleum activity and/or the stakeholders functions, interest or activities.	In response to several relevant matters raised through the WA DoT review of the BROPEP between July and December 2022 actions undertaken by INPEX include: • BROPEP was updated in Section 2.2.1 using wording agreed by WA DoT in December 2022 regarding jurisdictional responsibilities. • BROPEP was updated in Section 2.2.1 using wording agreed by WA DoT in December 2022 for position titles. • INPEX will share the Browse Island oil spill incident management guide once developed currently schedule for May/June 2023. • INPEX showed WA DoT the modelling and validation which has been conducted in relation to use of SSDI to treat VOC risks in December 2022 and confirmed SSDI is related to VOC risk mitigation, for source control activities only (debris clearance, capping stack installation etc), and that all SSDI capability evaluation remains within INPEX drilling and source control division documentation. • BROPEP was updated in Section 3.3 to confirm additional planning tools which would be used during a response to determine protection priorities include the zoning within the various WA Marine Parks. • State waters definition updated in the BROPEP. • BROPEP - IMT Report, Section 4.1 was updated to confirm communication processes between INPEX CMT, IMT and ERTS. • INPEX confirmed the IMT will be structured in accordance with the positions and numbers, as defined in Section 3.2 of the BROPEP IMT Capability Assessment Report. Significant numbers of planning roles/positions are defined in Table 3-2 and the structure is expandable and collapsible as required. • INPEX confirmed that based on the oil type (e.g. condensate/diesel) and behaviour of the spill, it can be reasonably concluded that if the spill has evaporated/no visual sheen remaining, there is no more 'risk' and it was agreed at a meeting in December 2022 that no changes were required to be made to the BROPEP in relation to this matter.  • When engaging with WA DoT on each specific activity/EP, INPEX will provide WA DoT the full suite of INPEX BROPEP documents. INPEX also confirmed the original and new EPs that are covered by the BROPEP. • Some updates were agreed with WA DoT in December 2022 that could be made, based on IOGP/IEPCA good practice guides, and the WA DBCA 2022 documents in the OWR section of the BROPEP. New wording also included on how the WA OWR Plan and OWR Manual would be used to assist the IMT to decide on response termination include setting an agreed threshold for ceasing operations, as well as thresholds for scaling back rescue operations. • References to WA DoT providing specific numbers of personnel and named individuals was removed from the BROPEP Section 4.5.1/4.5.2. • Section 4.7.3 of the BROPEP has been updated with new information describing the baseline data for Browse Island available to support the OSMP including the various environmental surveys completed by INPEX (2006-2009) and the Applied Research Program (ARP). • Where there is a gas cloud safety risk, there will be no entry for vessels/aircraft into the risk area. This will be managed via the relevant Facility Safety Cases, in consultation with NOPSEMA Safety/Well Integrity divisions and AMSA/CASA, who are responsible for managing these risks to commercial shipping and aviation.
Department of Water and Environmental Regulation (DWER) Hazard Management Branch Contaminated Sites Branch	28/01/2022	Email/letter to stakeholder from INPEX	Email and fact sheet sent to stakeholder with details of proposed Browse Basin offshore exploration drilling activities that INPEX plans to conduct in exploration titles WA-343-P and WA-285-P, offshore north-west Australia between 2023 to 2025. The fact sheet summarises the activities including: - the location and schedule of activity - a description of the exploration drilling activities - safety exclusion zones in place during the conduct of the activities; and - environmental management approaches INPEX requested that stakeholders provide feedback or queries regarding the proposed activities by 1 March 2022. INPEX requested that the stakeholder advise INPEX of any provided information/comments that is not suitable for public disclosure, and advised that such information will be omitted/redacted from the published EP and provided separately and privately to NOPSEMA.	Yes - activity fact sheet	N/A - consultation sent by INPEX	N/A
Kimberley Ports Authority (KPA)	28/01/2022	Email/letter to stakeholder from INPEX	Email and fact sheet sent to stakeholder with details of proposed Browse Basin offshore exploration drilling activities that INPEX plans to conduct in exploration titles WA-343-P and WA-285-P, offshore north-west Australia between 2023 to 2025. The fact sheet summarises the activities including: - the location and schedule of activity - a description of the exploration drilling activities - safety exclusion zones in place during the conduct of the activities; and - environmental management approaches INPEX requested that stakeholders provide feedback or queries regarding the proposed activities by 1 March 2022. INPEX requested that the stakeholder advise INPEX of any provided information/comments that is not suitable for public disclosure, and advised that such information will be omitted/redacted from the published EP and provided separately and privately to NOPSEMA.	Yes - activity fact sheet	N/A - consultation sent by INPEX	N/A
	4/02/2022	Email/letter from stakeholder	Response received. Stakeholder thanked INPEX for the information. Stakeholder advised they will provide the the best possible support to your operations out of the Port of Broome and fully support INPEX's offshore exploration drilling.	No	Not a relevant matter - general correspondence only	N/A
Office of the Director of National Parks (Cwth)	27/01/2022	Email/letter to stakeholder from INPEX	Email and fact sheet sent to stakeholder with details of proposed Browse Basin offshore exploration drilling activities that INPEX plans to conduct in exploration titles WA-343-P and WA-285-P, offshore north-west Australia between 2023 to 2025. The fact sheet summarises the activities including: - the location and schedule of activity - a description of the exploration drilling activities - safety exclusion zones in place during the conduct of the activities; and - environmental management approaches INPEX outlined that no Australian Marine Park boundaries overlap with the either WA-343-P or WA-285-P and no planned aspects of the activity are expected to impact on values of any Australian Marine Park. INPEX provided a map and table outlining the distance of Australian Marine Parks to the exploration titles. INPEX requested that stakeholders provide feedback or queries regarding the proposed activities by 1 March 2022. INPEX requested that the stakeholder advise INPEX of any provided information/comments that are not suitable for public disclosure, and advised that such information will be omitted/redacted from the published EP and provided separately and privately to NOPSEMA.	Yes - activity fact sheet & location map	N/A - consultation sent by INPEX	N/A

	18/03/2022	Email/letter from stakeholder	DNP thanked INPEX for providing the factsheet about INPEX's proposed Browse Basin offshore exploration drilling in WA-285-P and WA-343-P. DNP noted that the planned activities do not overlap any Australian Marine Parks and confirmed there are no authorisation requirements from the DNP. DNP informed INPEX that to assist in the preparation of an EP for petroleum activities that may affect Australian marine parks, NOPSEMA has worked closely with Parks Australia to develop and publish a guidance note that outlines what titleholders need to consider and evaluate. DNP advised that when preparing the EP, INPEX should consider the Australian marine parks and their representativeness. DNP advised that in the context of the management plan objectives and values, INPEX should ensure 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 as low as reasonably practicable. • clearly demonstrates that the activity will not be inconsistent with the management plan. DNP advised that the North-west Marine Parks Network Management Plan 2018 (management plan) came into effect on 1 July 2018 and provides further information on values Ashmore Reef, Cartier Island and other Marine Parks located nearby or within potential any potential exposure zones. Australian marine park values are broadly defined into four categories: natural (including ecosystems), cultural, heritage and socio-economic. Information on the values for the marine parks is also located on the Australian Marine Parks Science Atlas. The DNP should be made aware of oil/gas pollution incidences which occur within a marine park or are likely to impact on a marine park as soon as possible. Notification should be provided to the 24 hour Marine Compliance Duty Officer on 0419 293 465. The notification should include: • titleholder details • time and location of the incident (including name of marine park likely to be effected) • proposed response arrangements as per the Oil Pollution Emergency Plan (e.g. dispersant, containment, etc.) • confirmation of providing access to relevant monitoring and evaluation reports when available; and • contact details for the response coordinator. Note that the DNP may request daily or weekly Situation Reports, depending on the scale and severity of the pollution incident.	No	Relevant matter - stakeholder has provided information relevant to the petroleum activity and/ or the stakeholders functions, interest or activities.	Information provided from the DNP with respect to the values associated with the closest AMPs have been described in Section 4 of the EP and considered in the impact and risk evaluations presented in Sections 7 and 8 with respect to control measures that will ensure the activity is managed in accordance with AMP management plans. In the event of a spill, INPEX oil spill notifications are aligned with the DNP requirements as described in Section 4.3, Section 9.11.3 and the BROPEP.  The stakeholder raised no concerns or objections regarding the activity.
Shire of Wyndham East Kimberley (SWEK)	31/01/2022	Email/letter to stakeholder from INPEX	Email and fact sheet sent to stakeholder with details of proposed Browse Basin offshore exploration drilling activities that INPEX plans to conduct in exploration titles WA-343-P and WA-285-P, offshore north-west Australia between 2023 to 2025. The fact sheet summarises the activities including: - the location and schedule of activity - a description of the exploration drilling activities - safety exclusion zones in place during the conduct of the activities; and - environmental management approaches INPEX requested that stakeholders provide feedback or queries regarding the proposed activities by 1 March 2022. INPEX requested that the stakeholder advise INPEX of any provided information/comments that is not suitable for public disclosure, and advised that such information will be omitted/redacted from the published EP and provided separately and privately to NOPSEMA.	Yes - activity fact sheet	N/A - consultation sent by INPEX	N/A
Australian Marine Oil Spill Centre (AMOSC)	28/01/2022	Email/letter to stakeholder from INPEX	Email and fact sheet sent to stakeholder with details of proposed Browse Basin offshore exploration drilling activities that INPEX plans to conduct in exploration titles WA-343-P and WA-285-P, offshore north-west Australia between 2023 to 2025. The fact sheet summarises the activities including: - the location and schedule of activity - a description of the exploration drilling activities - safety exclusion zones in place during the conduct of the activities; and - environmental management approaches INPEX requested that stakeholders provide feedback or queries regarding the proposed activities by 1 March 2022. INPEX requested that the stakeholder advise INPEX of any provided information/comments that is not suitable for public disclosure, and advised that such information will be omitted/redacted from the published EP and provided separately and privately to NOPSEMA.	Yes - activity fact sheet	N/A - consultation sent by INPEX	N/A
IPB Petroleum	31/01/2022	Email/letter to stakeholder from INPEX	Email and fact sheet sent to stakeholder with details of proposed Browse Basin offshore exploration drilling activities that INPEX plans to conduct in exploration titles WA-343-P and WA-285-P, offshore north-west Australia between 2023 to 2025. The fact sheet summarises the activities including: - the location and schedule of activity - a description of the exploration drilling activities - safety exclusion zones in place during the conduct of the activities; and - environmental management approaches INPEX requested that stakeholders provide feedback or queries regarding the proposed activities by 1 March 2022. INPEX requested that the stakeholder advise INPEX of any provided information/comments that is not suitable for public disclosure, and advised that such information will be omitted/redacted from the published EP and provided separately and privately to NOPSEMA.	Yes - activity fact sheet	N/A - consultation sent by INPEX	N/A
	10/02/2022	Email/letter to stakeholder from INPEX	Email and fact sheet sent to stakeholder with details of proposed Browse Basin offshore exploration drilling activities that INPEX plans to conduct in exploration titles WA-343-P and WA-285-P, offshore north-west Australia between 2023 to 2025. The fact sheet summarises the activities including: - the location and schedule of activity - a description of the exploration drilling activities - safety exclusion zones in place during the conduct of the activities; and - environmental management approaches INPEX requested that stakeholders provide feedback or queries regarding the proposed activities by 1 March 2022. INPEX requested that the stakeholder advise INPEX of any provided information/comments that is not suitable for public disclosure, and advised that such information will be omitted/redacted from the published EP and provided separately and privately to NOPSEMA.	Yes - activity fact sheet	N/A - consultation sent by INPEX	N/A
Oil Spill Response Limited (OSRL)	28/01/2022	Email/letter to stakeholder from INPEX	Email and fact sheet sent to stakeholder with details of proposed Browse Basin offshore exploration drilling activities that INPEX plans to conduct in exploration titles WA-343-P and WA-285-P, offshore north-west Australia between 2023 to 2025. The fact sheet summarises the activities including: - the location and schedule of activity - a description of the exploration drilling activities - safety exclusion zones in place during the conduct of the activities; and - environmental management approaches INPEX requested that stakeholders provide feedback or queries regarding the proposed activities by 1 March 2022. INPEX requested that the stakeholder advise INPEX of any provided information/comments that is not suitable for public disclosure, and advised that such information will be omitted/redacted from the published EP and provided separately and privately to NOPSEMA.	Yes - activity fact sheet	N/A - consultation sent by INPEX	N/A
RPS Asia-Pacific Applied Science Associates (APASA)	28/01/2022	Email/letter to stakeholder from INPEX	Email and fact sheet sent to stakeholder with details of proposed Browse Basin offshore exploration drilling activities that INPEX plans to conduct in exploration titles WA-343-P and WA-285-P, offshore north-west Australia between 2023 to 2025. The fact sheet summarises the activities including: - the location and schedule of activity - a description of the exploration drilling activities - safety exclusion zones in place during the conduct of the activities; and - environmental management approaches INPEX requested that stakeholders provide feedback or queries regarding the proposed activities by 1 March 2022. INPEX requested that the stakeholder advise INPEX of any provided information/comments that is not suitable for public disclosure, and advised that such information will be omitted/redacted from the published EP and provided separately and privately to NOPSEMA.	Yes - activity fact sheet	N/A - consultation sent by INPEX	N/A
Santos	10/02/2022	Email/letter to stakeholder from INPEX	INPEX requested a meeting with stakeholder. Email and fact sheet sent to stakeholder with details of proposed Browse Basin offshore exploration drilling activities that INPEX plans to conduct in exploration titles WA-343-P and WA-285-P, offshore north-west Australia between 2023 to 2025. The fact sheet summarises the activities including: - the location and schedule of activity - a description of the exploration drilling activities - safety exclusion zones in place during the conduct of the activities; and - environmental management approaches INPEX requested that stakeholders provide feedback or queries regarding the proposed activities by 1 March 2022. INPEX requested that the stakeholder advise INPEX of any provided information/comments that is not suitable for public disclosure, and advised that such information will be omitted/redacted from the published EP and provided separately and privately to NOPSEMA.	Yes - activity fact sheet	N/A - consultation sent by INPEX	N/A
Shell	10/02/2022	Email/letter to stakeholder from INPEX	Email and fact sheet sent to stakeholder with details of proposed Browse Basin offshore exploration drilling activities that INPEX plans to conduct in exploration titles WA-343-P and WA-285-P, offshore north-west Australia between 2023 to 2025. The fact sheet summarises the activities including: - the location and schedule of activity - a description of the exploration drilling activities - safety exclusion zones in place during the conduct of the activities; and - environmental management approaches INPEX requested that stakeholders provide feedback or queries regarding the proposed activities by 1 March 2022. INPEX requested that the stakeholder advise INPEX of any provided information/comments that is not suitable for public disclosure, and advised that such information will be omitted/redacted from the published EP and provided separately and privately to NOPSEMA.	Yes - activity fact sheet	N/A - consultation sent by INPEX	N/A
	10/02/2022	Email/letter from stakeholder	Confirmation of receipt. Stakeholder thanked INPEX for email and notification and advised will circulate internally.	No	N/A - general correspondence only	N/A
	1/03/2022	Email/letter from stakeholder	Response received. Stakeholder advised that the feedback received from relevant Shell internal stakeholders is that there are no further comments and no issues with the proposed INPEX Browse Basin offshore exploration drilling WA-285-P and WA-343-P. Stakeholder advised that if any further information is required INPEX should not hesitate to get in contact.	No	N/A - general correspondence only	N/A
	1/03/2022	Email/letter to stakeholder from INPEX	INPEX thanked stakeholder for response.	No	N/A - consultation sent by INPEX	N/A
Vocus Communications Group	1/03/2022	Email/letter to stakeholder from INPEX	Email and fact sheet sent to stakeholder with details of proposed Browse Basin offshore exploration drilling activities that INPEX plans to conduct in exploration titles WA-343-P and WA-285-P, offshore north-west Australia between 2023 to 2025. The fact sheet summarises the activities including: - the location and schedule of activity - a description of the exploration drilling activities - safety exclusion zones in place during the conduct of the activities; and - environmental management approaches INPEX requested that stakeholders provide feedback or queries regarding the proposed activities by 15 March 2022. INPEX requested that the stakeholder advise INPEX of any provided information/comments that is not suitable for public disclosure, and advised that such information will be omitted/redacted from the published EP and provided separately and privately to NOPSEMA.	Yes - activity fact sheet	N/A - consultation sent by INPEX	N/A
Woodside	10/02/2022	Email/letter to stakeholder from INPEX	Email and fact sheet sent to stakeholder with details of proposed Browse Basin offshore exploration drilling activities that INPEX plans to conduct in exploration titles WA-343-P and WA-285-P, offshore north-west Australia between 2023 to 2025. The fact sheet summarises the activities including: - the location and schedule of activity - a description of the exploration drilling activities - safety exclusion zones in place during the conduct of the activities; and - environmental management approaches INPEX requested that stakeholders provide feedback or queries regarding the proposed activities by 1 March 2022. INPEX requested that the stakeholder advise INPEX of any provided information/comments that is not suitable for public disclosure, and advised that such information will be omitted/redacted from the published EP and provided separately and privately to NOPSEMA.	Yes - activity fact sheet	N/A - consultation sent by INPEX	N/A
Willie Creek Pearls	28/01/2022	Email/letter to stakeholder from INPEX	Email and fact sheet sent to stakeholder with details of proposed Browse Basin offshore exploration drilling activities that INPEX plans to conduct in exploration titles WA-343-P and WA-285-P, offshore north-west Australia between 2023 to 2025. The fact sheet summarises the activities including: - the location and schedule of activity - a description of the exploration drilling activities - safety exclusion zones in place during the conduct of the activities; and - environmental management approaches INPEX requested that stakeholders provide feedback or queries regarding the proposed activities by 1 March 2022. INPEX requested that the stakeholder advise INPEX of any provided information/comments that is not suitable for public disclosure, and advised that such information will be omitted/redacted from the published EP and provided separately and privately to NOPSEMA.	Yes - activity fact sheet	N/A - consultation sent by INPEX	N/A
Maxima Pearls	28/01/2022	Email/letter to stakeholder from INPEX	Email and fact sheet sent to stakeholder with details of proposed Browse Basin offshore exploration drilling activities that INPEX plans to conduct in exploration titles WA-343-P and WA-285-P, offshore north-west Australia between 2023 to 2025. The fact sheet summarises the activities including: - the location and schedule of activity - a description of the exploration drilling activities - safety exclusion zones in place during the conduct of the activities; and - environmental management approaches INPEX requested that stakeholders provide feedback or queries regarding the proposed activities by 1 March 2022. INPEX requested that the stakeholder advise INPEX of any provided information/comments that is not suitable for public disclosure, and advised that such information will be omitted/redacted from the published EP and provided separately and privately to NOPSEMA.	Yes - activity fact sheet	N/A - consultation sent by INPEX	N/A
Cygnat Bay Pearls	28/01/2022	Email/letter to stakeholder from INPEX	Email and fact sheet sent to stakeholder with details of proposed Browse Basin offshore exploration drilling activities that INPEX plans to conduct in exploration titles WA-343-P and WA-285-P, offshore north-west Australia between 2023 to 2025. The fact sheet summarises the activities including: - the location and schedule of activity - a description of the exploration drilling activities - safety exclusion zones in place during the conduct of the activities; and - environmental management approaches INPEX requested that stakeholders provide feedback or queries regarding the proposed activities by 1 March 2022. INPEX requested that the stakeholder advise INPEX of any provided information/comments that is not suitable for public disclosure, and advised that such information will be omitted/redacted from the published EP and provided separately and privately to NOPSEMA.	Yes - activity fact sheet	N/A - consultation sent by INPEX	N/A

Paspaley	28/01/2022	Email/letter to stakeholder from INPEX	Email and fact sheet sent to stakeholder with details of proposed Browse Basin offshore exploration drilling activities that INPEX plans to conduct in exploration titles WA-343-P and WA-285-P, offshore north-west Australia between 2023 to 2025. The fact sheet summarises the activities including: - the location and schedule of activity - a description of the exploration drilling activities - safety exclusion zones in place during the conduct of the activities; and - environmental management approaches INPEX requested that stakeholders provide feedback or queries regarding the proposed activities by 1 March 2022. INPEX requested that the stakeholder advise INPEX of any provided information/comments that is not suitable for public disclosure, and advised that such information will be omitted/redacted from the published EP and provided separately and privately to NOPSEMA.	Yes - activity fact sheet	N/A - consultation sent by INPEX	N/A
Western Australian Fishing Industry Council (WAFIC) Represents stakeholders in: WA fisheries • Mackerel Managed Fishery • Northern Demersal Scalefish Fishery • West Coast Deep Sea Crustacean Managed Fishery • Northern Shark Fishery • Pearl Oyster Managed Fishery • Kimberley Prawn Managed Fishery • Broome Prawn Managed Fishery • North Coast Shark Fishery • Cwth fisheries • North West Slope Trawl Fishery • Western Skipjack Fishery • Western Tuna and Billfish Fisheries	27/01/2022	Email/letter to stakeholder from INPEX	Email to request WAFIC provide support to INPEX during exploration drilling campaign in WA-285-P and WA-343-P noting that WAFIC no longer offer the previously used 'fee for service' arrangement. INPEX provided Fishing Activity map for the permits to identify relevant fisheries and provided draft email text to be sent by WAFIC on behalf of INPEX. Email and fact sheet sent to stakeholder with details of proposed Browse Basin offshore exploration drilling activities that INPEX plans to conduct in exploration titles WA-343-P and WA-285-P, offshore north-west Australia between 2023 to 2025. Exploration activities overlap with commercial licences in the area [Northwest Slope Trawl (Commonwealth) fishery and the Northern Demersal Scale Fish (WA)]. The fact sheet summarises the activities including: - the location and schedule of activity - a description of the exploration drilling activities - safety exclusion zones in place during the conduct of the activities; and - environmental management approaches INPEX requested that stakeholders provide feedback or queries regarding the proposed activities by 1 March 2022. INPEX requested that the stakeholder advise INPEX of any provided information/comments that is not suitable for public disclosure, and advised that such information will be omitted/redacted from the published EP and provided separately and privately to NOPSEMA.	Yes - activity fact sheet & location map. Fishing Activity map.	N/A - consultation sent by INPEX	N/A
	3/02/2022	Email/letter from stakeholder	WAFIC agreed to support INPEX by emailing correspondence to relevant fishing stakeholders	N/A		N/A
	8/02/2022	Email/letter from stakeholder	WAFIC re-confirmed information INPEX provided to ensure the information gets directly to the target audience.	N/A	N/A - general correspondence only	N/A
	10/02/2022	Email/letter from stakeholder	WAFIC thanked INPEX for sending through information on the proposed INPEX Browse Basin offshore exploration drilling in WA-285-P and WA-343-P. WAFIC requested, in the event of unplanned discharge incident INPEX confirm the following: - Established baseline scientific data on aquatic organisms and the aquatic environment - Communication strategy and scenario/exercise training that considers the commercial fishing industry in the event of an incident - A draft framework to temporarily close a fishery either via a voluntary process or formally through legislation - Support to the commercial fishing industry with regards to traceability of fish products to manage tainting risks. - A detailed process for post spill scientific monitoring of aquatic organism and aquatic environment - Commitment for financial adjustment to the commercial fishing industry.	N/A	Relevant matter - stakeholder has provided information relevant to the petroleum activity and/ or the stakeholders functions, interest or activities.	In response to several relevant matters made, INPEX provided a summary of INPEX's capability in relation to the topics raised specifically: • existing environment for the region is described in Section 4 (existing environment) of this EP and INPEX continues to maintain readiness of Operational and Scientific Monitoring Programs (OSMP) in accordance with the relevant OPEPs, which in the event of a major spill, would be activated to assess impacts. • requirements to engage with commercial fishing industry in relation to oiled wildlife response is included in oil spill response documents • INPEX understands that the closure of a fishery would be managed via the relevant State, Territory or Commonwealth agency, responsible for the permits/licences associated with the potentially affected fisheries. INPEX would work in consultation with the relevant government agencies in the event of an oil spill. • INPEX's OSMP includes a Scientific Monitoring program (SM12) to determine the impact of the oil spill on commercial, traditional and recreational fisheries, which may include assessment of contamination and tainting in fish products and reproductive impairment, depending on type, nature and scale of the spill. • as a requirement of the OPGGS (E) Regulations, INPEX has arrangements in place for a suitable OSMP for the purposes of determining impacts and monitoring the recovery of the marine environment. • INPEX maintains financial assurance to ensure the costs of implementing a response and implementing the OSMP will be met. The monitoring will determine impacts to the environment inclusive of SM12, the outcomes of which will inform further discussions with the commercial fishing industry if appropriate.
	23/02/2022	Email/letter to stakeholder from INPEX	INPEX thanked WAFIC for requesting additional information in relation to unplanned events and advised for WAFIC to let INPEX know if they require further information. INPEX response to WAFIC was as follows:  - Baseline environmental studies within the Browse Basin were undertaken by Australian Institute of Marine Science (AIMS) and their research partners (CSIRO, UWA, Curtin University, Monash University, ChemCentre) as part of the Applied Research Program (ARP) over ~6.5 years. The ARP was a \$15M research program with nine discrete scopes with an overarching objective of collecting baseline environmental information for the Browse Basin to allow companies to quantitatively assess the impacts of an unplanned spill. One of these scopes specifically focussed on establishing the basis to evaluate the effects of a spill on commercially important demersal fishes. INPEX continues to maintain readiness of Operational and Scientific Monitoring Programs in accordance with the relevant Oil Pollution Emergency Plans, which in the event of a major spill, would be activated to assess impacts (see 5th bullet).  - INPEX Incident Management Team and Crisis Management Team conduct various oil spill exercises as part of annual IMT/CMT training. Oil spill exercises consider the risks and impacts associated with potentially affected stakeholders including fisheries, and CMT routinely practice the development of communication strategies / stakeholder engagement plans during events.  - INPEX understands that the closure of a fishery would be managed via the relevant State, Territory or Commonwealth agency, responsible for the permits/licences associated with the potentially affected fisheries. There are various oil spill coordination arrangements in place, to manage communication and decision making, between a Petroleum Titleholder and relevant government agencies. The Offshore Petroleum Incident Coordination Committee (OPICC) includes all relevant Federal Government Agencies. The Joint Strategic Coordination Committee (JSCC) includes all relevant Western Australian government agencies. As such, in the event of an oil spill potentially affecting fisheries, decisions (including those regarding affected fisheries) would be made by the OPICC and/or JSCC, in consultation with INPEX.  - INPEX's OSMP (which will be referred to for this Activity) includes a Scientific Monitoring program (SM12) to Determine the Impact of the Oil Spill on Commercial, Traditional and Recreational Fisheries, which may include assessment of contamination and tainting in fish products and reproductive impairment, depending on type, nature and scale of the spill.	N/A	N/A - consultation sent by INPEX	N/A
3/03/2022	Email/letter from stakeholder	WAFIC thanked INPEX for response. WAFIC advised that at this stage they have no further comments regarding the proposal.	N/A	N/A - General correspondence	N/A	
North West Slope Trawl Fishery	8/02/2022	Email/letter to stakeholder from WAFIC on behalf of INPEX	Email and fact sheet sent to stakeholder with details of proposed Browse Basin offshore exploration drilling activities that INPEX plans to conduct in exploration titles WA-343-P and WA-285-P, offshore north-west Australia between 2023 to 2025. The fact sheet summarises the activities including: - the location and schedule of activity - a description of the exploration drilling activities - safety exclusion zones in place during the conduct of the activities; and - environmental management approaches INPEX requested that stakeholders provide feedback or queries regarding the proposed activities by 7 March 2022. INPEX requested that the stakeholder advise INPEX of any provided information/comments that is not suitable for public disclosure, and advised that such information will be omitted/redacted from the published EP and provided separately and privately to NOPSEMA.	Yes - activity fact sheet	N/A - consultation sent by INPEX	N/A
Northern Demersal Scalefish Manage	8/02/2022	Email/letter to stakeholder from WAFIC on behalf of INPEX	Email and fact sheet sent to stakeholder with details of proposed Browse Basin offshore exploration drilling activities that INPEX plans to conduct in exploration titles WA-343-P and WA-285-P, offshore north-west Australia between 2023 to 2025. The fact sheet summarises the activities including: - the location and schedule of activity - a description of the exploration drilling activities - safety exclusion zones in place during the conduct of the activities; and - environmental management approaches INPEX requested that stakeholders provide feedback or queries regarding the proposed activities by 7 March 2022. INPEX requested that the stakeholder advise INPEX of any provided information/comments that is not suitable for public disclosure, and advised that such information will be omitted/redacted from the published EP and provided separately and privately to NOPSEMA.	Yes - activity fact sheet	N/A - consultation sent by INPEX	N/A



Appendix B.6 -  
**Summary Consultation Report - 2023**



Jurisdiction	Relevant Person	Outgoing Date	Incoming Date	Type of Correspondence	Attachments provided (additional info such as map, fact sheet etc)	Summary of Correspondence (Identifying any objection, claim, relevant matter) / Summary statement of INPEX response	Assessment of Merit	Summary of changes to the EP as a result of relevant person feedback
<b>Department, Agency, Minister</b>								
Commonwealth	Australian Maritime Safety Authority (AMSA) - Marine Environment Pollution Response	NA	NA	NA	NA	Consulted in 2022 - AMSA provided input which was included in the EP.	NA	
Western Australia	Department of Biodiversity Conservation and Attractions (DBCA)	NA	NA	NA	NA	Consulted in 2002 - previous consultation was sufficient.	NA	
Commonwealth	Direction of National Parks	NA	NA	NA	NA	Consulted in 2002 - previous consultation was sufficient.	NA	
Commonwealth	Department of Foreign Affairs and Trade (DFAT)	13/01/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPSEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		13/02/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 1 March 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		3/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		6/04/2023	NA	Email	Link to EP summary website	Re-sent to email address from NOSPSEMA guidelines.	N/A - correspondence sent by INPEX	
		NA	19/05/2023	Email	NA	DFAT noted that activities will be conducted in Australian waters and environmental management is therefore a matter for Australian domestic regulators. Plans should be submitted to NOSPSEMA in accordance with relevant regulations. DFAT noted from oil spill modelling that Indonesia and Timor-Leste may be impacted. If it is determined that there is a need to consult the Indonesian or Timor-Leste Governments, DFAT can provide assistance. NOSPSEMA can contact the relevant part of DFAT should this be necessary.	Relevant matter - relevant person has provided information relevant to the activity and/ or their functions, interest or activities.	External notifications in the event of an oil spill include NOSPSEMA and are presented in Section 9.11.3 of the EP.
		30/05/2023	NA	Email	NA	INPEX confirmed that the EP had been submitted to NOSPSEMA for assessment. INPEX noted in the event of an oil spill, INPEX would report the spill to NOSPSEMA, who would contact DFAT in the event of a spill entering Indonesian or Timor-Leste waters. INPEX advised that if DFAT had no further comments then consultation for the development of this EP would be considered closed.	N/A - correspondence sent by INPEX	
		NA	31/05/2023	Email	NA	DFAT thanked INPEX for clarifying oil spill response processes and advised had no further comments at this stage.	General correspondence	
		NA	NA	NA	NA	Consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3).	NA	
Commonwealth	Department of Foreign Affairs and Trade (DFAT) - Perth Treaty	11/09/2023	NA	Email	EP summary website C090-DH-MAP-11119_2	INPEX's planned activities are wholly within the EEZ of Australia, as such there is no overlap of planned activities with the Perth Treaty boundaries. Given DFAT's role in joint management of the Perth Treaty, INPEX sought to confirm understanding of notification requirements in the event of an unplanned oil spill that may affect the Perth Treaty Area.	N/A - correspondence sent by INPEX	
		NA	13/09/2023	Email	NA	DFAT confirmed receipt and will respond as soon as possible.	General correspondence	
		13/09/2023	NA	Email	NA	INPEX thanked DFAT for response.	N/A - correspondence sent by INPEX	
		19/09/2023	NA	Email	NA	INPEX followed up, advised of EP resubmission timing.	N/A - correspondence sent by INPEX	
		NA	19/09/2023	Email	NA	DFAT will respond as soon as possible.	General correspondence	
		26/09/2023	NA	Email	NA	INPEX followed up previous correspondence.	N/A - correspondence sent by INPEX	
		27/09/2023	NA	Email	NA	INPEX advised DFAT that EP will be submitted shortly. In the event DFAT advice is received after submission, it will be assessed via EP MOC process and the notification process amended in the EP if necessary.	N/A - correspondence sent by INPEX	
		NA	27/09/2023	Email	NA	DFAT acknowledgement of receipt, advised team response is being prepared and of some terminology updates.	Relevant matter - relevant person has provided or requested information relevant to the activity and/ or their functions, interest or activities.	BROPEP (Revision 6) Table 2-4 has been updated to reflect the correct terminology. Table 9-7 of the EP has been updated to reflect the following commitment: INPEX will confirm with DFAT its understanding of notifications in the highly unlikely event of an oil spill entering the Perth Treaty Area.



		NA	NA	NA	NA	<p>Consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations with the exception of confirming INPEXs understanding of oil spill notification requirements is correct.</p> <p>INPEX previously consulted with DFAT between January - May 2023 in relation to notifications required in the event of an unplanned oil spill (refer to DFAT section of this log). INPEX was advised it should contact NOPSEMA who would contact the relevant DFAT Department. However, INPEX is now of the understanding it is DISR that is required to be notified and would engage with DFAT. INPEX is seeking to confirm this understanding is correct.</p> <p>INPEX's planned activities are wholly within the EEZ of Australia therefore there is no overlap of planned activities with the Perth Treaty Area boundaries. INPEX will confirm with DFAT its understanding of notifications in the highly unlikely event of an oil spill entering the Perth Treaty Area.</p> <p>Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3).</p>	NA	
Commonwealth	Department of Foreign Affairs and Trade (DFAT) - Maritime Boundaries Treaty between Australia and Timor Leste (formerly Joint Petroleum Development Area (JPDA))	11/09/2023	NA	Email	EP summary website	INPEX noted that DFAT is responsible for joint management of the Joint Petroleum Development Area (JPDA). INPEX's planned activities are wholly within the EEZ of Australia therefore there is no overlap of planned activities with the JPDA boundaries. INPEX sought to confirm understanding of notification requirements in the event of an unplanned oil spill that may affect the JPDA.	N/A - correspondence sent by INPEX	
		15/09/2023	NA	Email	NA	Followed up email that was sent on 11/9/23.	N/A - correspondence sent by INPEX	
		15/09/2023	NA	Email	NA	Followed up email sent on 11/9/23 to alternate email due to out of office notification received.	N/A - correspondence sent by INPEX	
		15/09/2023	NA	Email	NA	Followed up email sent on 11/9/23 to alternate email due to out of office notification received.	N/A - correspondence sent by INPEX	
		NA	15/09/2023	Email	NA	DFAT acknowledgement of receipt, advised team response is being prepared.	General correspondence	
		19/09/2023	NA	Email	NA	INPEX followed up previous correspondence, advised of EP resubmission timing.	N/A - correspondence sent by INPEX	
		26/09/2023	NA	Email	NA	INPEX followed up previous correspondence.	N/A - correspondence sent by INPEX	
		27/09/2023	NA	Email	NA	INPEX advised DFAT that EP will be submitted shortly. In the event DFAT advice is received after submission, it will be assessed via EP MOC process and the notification process amended in the EP if necessary.	N/A - correspondence sent by INPEX	
		NA	27/09/2023	Email	NA	DFAT acknowledgement of receipt, advised team response is being prepared and of some terminology updates.	Relevant matter - relevant person has provided or requested information relevant to the activity and/ or their functions, interest or activities.	BROPEP (Revision 6) Table 2-4 has been updated to reflect the correct terminology. Table 9-7 of the EP has been updated to reflect the following commitment: INPEX will confirm with DFAT its understanding of notifications in the highly unlikely event of an oil spill entering the Maritime Boundaries Treaty Area.
		NA	NA	NA	NA	<p>Consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations with the exception of confirming INPEXs understanding of oil spill notification requirements is correct.</p> <p>INPEX previously consulted with DFAT between January - May 2023 in relation to notifications required in the event of an unplanned oil spill (refer to DFAT section of this log). INPEX was advised it should contact NOPSEMA who would contact the relevant DFAT Department. However, INPEX is now of the understanding it is DISR that is required to be notified and would engage with DFAT. INPEX is seeking to confirm this understanding is correct.</p> <p>INPEX's planned activities are wholly within the EEZ of Australia therefore there is no overlap of planned activities with the Maritime Boundaries Treaty Area boundaries. INPEX will confirm with DFAT its understanding of notifications in the highly unlikely event of an oil spill entering the Maritime Boundaries Treaty Area.</p> <p>Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3).</p>	NA	
Northern Territory	Department of Industry, Tourism and Trade - Fisheries - Aquatic biosecurity section	13/01/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		NA	13/01/2023	Email	N/A	Automated reply - confirmation of receipt.	General correspondence	
		13/02/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 1 March 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		3/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	

Northern Territory	Department of Industry, Tourism and Trade (DITT) - Fisheries	13/01/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		NA	16/01/2023	Email	N/A	DITT Fisheries thanked INPEX for the opportunity to provide comment on the proposed activity. The permit area is contained wholly within WA waters and consequently there are no Northern Territory commercial fisheries operating within the area. Nonetheless, the stock structure of many commercially and recreationally important fish species is not well understood and any potential impact on aquatic life within the permit area as a result of this work could potentially negatively impact on shared fish stocks that straddle the WA/NT border. Although NT Fisheries have no specific comment on the proposed activities at this stage, we would nonetheless like to be kept updated on the activities going forward.	Relevant matter - relevant person has provided information relevant to the activity and/ or their functions, interest or activities.	In response to the relevant matter raised by NT DITT – Fisheries, INPEX will include NT DITT – Fisheries in any project updates shared during the activity which has been incorporated in Section 9.8.3 of the EP.
		17/01/2023	NA	Email	N/A	INPEX thanked DITT Fisheries for their feedback. INPEX noted DITT Fisheries did not have any specific feedback at this time, and asked if they would like to be kept informed of start and completion dates, or any other specific information.	N/A - correspondence sent by INPEX	
		NA	24/01/2023	Email	N/A	DITT Fisheries would like to receive any publicly available updates/flyers as the project progresses.	General correspondence	
		25/01/2023	NA	Email	N/A	INPEX advised they would provide publicly available information as the project progresses and that feedback was welcome at any stage in the future.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	Consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3).	NA	
Western Australia	Department of Planning, Lands and Heritage (DPLH)	13/01/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		NA	13/01/2023	Email	N/A	Automated reply - confirmation of receipt.	General correspondence	
		NA	3/02/2023	Email	N/A	DPLH advised that due to location of proposed activities (the permits do not intersect any known Aboriginal sites or heritage places) that approvals under WA Aboriginal Heritage Act 1972 are not required.	Not a relevant matter	
		21/02/2023	NA	Email	N/A	INPEX confirmed DPLH position and advised that consultation would be closed for purposes of developing EP.	N/A – correspondence from INPEX	
		NA	NA	NA	NA	Consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3).	NA	
Western Australia	Department of Transport (WA DoT) – Marine Safety	30/03/2022	NA	Email	Browse Regional OPEP	INPEX provided WA DoT with a copy of the Browse Regional OPEP (BROPEP) for their review.	N/A – correspondence from INPEX	
		NA	22/07/2022	Email	Browse Regional OPEP	WA DoT undertook a review of the BROPEP and made a number of specific comments and queries in relation to their role in the BROPEP. Refer to the attached table (INPEX-WA DoT consultation summary - 2022/2023).	Relevant matter - relevant person has provided information relevant to the activity and/ or their functions, interest or activities.	Please refer to Appendix B.5 consultation report for a summary of consultation between INPEX and WA DoT in 2022. Following the 2022 review by WA DoT confirmed the following and made the required updates to the Browse regional OPEP documents: • INPEX confirmed the worst-case spill scenario (WCSS) for WA-50-L operations, production drilling, URF Phase 2A and GEP operations, and also the WA-285-P and WA-343-P exploration drilling campaigns, are all driven by either the Holonema well blowout scenario, or HFO scenario in WA-50-L. Regardless of the activity type or location, the protection priorities remain #1 – Browse Island (most likely to receive oil in an event), followed by all other offshore Kimberly atolls/reefs (e.g. Ashmore, Scott Reef etc). All INPEX activities in the Joseph Bonaparte Gulf are related to Carbon Capture Storage exploration seismic or drilling activities – i.e. no oil/gas reservoir, just diesel spill scenarios only. All diesel spill scenarios (max 500 m3) modelled from this location do not result any shoreline contact >10g/m2, therefore there are no shoreline protection priorities from those activities. Therefore, the protection priorities, as described in the BROPEP, are applicable for all INPEX EPs / BROPEP WCSS. • INPEX confirmed on water response strategies such as Containment & Recovery and vessel dispersant are only relevant to bunker oil (IFO/HFO) fuel spills, (not diesel or condensate). Response termination for these on water strategies are related to response efficiency only (i.e. ongoing dispersant efficacy or skimmer recovery rates), and are not related to visible sheen or any other metric. Therefore, the termination criteria for on water response strategies is proposed to remain unchanged from the 20/02/2023 BROPEP updates shared with WA DoT.
		21/09/2022	NA	Email	Browse Regional OPEP	INPEX responded to WA DoT comments and queries, making the necessary updates to the BROPEP where requested. Refer to the attached table (INPEX-WA DoT consultation summary - 2022/2023).	N/A - correspondence sent by INPEX	
		NA	8/12/2022	Email	Browse Regional OPEP	WA DoT responded to INPEX's updates made to the BROPEP and made further comments and queries in relation to the BROPEP. Refer to the attached table (INPEX-WA DoT consultation summary - 2022/2023).	Relevant matter - relevant person has provided information relevant to the activity and/ or their functions, interest or activities.	
		20/02/2023	NA	Email	Browse Regional OPEP	INPEX responded to WA DoT additional comments and queries, making the necessary updates to the BROPEP where requested. Refer to the attached table (INPEX-WA DoT consultation summary - 2022/2023).	N/A - correspondence sent by INPEX	
		NA	29/03/2023	Email	Browse Regional OPEP	WA DoT responded to INPEX's updates made to the BROPEP and made further comments and queries in relation to the BROPEP. Refer to the attached table (INPEX-WA DoT consultation summary - 2022/2023).  Following the 2022 review of INPEX's Browse regional OPEP, WA DoT provided further feedback on the following: • It is the DoT expectation that Petroleum Titleholders detail site specific protection priorities for each activity. If this information does not fit in the BROPEP document itself, we ask to see this in the activity specific information to be provided separately for each activity. • Termination criteria – consideration should be given between a 'how clean is clean' perspective rather than just when the response option is no longer viable from an equipment effectiveness point of view. For example, termination of on water response for the response phase could focus on 'no visible oil, slicks or sheens' as one of those measures. Further monitoring would be covered under the Scientific Monitoring plan but that level may be sufficient for the end of the response phase. Noting that the Control Agency will make the final determination during an actual incident, however, any contingency planning around this is useful.	Relevant matter - relevant person has provided information relevant to the activity and/ or their functions, interest or activities.	
		30/03/2023	NA	Email	Browse Regional OPEP	INPEX responded to WA DoT additional comments and queries, making the necessary updates to the BROPEP where requested. Refer to the attached table (INPEX-WA DoT consultation summary - 2022/2023).	N/A - correspondence sent by INPEX	

		NA	NA	NA	NA	Consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3).	NA	
Northern Territory	Northern Territory Environment Protection Authority	13/01/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		NA	13/01/2023	Email	N/A	Automated reply - confirmation of receipt.	General correspondence	
		13/02/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 1 March 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		3/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
Commonwealth	Department of Climate Change, Energy, the Environment and Water - Underwater Cultural Heritage	13/01/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		13/02/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 1 March 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		15/02/2023	NA	Email	Shipwrecks data maps included.	INPEX emailed UCH with a query, requesting for clarifications on discrepancies in shipwrecks data discovered during the development of the EP. INPEX requested further information on shipwrecks in the vicinity of Browse Island.	N/A - correspondence sent by INPEX	
		NA	9/03/2023	Email	NA	The department confirmed a desktop assessment is the first step in a recommended UCH Impact Assessment for the purposes of the Underwater Cultural Heritage Act 2018 (UCH Act) and provided additional information, requested by INPEX, on shipwreck locations in proximity to Browse Island. Further guidance was also provided regarding the UCH Act protection: •Under the UCH Act, remains of vessels (shipwrecks) are automatically protected if they have been in Australian waters (including Coastal Waters) for 75 years or more. This protection applies whether or not the remains have been previously located. •Disturbance of protected shipwreck, or any other adverse impact including an indirect impact, without a permit is an offence under the UCH Act. •Additionally, other UCH such as historic aircraft and First Nations Underwater Cultural Heritage (FNUCH), are protected under State legislation within Coastal Waters. •Discovery of UCH must also be notified within 21 days of the discovery. •Proponents of seabed developments are expected to perform both desktop and direct assessments of the potential UCH resource of their project area prior to work commencing. •The Department recommends that proponents of near and offshore developments consult early and ongoingly with: -the UCH line area (UnderwaterHeritage@dceew.gov.au); -a suitably qualified maritime archaeologist; -the relevant State or Territory agency; and -any individuals, groups or communities that may have a particular interest in the UCH of the environment that may be impacted by the action.	Relevant matter - relevant person has provided information relevant to the activity and/ or their functions, interest or activities.	Information provided to INPEX on shipwreck locations in proximity to Browse Island has been incorporated into the EP (Section 4.11.4). Potential impacts and risks to underwater cultural heritage has been assessed in Section 7 and 8 of the EP. Requirements of the Underwater Cultural Heritage Act 2018 with respect to environmental planning. Has been captured within Section 2.2 of the EP.
		20/03/2023	NA	Email	N/A	In addition to the initial EP consultation materials issued to the Department as a relevant person, INPEX also requested specific information on shipwreck locations in proximity to Browse Island. This information was provided to INPEX and has been incorporated into the EP (Section 4.11.4) so that a desktop assessment of potential impacts and risks to underwater cultural heritage can be made with regards to the proposed offshore petroleum activity (Section 7 and 8 of the EP). Requirements of the Underwater Cultural Heritage Act 2018 with respect to environmental planning. This information has also been captured within the EP (Section 2.2) With regards to the recommendations made regarding consultation, INPEX can confirm the following: •INPEX has identified the Cultural Heritage Section of the Department as a relevant person and has commenced consultation as part of the EP development process. •As the permit areas are located in Commonwealth waters there are no relevant State or Territory agencies; however, relevant State/Territory agencies (also relevant persons) will be notified by INPEX in the event of an oil spill, in accordance with their requirements for notification. •INPEX is currently undertaking consultation with relevant persons with respect to the proposed activities. This includes consulting with individuals, groups and communities that have a particular interest in underwater cultural heritage/submerged cultural landscapes within the area that may be impacted by an unplanned event (i.e. oil spill).	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	Consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3).	NA	

Northern Territory	Aboriginal Areas Protection Authority	13/01/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		29/03/2023	NA	Email	N/A	INPEX emails AAPA requesting for an opportunity to catch up regarding previously issued correspondence.	N/A - correspondence sent by INPEX	
		NA	29/03/2023	Email	N/A	AAPA responds to INPEX, informing that they are unable to meet on this occasion due to their schedule.	General correspondence	
		29/03/2023	NA	Email	N/A	INPEX responds noting this, further detailing that should the opportunity arise, INPEX would like to talk to AAPA regarding the proposed offshore activities.	N/A - correspondence sent by INPEX	
		NA	29/03/2023	Email	N/A	AAPA responds to INPEX, providing an alternative email address via which INPEX can seek an appointment to meet in-person to discuss the matter.	General correspondence	
		29/03/2023	NA	Email	Letter C050-IPX-AAP-LE-70000	INPEX issues a letter to relevant person requesting for an opportunity to meet in-person to discuss the proposed offshore activities in the Browse Basin.	N/A - correspondence sent by INPEX	
		NA	4/04/2023	Email	N/A	AAPA emails INPEX with proposed dates for an in-person briefing.	General correspondence	
		6/04/2023	NA	Email	NA	INPEX responds to AAPA, requesting for a meeting to be confirmed for 19 April.	N/A - correspondence sent by INPEX	
		11/04/2023	NA	Phone Call	NA	Message left with AAPA to finalise meeting arrangements for 19 April.	N/A - correspondence sent by INPEX	
		13/04/2023	NA	Phone Call	NA	Message left with AAPA to finalise meeting arrangements for 19 April.	N/A - correspondence sent by INPEX	
		17/04/2023	NA	Email	NA	Email to finalise meeting arrangements.	N/A - correspondence sent by INPEX	
		NA	17/04/2023	Email	NA	AAPA proposed a meeting time on 20/4/23 in Darwin	General correspondence	
		17/04/2023	NA	Email	NA	INPEX confirmed meeting time on 20/4/23 in Darwin	N/A - correspondence sent by INPEX	
		20/04/2023	NA	In person meeting	Meeting Minutes file note dated 22 April 2023 20230420 AAPA EP Presentation	In person meeting between representatives of AAPA and INPEX. • AAPA noted that talking to AAPA does not constitute consultations with TOs. INPEX confirmed this understanding. • Discussion was with AAPA in its own right as a Relevant Person who has Functions, Activities and Interests under the Act. • INPEX presented the exploration drilling program EP and the Bonaparte CCS program presentation. • INPEX sought an invitation to present to the AAPA Board, AAPA welcomed the idea • It was noted that AAPA's jurisdiction is in the NT coastal waters and so anything beyond that is outside AAPA's interests, i.e., 3nm offshore. • AAPA noted that it would be interested in the impacts of any unplanned events that might affect sacred sites, e.g., oil spills	Relevant matter - relevant person has provided information relevant to the activity and/ or their functions, interest or activities.	A new section in the Existing Environment Section of the EP (Section 4.11.5) was added to describe Aboriginal and Torres Strait Islander cultural heritage which includes a description of Aboriginal sacred sites within the PEZ.  Culturally significant sites where fishing, hunting, rituals and other important cultural activities take place have been assessed in Section 8 of the EP in Table 8-6 and Table 8-9, with respect to potential consequence in the event of an unplanned event (oil spill).
		NA	3/05/2023	Website	NA	AAPA Assessment and Liaison Officer (not previously met with) recommended INPEX apply for an Authority Certificate for emergency response activities including risk management and spill clean-up /environmental rehabilitation and provided reasoning for recommendation.	Relevant matter - relevant person has provided information relevant to the activity and/ or their functions, interest or activities.	
		4/05/2023	NA	Email	20230420 AAPA EP Presentation AAPA feedback from PlanEngage website	INPEX thanked AAPA for meeting on 20 April and advised lodgement of EPs for Browse and Bonaparte activities are progressing. A copy of presentation delivered during the meeting was provided. INPEX summarised understanding of meeting: - AAPA is concerned about potential impacts and sacred sites within its jurisdiction being NT coastal waters. - INPEX understands that consultation with AAPA is as a relevant person in own right and does not constitute consultation with traditional owners or site custodians. - AAPA interested in unplanned events that may affect sacred sites. In this event, AAPA would be contacted by INPEX as a key stakeholder. - obtaining Authority Certificates prior to unplanned event occurring not possible due to unknown location of event and potential impacts. - potential for annual consultation event between INPEX and AAPA INPEX requested clarification on correspondence sent by an AAPA officer on 3/5/23 that did not align with discussions regarding Authority Certificates. INPEX offered to present to AAPA board on activities and consultation approach.	N/A - correspondence sent by INPEX	
		4/05/2023	NA	Email	NA	INPEX clarified a matter contained in email sent earlier that day: In the fourth dot point it says that INPEX would contact AAPA as a key stakeholder in the event of an unplanned event impacting the coast, and if necessary to seek its assistance in relation to sacred site protection and any emergency applications for Authority Certificates, including the involvement of the relevant TOs and / or local ranger groups at the time.  INPEX clarified that in that form of incident within the 3NM waters limit is that the NT Government who takes over under emergency response arrangements in place with INPEX.	N/A - correspondence sent by INPEX	
		NA	8/05/2023	Email	NA	AAPA provided further information regarding how INPEX could consider obtaining an Authority Certificate prior to unplanned events occurring.	Not a relevant matter	No changes were made to the EP as a result of feedback received from AAPA with regards to obtaining Authority Certificates prior to an unplanned event occurring.
		7/07/2023	NA	Email	NA	INPEX advised AAPA of outcomes of meeting with NT Department of Environment, Parks and Water Security (DEPWS) and core members of the Territory Emergency Management Council (TEMC) with respect to AAPA advice that an Authority Certificate could be obtained by INPEX prior to unplanned events occurring: •TEMCC will be the NT controlling agency, for oil spills which originate in Commonwealth waters, which then enter NT waters/impacting NT shorelines. •TEMCC has gained extensive experience with remote area response operations, during the recent pandemic, and would strongly leverage this experience, including land access and working with the local councils. •TEMCC, as the incident controller, agreed that they would manage all aspects of acquisition and compliance with AAPA certificates, at the time of the spill event. If no further matters have been identified by AAPA INPEX will consider consultation to be closed.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	Consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3).	NA	

Northern Territory	Department of Territory Families, Housing and Communities - Heritage Branch	13/01/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		NA	13/01/2023	Email	N/A	Automated reply - confirmation of receipt.	General correspondence	
		13/02/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 1 March 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		NA	13/02/2023	Email	N/A	Automated reply - confirmation of receipt.	General correspondence	
		3/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
NA	NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA		
Commonwealth	Department of Agriculture, Fisheries and Forestry - Fisheries Branch	30/03/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included list of other Commonwealth departments, industry associations and fishery licence holders that are currently being consulted with. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		13/04/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Commonwealth agency with no response received to date. The NOPSEMA guidance note states the Commonwealth Agencies should respond within 10 business days. Accordingly, consultation prior to the submission of the EP for the purposes of compliance with the OPPGS (E) Regulations has been completed.	NA	
Northern Territory	Darwin Harbour Advisory Committee	13/01/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		13/02/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 1 March 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		3/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations. In addition, INPEX is a member of DHAC further allowing contact to be made.	N/A - correspondence sent by INPEX	
Commonwealth	Australian Fisheries Management Authority (AFMA)	8/09/2023	NA	Email	EP summary website 2022 EP correspondence with AFMA	INPEX sought advice from AFMA on how INPEX might inform traditional Indonesian Fishers that may access the MoU Box of proposed offshore activities.	N/A - correspondence sent by INPEX	
		8/09/2023	NA	Phone Call	NA	Phone message left for AFMA representative; requested a return phone call.	N/A - correspondence sent by INPEX	
		12/09/2023	NA	Phone Call	NA	Phone message left for AFMA representative; requested a return phone call.	N/A - correspondence sent by INPEX	
		NA	12/09/2023	Phone Call	NA	AFMA representative advised they would contact AFMA staff that could assist INPEX and ask them to respond to INPEX email	General correspondence	
		NA	13/09/2023	Email	NA	AFMA representative advised that the MoU Box may have numerous fishers operating at a given time and they're not licenced or regulated by AFMA. AFMA advised that the Indonesian fishers who access the MoU box are from a wide geographical area and AFMA does not have contact details for them.	Relevant matter - relevant person has provided or requested information relevant to the activity and/ or their functions, interest or activities.	Section 4.12.1 <i>Indonesian Traditional Fishing</i> has been updated to reflect feedback from AFMA with respect to traditional fishers in the MoU box. Further detail has also been included regarding targeted species.
		14/09/2023	NA	Email	NA	INPEX thanked AFMA for prompt response.	N/A - correspondence sent by INPEX	

			NA	NA	NA	NA	Consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3).	NA	
<b>Local Government Areas</b>									
Western Australia	Shire of Broome	13/02/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX		
		22/03/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 1 March 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX		
		3/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX		
		NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA		
Western Australia	Shire of Derby - West Kimberley	13/02/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX		
		22/03/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 1 March 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX		
		NA	3/04/2023	Email	N/A	Relevant persons responds to INPEX, confirming no specific comments other than spill management is acknowledged and local involvement could be of assistance if that were to occur.	Not a relevant matter		
		4/04/2023	NA	Email	N/A	INPEX noted that in the event of a spill in WA waters, the WA Department of Transport would be the lead agency for conducting any spill response activities and INPEX will provide support as directed. INPEX indicated that consultation could be closed with Shire at this time, and INPEX welcomed any future queries.	N/A - correspondence sent by INPEX		
		NA	NA	NA	NA	Consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3).	NA		
Western Australia	Shire of Wyndham - East Kimberley	13/02/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX		
		22/03/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 1 March 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX		
		3/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX		
		NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA		
Northern Territory	Tiwi Island Regional Council	NA	NA	NA	NA	Throughout 2023 INPEX has engaged with the Tiwi Land Council (TLC). Refer to TLC section of this log.	NA		
		1/06/2023	NA	Email	Letter C050-IPX-----LE-70031	Letter to TIRC requested opportunity to undertake consultation with TIRC as a relevant person regarding proposed offshore exploration activities in the Browse Basin. Noted that consultation is underway with the Tiwi Land Council.	N/A - correspondence sent by INPEX		
		22/06/2023	NA	Phone Call	NA	Phone call to TIRC, unable to get through.	N/A - correspondence sent by INPEX		

		23/06/2023	NA	Phone Call, email	Email with letter attachment C050-IPX-----LE-70031 sent by INPEX 1/6/23	Phone call placed (no response) with email follow up advising that INPEX will be visiting Wurrumiyanga during week of 3rd July and would like to meet with TIRC regarding EP consultation.	N/A - correspondence sent by INPEX	
		3/07/2023	NA	Phone Call	NA	Phone call to TIRC, unable to get through.	N/A - correspondence sent by INPEX	
		10/07/2023	NA	Email	C050-IPX-----LE-70040 EP summary website	INPEX provided overview and maps of proposed offshore activities, why INPEX is consulting and how TIRC can provide feedback if they wish to do so.	N/A - correspondence sent by INPEX	
		15/07/2023	NA	Phone Call	NA	Phone call to TIRC, unable to get through.	N/A - correspondence sent by INPEX	
		26/07/2023	NA	Phone Call	NA	Phone message left for CEO, asking them to return call.	N/A - correspondence sent by INPEX	
		26/07/2023	NA	Email	NA	INPEX followed up previous correspondence, indicated availability for in person meeting on the Tiwi Islands.	N/A - correspondence sent by INPEX	
		NA	26/07/2023	Phone Call	NA	TIRC CEO phoned INPEX, advised TIRC was not likely a relevant person who had functions, activities or interests that might be affected by INPEXs proposed offshore activities. Notwithstanding, indicated that a briefing would be appreciated at some point from INPEX. Date to be determined.	Not a relevant matter	For the activities described in this EP, during the course of consultation it was established that the TIRC do not consider themselves as a relevant person. Future briefings may occur for new INPEX offshore activities as part of consultation requirements should the TIRC be identified as relevant to those activities.
		NA	NA	NA	NA	Consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3).	NA	
Northern Territory	West Daly Regional Council	13/01/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		13/02/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 1 March 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		3/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		12/04/2023	NA	Phone Call	NA	INPEX attempted to call West Daly Regional Council, but was unable to get through.	N/A - correspondence sent by INPEX	
		14/04/2023	NA	Phone Call	NA	During phone call WDRC Executive Officer advised that there was an opportunity for INPEX to brief an ordinary meeting of the WDRC and then the Wadeye Local Authority regarding the exploration drilling EP. INPEX advised it would re-send the original information via email and that it was their desire to work something out that wasn't onerous on council or community. INPEX informed WDRC of other local groups / councils they have been consulting with.	NA	
		14/04/2023	NA	Email	NA	INPEX sends a follow up email to summarise the discussion had over the phone earlier that day, noting that INPEX would be interested in briefing the Council on the details further when possible.	N/A - correspondence sent by INPEX	
		27/04/2023	NA	Email, phone call	NA	Phone call with follow up email to advise that INPEX will be in Darwin next week and available to meet with WDRC if possible.	N/A - correspondence sent by INPEX	
		3/05/2023	NA	Phone Call	NA	Discussion with WDRC representative to arrange an introductory meeting with Operations Manager.	N/A - correspondence sent by INPEX	
		4/05/2023	NA	In person meeting	PowerPoint Presentation	INPEX met with WDRC Health Safety and Risk Manager and briefed on current and future INPEX EP Consultation requirements and the approach to WDRC. Discussed: - possibility of meeting in Wadeye with Wadeye Local Authority - option for TLC and/or Thamarurr Ranger Coordinator to join discussion - likely need to meet with the coastal clan groups and how to best approach this - discussed whether WDRC is a relevant person in own right - more detailed discussion required. - long term need for consultation; WDRC and Wadeye likely to be inundated with requests - INPEX seeking to develop an approach with WDRC that is sustainable and not burdensome; possibility of an annual briefing with follow ups for specific EPs as required.	General correspondence	
		4/05/2023	NA	Email	NA	INPEX thanked WDRC representative for their time during meeting earlier in the day. INPEX keen to brief the WDRC and the Wadeye Local Authority about EPs that have recently been submitted. INPEX noted that WDRC had replied to INPEX in relation to Bonaparte EPs, stating no comment or objection to EP. No formal response received from WDRC regarding Browse Exploration Drilling EP. Requirement for EP consultation is ongoing and INPEX is keen to establish sustainable methods to consult with potentially relevant organisations and people associated with Port Keats Daly River Land Trust coastline. INPEX has been consulting with Thamarurr Development Corporation; their CEO and Ranger Coordinator might join a meeting with Local Authority members and others at Wadeye. INPEX also in regular contact with NLC.	N/A - correspondence sent by INPEX	
		NA	16/05/2023	Phone Call	NA	WDRC representative advised the WDRC leadership team had discussed recent communications from INPEX regarding EPs. As CEO was not present for discussion decision was made to brief on his return for his consideration.	General correspondence	
		30/05/2023	NA	Phone Call	NA	INPEX left a message for a WDRC representative regarding meeting.	N/A - correspondence sent by INPEX	

		NA	5/06/2023	Phone Call	NA	WDRC phoned INPEX to advise that a meeting at with WDRC at Wadeye can be held on Friday 16 June. INPEX advised this was suitable and agreed to keep liaising on meeting arrangements.	General correspondence	
		6/06/2023	NA	Email	NA	INPEX confirmed attendees and logistics for meeting on 16 June at Wadeye.	N/A - correspondence sent by INPEX	
		NA	8/06/2023	Email	NA	WDRC clarified that Wadeye meeting had been proposed for 16 August, not 16 June.	General correspondence	
		8/06/2023	NA	Email	NA	INPEX advised 16 August date was suitable.	N/A - correspondence sent by INPEX	
		20/07/2023	NA	Email	EP summary website	INPEX followed up previous communications and advised that while the EP will be submitted to NOPSEMA in late July 2023 the opportunity to engage and provide feedback remains open. INPEX provided update on upcoming community consultation sessions in the NT, including a session planned for Wadeye. An INPEX representative will be in touch regarding logistics and planning. INPEX looks forward to discussion long term approach to engagement at the upcoming meeting.	N/A - correspondence sent by INPEX	
		2/08/2023	NA	Phone call	NA	Community consultation logistics discussed (dates confirmed, services / facilities that could be provided by WDRC including accommodation for Field Officers and meeting rooms).	General correspondence	
		2/08/2023	NA	Email	INPEX EP Consultation Notice #1	INPEX provided update on upcoming community consultations in Wadeye. INPEX advised they are in contact with Thamarurr Development Corporation (TDC) regarding the consultation, and seek to have one or two people from TDC sit in on the consultation. INPEX asked if WDRC conference room was available to hire on specified dates, and if suggestions could be provided for catering and accommodation. A community consultation notice was provided for posting on WDRC social media, if appropriate. INPEX is available on phone and to meet in person next week as required.	N/A - correspondence sent by INPEX	
		16/08/2023	NA	In person meeting	NA	INPEX travelled to Wadeye for scheduled meeting. On arrival, WDRC advised that they could not bring together a quorum so the meeting did not proceed.	General correspondence	
		19/09/2023	NA	Email	NA	INPEX advised it now understands the function of the WDRC – Wadeye Local Authority is primarily related to the provision of municipal services to the community. As such, INPEX considers that the functions, activities and interests of the WDRC are not affected by INPEXs proposed activities. The Council is no longer considered a Relevant Person for the purposes of the OPGGS (Environment) Regulations 2009. INPEX appreciates the role the Council has played in facilitating meetings and consultation with traditional owners that reside in the community.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	Consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3).	NA	
Christmas Island	Shire of Christmas Island	13/01/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		13/02/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 1 March 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		3/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
Cocos (Keeling) Islands	Shire of Cocos (Keeling) Islands	13/01/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		13/02/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 1 March 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		3/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	



Western Australia	Shire of Port Hedland	13/01/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		4/04/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
Western Australia	Shire of East Pilbara	13/01/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		13/02/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		3/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
Northern Territory	Victoria Daly Regional Council	30/03/2023	NA	Email	Letter C050-IPX----LE-70028	INPEX emails Victoria Daly Regional Council to request for an opportunity to undertake consultation with regards to proposed offshore activities.	N/A - correspondence sent by INPEX	
		12/04/2023	NA	Phone Call	NA	INPEX attempted to call Victoria Daly Regional Council, no response. INPEX left a voice message.	N/A - correspondence sent by INPEX	
		27/04/2023	NA	Phone Call, email	NA	Message left with CEO to follow up letter sent 30 March 2023. Email follow up also sent.	N/A - correspondence sent by INPEX	
		3/05/2023	NA	Phone Call	NA	Phone call with Reception to follow up call and email on 27 April.	N/A - correspondence sent by INPEX	
		NA	3/05/2023	Phone Call	NA	Discussion with VDRC CEO regarding meeting dates and logistics for INPEX to consult with VDRC and / or Timber Creek Local Authority. CEO suggested that NLC should be a key stakeholder; INPEX advised we are working closely with NLC.	General correspondence	
		NA	11/05/2023	Phone Call	NA	CEO of VDRC phoned INPEX to confirm briefing planned on 29 May in Katherine.	General correspondence	
		29/05/2023	NA	In person meeting	PowerPoint presentation	INPEX provided EP briefing to VDRC Mayor and Councillors. Discussed whether a briefing may be required for Timber Creek Local Authority and whether VDRC considers itself a relevant person. Discussed INPEX engagement effort and strategy in the region.	General correspondence	
		30/05/2023	NA	Email	PowerPoint presentation	INPEX followed up meeting on previous day. INPEX sought confirmation on status of briefing requirement for Timber Creek Local Authority and whether VDRC considers itself a relevant person. Offered briefings on offshore activities in the future if of interest to VDRC. INPEX thanked VDRC for information and advice provided in relation to INPEX broader engagement effort in the region.	N/A - correspondence sent by INPEX	
		7/06/2023	NA	Phone Call	NA	INPEX spoke with VDRC CEO to follow up outcome of meeting in Katherine on 29th May. VDRC CEO was aiming to respond via email today, but advised they are likely to say that VDRC does not consider itself a relevant person.	General correspondence	
		NA	7/06/2023	Email	NA	VDRC thanked INPEX for the presentation on 29 May. VDRC confirmed there was no need to brief the Timber Creek Local Authority and that the VDRC does not see itself as a relevant person. Council requested to be kept updated with any projects INPEX thinks might be relevant for VDRC.	General correspondence	
7/06/2023	NA	Email	NA	INPEX thanked VDRC for email where they confirmed they do not see themselves as relevant persons in this instance.	N/A - correspondence sent by INPEX			
NA	NA	NA	NA	Consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3).	NA			
Northern Territory	Belyuen Community Government Council	30/03/2023	NA	Email	Letter C050-IPX----LE-70026	INPEX emailed Belyuen Community Government Council (as representatives of the Belyuen people) on 30 March, with a letter attached, requesting for an opportunity to consult with the Council in relation to the Environment Plans for proposed offshore activities.	N/A - correspondence sent by INPEX	

20/04/2023	NA	Phone Call	NA	INPEX spoke with CEO in follow up to letter sent 30/3/23. CEO advised letter would be reviewed and a response would be provided in due course.	N/A - correspondence sent by INPEX	
6/05/2023	NA	Phone Call	NA	Meeting scheduling discussion.	N/A - correspondence sent by INPEX	
6/05/2023	NA	Email	NA	Email to follow up earlier phone call to arrange a briefing for BCGC representative. Offered to brief the Council at an ordinary meeting or a briefing day.	N/A - correspondence sent by INPEX	
9/05/2023	NA	Email	Letter C050-IPX----LE-70026	INPEX requested to brief Council regarding proposed activities (letter previously sent on 30 March 2023 attached to email). Overview of planned presentation provided.	N/A - correspondence sent by INPEX	
22/05/2023	NA	Phone Call	NA	BCGC advised that INPEX EP consultation information would be added to agenda for Council meeting scheduled for 30 May, and a response provided after the meeting.	General correspondence	
7/06/2023	NA	Phone Call, email	NA	Phone message left with follow up email to see if there was any news from the Council meeting held last week.	N/A - correspondence sent by INPEX	
NA	7/06/2023	Phone Call	NA	CEO of BCGC advised INPEX of a council meeting the following day; requested INPEX attend via Teams.	General correspondence	
8/06/2023	NA	Teams Meeting	NA	INPEX provided BCGC CEO, President and Vice President overview of why INPEX was consulting and for what purpose. BCGC indicated it was important to brief Council and the five TO groups on the Cox Peninsula. This can be conducted by INPEX at Belyuen with BCGC to help organise. INPEX was invited to Belyuen the following week to meet and plan the consultation.	General correspondence	
15/06/2023	NA	In person meeting	Project activity maps C090-DH-MAP-11236_0 C090-DH-MAP-11237_0 EP Summary website	Meeting at Belyuen community office at Wagait Beach between BCGC and INPEX. INPEX provided overview of INPEX and proposed offshore activities. INPEX advised who we have been consulting with so far and sought advice on who INPEX should meet with further down the coast from Wagait to Wadeye. BCGC representatives indicated they could assist with arranging meetings with community.	General correspondence	
10/07/2023	NA	Phone Call	NA	Discussion regarding status of council as relevant person or otherwise and scheduling arrangements for upcoming in person meeting.	General correspondence	
12/07/2023	NA	Email	EP summary website	Meeting scheduling arrangements for briefing planned for 25th July, including planned content, attendees and purpose of meeting	N/A - correspondence sent by INPEX	
25/07/2023	NA	In person meeting	Meeting minutes PowerPoint presentation	BCGC advised they were not a relevant person in this instance. However BCGC confirmed they could provide some services to support upcoming INPEX community consultation meetings. Discussed date preferences for meetings and guidance on possible attendees. Further discussions to follow regarding the consultation meetings.	Not a relevant matter	
25/07/2023	NA	Email	PowerPoint presentation	INPEX provided a copy of the PowerPoint presentation shown in the meeting and advised they would be in touch regarding assistance BCGC might be able to provide for the planned community consultation meetings .	N/A - correspondence sent by INPEX	
NA	NA	NA	NA	Consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3).	NA	

**Aboriginal and Torres Strait Island Community**

Northern Territory	Northern Australian Indigenous Land and Sea Management Alliance (NAILSMA)	29/03/2023	NA	Letter	Letter C050-IPX----LE-70025	INPEX requests opportunity to meet in-person and discuss proposed offshore activities and EPs. INPEX asks NAILSMA to confirm their interest and availability for consultation.	N/A - correspondence sent by INPEX	
		14/04/2023 - 3/5/2023	NA	Phone Call	NA	Phone messages left by INPEX.	N/A - correspondence sent by INPEX	
		NA	4/05/2023	Phone Call	NA	NAILSMA representative advised INPEX of recent personnel changes and that the letter sent 29/03/23 would be reviewed and response provided.	General correspondence	
		NA	4/05/2023	Email	NA	NAILSMA proposed times for meeting with INPEX.	General correspondence	
		4/05/2023	NA	Email	NA	Meeting scheduling arrangements.	N/A - correspondence sent by INPEX	
		24/05/2023	NA	In person meeting	EP summary website	Information meeting to discuss EP consultation and INPEXs' proposed offshore activities.	General correspondence	
		30/05/2023	NA	Email	NA	INPEX thanked NAILSMA for meeting the previous week to discuss EP consultation and INPEXs' proposed offshore activities. INPEX reiterated offer to meet in Perth during the AIATSIS conference. INPEX offered a further briefing for NAILSMA if desired and to understand if NAILSMA considers itself a relevant person.	N/A - correspondence sent by INPEX	
		6/06/2023	NA	In person meeting	NA	In person meeting at AIATSIS Summit between NAILSMA and INPEX representatives. Discussion included EP consultation.	General correspondence	
		16/06/2023	NA	Email	NA	INPEX followed up meeting on 6/6/23 and offered a briefing to NAILSMA on EP Consultation. INPEX is keen to understand whether NAILSMA considers itself a Relevant Person under the OPGGS Act and noted that this would be discussed with the NAILSMA Chair and Board.	N/A - correspondence sent by INPEX	
		20/07/2023	NA	Email	NA	INPEX advised purpose of upcoming meeting is to understand whether NAILSMA considers itself a Relevant Person for EP consultation. The EP will be submitted to NOPSEMA in late July 2023 and the opportunity to engage and provide feedback remains open. INPEX provided update on upcoming community consultation sessions in the NT.	N/A - correspondence sent by INPEX	
		28/07/2023	NA	In person meeting	NA	During meeting NAILSMA representative advised they did not consider NAILSMA to be a relevant person and did not require any additional information. Discussed ongoing role in INPEX supporting NAILSMA to achieve their objectives.	General correspondence	

		28/07/2023	NA	Email	NA	INPEX followed up meeting earlier that day to confirm discussion points: - NAILSMA did not consider themselves to be a relevant person and did not require further information. - NAILSMA will be contacted for consultation for future activities / EPs where there are areas of potential impact - ongoing contact regarding matters where INPEX can support NAILSMA in meeting NAILSMA objectives	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	Consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3).	NA	
Northern Territory	Northern Land Council	22/12/2022	NA	Letter	Letter CO050-IPX-LND-LE-70000	INPEX requests opportunity to discuss proposed offshore activities and EPs, and the INPEX consultation program with coastal Aboriginal Communities between the WA/NT border and Coburg Peninsula.	N/A - correspondence sent by INPEX	
		6/01/2023	NA	Phone Call	NA	Follow up to letter previously sent in December.	General correspondence	
		9/01/2023	NA	Email	NA	INPEX emails NLC to arrange a meeting to discuss upcoming consultation, as per previous correspondence.	N/A - correspondence sent by INPEX	
		NA	10/01/2023	Email	NA	NLC responds to INPEX, informing them that they will check their availability for a meeting and reply.	General correspondence	
		10/01/2023	NA	Email	NA	INPEX acknowledges receipt and pending NLC availability for a meeting.	N/A - correspondence sent by INPEX	
		NA	12/01/2023	Email	NA	Meeting scheduling arrangements.	General correspondence	
		12/01/2023	NA	Email	NA	Meeting scheduling arrangements.	N/A - correspondence sent by INPEX	
		17/01/2023	NA	In person meeting	Meeting minutes EP summary website	INPEX and NLC meet in-person to discuss the EPs, proposed offshore activities and the consultation process proposed by INPEX with Aboriginal Communities and people who are represented by NLC. INPEX shared QR Code links to EP Summary website.	General correspondence	
		23/02/2023	NA	In person meeting	Meeting minutes	Meeting to continue discussions from January on proposed consultation process.	General correspondence	
		27/02/2023	NA	Phone Call	NA	Video-call to continue discussions on best approach for engagement with Aboriginal Communities and people represented by NLC.	N/A - correspondence sent by INPEX	
		10/03/2023	NA	Phone Call	Summary notes of phone call.	Discussion of next steps in the consultation process and planning.	N/A - correspondence sent by INPEX	
		15/03/2023	NA	Phone Call	Summary notes of phone call.	Discussion of next steps in the consultation process and planning, INPEX requests opportunity to meet again to further discuss the upcoming consultation.	N/A - correspondence sent by INPEX	
		22/03/2023	NA	Letter	Letter C050-IPX-LND-LE-70001	INPEX provides advice about its proposed approach to relevant persons engagement, based on the previous communications between INPEX and NLC, and the subsequent further design of consultation work. INPEX provides NLC with an engagement plan and seeks NLC's support in conducting the planned consultation.	N/A - correspondence sent by INPEX	
		NA	22/03/2023	Email	NA	NLC acknowledged receipt of letter and advised a response will be provided in due course.	General correspondence	
		27/03/2023	NA	Email	NA	INPEX advised NLC they would be in Darwin this week and available to meet about EP consultation plans.	N/A - correspondence sent by INPEX	
		28/03/2023	NA	Phone Call	NA	Phone call to follow up email sent previous day.	N/A - correspondence sent by INPEX	
		29/03/2023	NA	Phone Call	NA	Follow up to March letter. INPEX advises they are currently in Darwin and working on further details to the engagement program.	General correspondence	
		6/04/2023	NA	Email	NT Aboriginal Communities Engagement Plan	INPEX emails NLC with a draft engagement plan and proposed schedule on when consultation might take place within relevant communities.	N/A - correspondence sent by INPEX	
		NA	11/04/2023	Email	NA	NLC advised that they could provide comment as a Relevant Person in its own right with limited response on behalf of the relevant Land Trusts and the caveat that they are not in a position to discuss the information with traditional owners/Native Title holders. They requested further information on the proposed offshore activities. NLC also advised that they do not have the capacity to assist with regional consultations as proposed in Q2 2023. They may be able to assist with meetings in the second half of this year (Q3/Q4).	Relevant matter - relevant person has provided or requested information relevant to the activity and/ or their functions, interest or activities.	Following the initial meetings, INPEX developed an NT Aboriginal Communities Engagement Plan which has been shared with the NLC for feedback. As requested, further information in an EP Background Note was provided to the NLC detailing INPEX's proposed offshore activities. NLC are supportive of INPEX undertaking its regional engagement program on the basis that the NLC is kept informed. No changes have been made to the EP as a result of this feedback from the NLC.
		14/04/2023	NA	Email	NLC EP Background note - Exploration	INPEX responded that they understand the NLC's position and sent further information for their comment as Relevant Persons. INPEX noted its plan to submit the EPs in late April/early May noting that the opportunity to engage and provide feedback remains open after the submission. INPEX informed that it will keep NLC informed of its regional consultation program planning, sought ongoing support from NLC and that it wished to maintain ongoing dialogue with the NLC.	N/A - correspondence sent by INPEX	
		21/04/2023	NA	In person meeting	Meeting minutes	INPEX met with NLC GM / Principal Legal Officer. Summary of meeting: - NLC expressed concern in relation to resourcing - NLC are seeking new positions to support their organisation - NLC are supportive of INPEX carrying out its regional consultation program and to be kept informed on a regular basis. - INPEX advised it will not enter into NTA / ALRA agreements.	Not a relevant matter	
		25/05/2023	NA	Email	NA	INPEX provided an update on consultation progress with various NT stakeholders. INPEX requested contact details for groups where contact details are needed. INPEX noted that Aboriginal Land Permits may be needed and NLC will be contacted if this is necessary. INPEX reiterated that they are looking forward to receiving comments from NLC as a relevant person in their own right and would be pleased to brief NLC board at a convenient time. INPEX outlined focus on long term engagement framework with option of annual briefings and targeting consultations depending on scopes.	N/A - correspondence sent by INPEX	

		NA	26/05/2023	Email	NA	NLC thanked INPEX for update and advised they would speak with CEO about assistance that can be provided, noting privacy obligations. NLC advised window of dates where an in person meeting could be scheduled.	General correspondence	
		26/05/2023	NA	Email	NA	Meeting scheduling arrangements.	N/A - correspondence sent by INPEX	
		30/05/2023	NA	Email	NA	INPEX advised that they met with Victoria Daly Regional Council yesterday. While in Katherine, an INPEX consultant made an introduction to an NLC staffer in the NLC Katherine Regional Office and had a general discussion about approach to EP consultation.	N/A - correspondence sent by INPEX	
		14/06/2023	NA	In person meeting	Project activity maps C090-DH-MAP-11236_0 C090-DH-MAP-11237_0	Meeting between INPEX and NLC representatives in NLC Darwin office. INPEX provided update on progress of regional consultation to date, including listing of all meetings held (virtually and in person). INPEX requested a formal response to the INPEX letter sent in March 2023 which NLC agreed to do. Activities and maps of proposed activities were shared with NLC personnel.	General correspondence	
		20/07/2023	NA	In person meeting	NA	Meeting between INPEX and NLC representatives in Darwin; discussed: - summit and follow up actions - NLC as relevant person in own right (NLC to respond) - INPEX's on country consultation program and use of NLC Ranger program for distribution of information (NLC happy to assist)	Not a relevant matter	
		20/07/2023	NA	Email	NA	INPEX thanked NLC for their time earlier in the day. As per discussion, INPEX would value understanding whether NLC has formed a view on whether it considers itself a relevant person for the purposes of EP consultation.	N/A - correspondence sent by INPEX	
		21/07/2023	NA	Email	INPEX EP Consultation Notice #1	INPEX thanked NLC for meeting previous day and asked that the attached notice be distributed through its Ranger network in a variety of locations. Consultation sessions are to be held in August and September and dates will be confirmed shortly. Regional Councils will also be asked to assist with distribution of the notice.	N/A - correspondence sent by INPEX	
		NA	21/07/2023	Email	NA	In follow up to meeting earlier in week NLC advised: - they have not discussed the proposed activities with any Traditional Owners or native title holders - as relevant person in own right: a. NLC must be notified of any emergency event that has potential impact to NT coastline, and given opportunity to provide comment on remediation to extent that is practical b. process must be developed to notify Traditional Owners and native title holders of any emergency event that has potential impact to NT coastline, and given opportunity to provide comment on remediation to extent that is practical c. INPEX to consider role of rangers in top end of NT to assist with spill / emergency response.	Relevant matter - relevant person has provided or requested information relevant to the activity and/ or their functions, interest or activities.	INPEX's BROPEP, Table 2-4 - External notifications matrix has been updated to include the NLC. INPEX will provide a courtesy notification to the NLC; however, any formal notifications would be issued by the relevant state or territory control agency. The BROPEP also confirms the notification would be made where spill modelling indicates potential for the spill to enter State or Territory waters adjacent to the NLC's area of interest within the next 48 hours (unless notifications have already been made by the State or Territory control agency).
		24/07/2023	NA	Phone Call	NA	Phone contact with NLC Ranger Branch Manager to discuss coordinating consultation with the NLC ranger groups.	General correspondence	
		26/07/2023	NA	Email	NA	Email to NLC Ranger Branch Manager regarding upcoming ranger group consultation.	N/A - correspondence sent by INPEX	
		NA	31/07/2023	Email	NA	NLC Ranger Branch Manager provided introduction to other NLC representatives for purposes of coordinating community consultation sessions.	General correspondence	
		31/07/2023	NA	Email	EP summary website	INPEX provided update on date options for consultation sessions for rangers and links for EP summary websites to be shared.	N/A - correspondence sent by INPEX	
		31/07/2023	NA	Email	National Plan response Assessment Termination of Cleaning for Oil Contaminated Foreshores	In response to NLC email dated 21/7/23, INPEX provided the following response: - acknowledged the NLC advice that it has not consulted proposals with Traditional Owners or native title holders and is not responding on behalf of any land trust - acknowledged that the NLC is a relevant person in its own right - as per relevant EPs, assessment of oil spill occurring is highly unlikely In response to matters a, b and c raised: a. INPEX confirmed that in the event of a spill the control agency and decision maker is Territory Emergency Management Council (TEMC) in a process defined under the National Plan (Table 1 Agreed Environmental Values and Acceptable Levels of Cleanliness). b. As per the above TEMC roles/responsibilities a process already exists within the National Plan for notification of Traditional Owners and native title holders, as appropriate. c. INPEX agrees that ranger groups could assist with notifications and remediation activities in the event an incident has the potential to impact any of the coastal environments in the NT; however, the responsibility of notifying and engaging ranger groups in relation to these activities resides with the TEMC in the first instance. INPEX is committed to maintaining an ongoing two-way relationship with the NLC focused on future opportunities to work together.	N/A - correspondence sent by INPEX	
		12/09/2023	NA	Email	NA	INPEX provided NLC with update on relevant persons consultation with various groups, including rangers, in the Northern Territory. (refer to Saltwater people in Northern Territory between Cox Peninsula and Western Australian / Northern Territory border section of this log)	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	Consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3).		
Northern Territory	Thamarrurr Development Corporation	30/03/2023	NA	Letter	Letter C050-IPX-----LE-70027	Request to meet with TDC to discuss proposed offshore activities and EPs.	N/A - correspondence sent by INPEX	
		12/04/2023	NA	Phone Call	NA	INPEX attempted to call TDC, but was unable to get through.	N/A - correspondence sent by INPEX	
		20/04/2023	NA	Email	NA	Follow up to previous correspondence.	NA	
		NA	21/04/2023	Email	NA	TDC advised that CEO was away on extended leave, returning in a fortnight. A meeting could be arranged on their return. In the interim, TDC cc'ed the Ranger Manager who may be able to assist.	General correspondence	
		21/04/2023	NA	Email	NA	INPEX suggested a phone meeting with Ranger Manager to provide background and requested meeting with CEO to be set up once CEO back in office.	N/A - correspondence sent by INPEX	

27/04/2023	NA	Email	NA	INPEX advises TDC that they will be in Darwin next week and available to meet with CEO if available.	N/A - correspondence sent by INPEX	
NA	2/05/2023	Email	NA	TDC advises CEO not available this week. TDC CEO or senior manager could attend a Local Authority meeting in Wadeye. INPEXs letter will be provided to CEO once returned from leave.	General correspondence	
2/05/2023	NA	Email	NA	INPEX indicated willingness to speak with CEO when available and provided update on Wadeye meeting scheduling.	N/A - correspondence sent by INPEX	
NA	2/05/2023	Email	NA	TDC acknowledged receipt of INPEX email.	General correspondence	
15/05/2023	NA	Email	NA	INPEX advised TDC representative that INPEX had recently met with West Daly Regional Council regarding provision of briefing to Wadeye Local Authority. INPEX advised of upcoming availability to meet in Darwin with TDC CEO.	N/A - correspondence sent by INPEX	
8/06/2023	NA	Email	NA	INPEX advised of upcoming availability to meet in person either in Wadeye or in Darwin.	N/A - correspondence sent by INPEX	
NA	8/06/2023	Email	NA	TDC CEO advised of availability to meet in Darwin the following week.	General correspondence	
8/06/2023	NA	Email	NA	INPEX confirmed availability to meet CEO in Darwin as suggested by TDC.	N/A - correspondence sent by INPEX	
NA	15/06/2023	Email	NA	TDC advised they will be in touch ASAP once the relevant GM has been briefed.	General correspondence	
23/06/2023	NA	Email	NA	INPEX asked whether TDC would be available to meet in Darwin during week of 3 July.	N/A - correspondence sent by INPEX	
23/06/2023	NA	Email	NA	INPEX emailed alternative contact at TDC regarding meeting options.	N/A - correspondence sent by INPEX	
20/07/2023	NA	Email	EP summary website	INPEX followed up previous communications and advised of an upcoming meeting at Wadeye that INPEX hopes the TDC can attend. INPEX advised the EP will be submitted to NOPSEMA in late July 2023 and the opportunity to engage and provide feedback remains open. INPEX provided update on upcoming community consultations in Wadeye. An INPEX representative will be in touch regarding logistics and planning. INPEX looks forward to discussion long term approach to engagement at the upcoming meeting.	N/A - correspondence sent by INPEX	
20/07/2023	NA	Email	EP summary website	Out of office reply received; email sent on 20th July forwarded as per out of office instructions.	N/A - correspondence sent by INPEX	
2/08/2023	NA	Phone call, email	INPEX EP Consultation Notice #1	INPEX provided update on upcoming community consultations in Wadeye. INPEX advised they are in contact with West Daly Regional Council regarding the consultation, and have requested if it would be possible to have one or two people from TDC sit in on the consultation. In any event, INPEX is still keen to meet with TDC and Thamarurr rangers as per previous correspondence. INPEX sought recommendations from TDC for venues, catering and accommodation. A community consultation notice was provided for posting on TDC social media, if appropriate. INPEX is available on phone and to meet in person next week as required.	N/A - correspondence sent by INPEX	
NA	3/08/2023	Email	NA	Meeting scheduling and logistics arrangements.	General correspondence	
3/08/2023	NA	Email	NA	Meeting scheduling and logistics arrangements.	N/A - correspondence sent by INPEX	
3/08/2023	NA	Email	INPEX EP Consultation Notice #1	Copy of INPEX EP Consultation Notice #1 provided to TDC Broadcasting for posting to their networks.	N/A - correspondence sent by INPEX	
11/08/2023	NA	In person meeting (online)	PowerPoint presentation for Thamarurr Development Corporation	MS Teams meeting with TDC CEO to discuss proposed offshore activities and consultation program. TDC CEO advised they had previously reviewed the EP material via link to EP summary website. INPEX discussed desire to co-design future consultation processes with TDC in context of consultation fatigue and burden. INPEX advised of upcoming availability in Wadeye to meet in person. TDC CEO advised it would be important to talk to a senior TO who was establishing an oyster farm at Docherty Island. Note: INPEX followed up with this person at a consultation meeting in Wadeye (see meeting with 'Saltwater people in Northern Territory between Cox Peninsula and Western Australian / Northern Territory border' on 19/9/23).	Relevant matter - relevant person has provided or requested information relevant to the activity and/ or their functions, interest or activities.	No changes were made to the EP as a direct result of this feedback, noting that further consultation session raised relevant matters that have resulted in changes to the EP.
16/08/2023	NA	In person meeting	NA	In person meeting in Wadeye with TDC Board member who is also a councillor of Wadeye Local Authority. INPEX provided overview of proposed activities and requirement to consult. Participant advised that they and the rest of the TDC Board had been briefed the previous week by TDC CEO. Participant indicated they would encourage people in the community to attend the scheduled INPEX consultation sessions. No relevant matters or requests for further information were raised during the meeting.	General correspondence	
18/08/2023	NA	In person meeting	PowerPoint presentation for Thamarurr Development Corporation	INPEX met with Thamarurr Rangers Coordinator and provided overview of proposed activities. Rangers are working with another titleholder on oil spill response training. Participant noted that turtle nesting and foraging takes place throughout the coastline in the INPEX maps but that (in the context of INPEX EPs) the risk of hydrocarbon spill of getting to the coast was minimal to non-existent. Participant mentioned the oyster farm that was establishing at Docherty Island. Note: INPEX followed up with this person at a consultation meeting in Wadeye (see meeting with 'Saltwater people in Northern Territory between Cox Peninsula and Western Australian / Northern Territory border' on 19/9/23).	Relevant matter - relevant person has provided or requested information relevant to the activity and/ or their functions, interest or activities.	The EP (Section 4.9.4 <i>Marine turtles</i> ) has been updated to reflect the feedback received regarding turtle nesting occurs along the coastline.
18/09/2023	NA	Email	20230908 EP Consultation Notice #4 Wadeye	Copy of Consultation Notice for upcoming meetings in Wadeye provided to TDC representative for posting on TDC Facebook page. (Note: Confirmation of distribution of Consultation notice received)	N/A - correspondence sent by INPEX	

		NA	NA	NA	NA	Consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3).	NA	
Northern Territory	Larrakia Development Corporation (LDC)	3/01/2023	NA	Phone Call	NA	INPEX phoned LDC, but is unable to get through.	N/A - correspondence sent by INPEX	
		10/01/2023	NA	Phone Call	NA	INPEX and LDC discuss meeting; date proposed for 18 January.	N/A - correspondence sent by INPEX	
		18/01/2023	NA	In person meeting	NA	INPEX and LDC meet to discuss consultation for the proposed offshore activities. INPEX provides LDC with an overview of the EPs and proposed activities. Conversation to continue in collaboration with LDC and LNAC, on how to best engage the Larrakia people.	General correspondence	
		20/04/2023	NA	Email	NA	INPEX advised LDC of planned briefing sessions in Darwin in May and asked if LDC could promote via their communication channels.	N/A - correspondence sent by INPEX	
		21/04/2023	NA	Email	Social media post content	INPEX provided LDC the Larrakia family briefing session dates and times for LDC to share on social media.	N/A - correspondence sent by INPEX	
		4/05/2023	NA	In person meeting	EP Summary website	Information session for Larrakia families to attend. EP summary website used to provide overview of activities and prompt conversation. No relevant matters were raised and no additional information was requested.	General correspondence	
		8/05/2023	NA	Email	EP Summary website	INPEX thanked information session attendees for their time, provided EP summary website links, welcomed feedback and suggestions.	N/A - correspondence sent by INPEX	
		14/07/2023	NA	Email	NA	INPEX thanked LDC for working with INPEX on EP consultation with Larrakia people. INPEX considers that sufficient information has been provided and advised that EP would be submitted at end of July. The opportunity to provide feedback remains open and INPEX will be in contact with LDC as part of long term approach to engagement.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	Consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3).	NA	
Northern Territory	Larrakia Nation Aboriginal Corporation (LNAC)	3/01/2023 - 6/02/2023	NA	Phone Call	NA	INPEX phone calls placed to LNAC.	N/A - correspondence sent by INPEX	
		23/03/2023	NA	Email	NA	INPEX requests a meeting to discuss the proposed offshore activities and EPs, and to seek guidance on engaging with Larrakia people. INPEX proposed meeting times in Darwin.	N/A - correspondence sent by INPEX	
		27/03/2023	NA	Email	NA	Meeting scheduling arrangements.	N/A - correspondence sent by INPEX	
		NA	29/03/2023	Email	NA	Meeting scheduling arrangements.	General correspondence	
		29/03/2023	NA	Email	NA	Meeting scheduling arrangements.	N/A - correspondence sent by INPEX	
		NA	29/03/2023	Email	NA	Meeting scheduling arrangements.	General correspondence	
		1/04/2023	NA	In person meeting	Larrakia Nation Aboriginal Corporation - EP Consultation presentation, including website QR codes	INPEX delivers a presentation on the proposed offshore activities, discussed EP summary websites and planned briefing sessions for Larrakia people in May.	N/A - correspondence sent by INPEX	
		5/04/2023	NA	Email	Larrakia Nation Aboriginal Corporation - EP Consultation presentation EP summary websites	INPEX provides copy of the meeting presentation and links to EP summary websites. INPEX confirms content will be provided for use on LNAC social media channels for upcoming meetings. INPEX confirms that they will provide further details on upcoming briefing once finalised.	N/A - correspondence sent by INPEX	
		5/04/2023	NA	Email	Link to INPEX Facebook and LinkedIn pages	INPEX sends links to social media posts relating to EP consultation.	N/A - correspondence sent by INPEX	
		19/04/2023 - 21/04/2023	NA	Email	Social media post content	Multiple emails between INPEX and LNAC to finalise content and coordinate social media posts regarding INPEX EP consultation.	General correspondence	
		4/05/2023	NA	In person meeting	EP Summary website	Information session for Larrakia families to attend. EP summary website used to provide overview of activities and prompt conversation. No relevant matters were raised and no additional information was requested.	General correspondence	
		8/05/2023	NA	Email	NA	INPEX thanked information session attendees for their time, provided EP summary website links, welcomed feedback and suggestions.	N/A - correspondence sent by INPEX	
		14/07/2023	NA	Email	NA	INPEX thanked LNAC for working with INPEX on EP consultation with Larrakia people. INPEX considers that sufficient information has been provided and advised that EP would be submitted at end of July. The opportunity to provide feedback remains open and INPEX will be in contact with LNAC as part of long term approach to engagement.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	Consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3).	NA	

Northern Territory	Saltwater people in Northern Territory between Cox Peninsula and Western Australian / Northern Territory border	<p>Throughout 2023, INPEX has engaged with the NLC to devise a consultation strategy with NT Traditional Owners identified as relevant persons. Refer to NLC section of this log.</p> <p>During this time, INPEX has provided access to sufficient information via newspaper advertisements with EP website QR codes and links (NT News and The Australian on 24/2/23 and 28/6/23), radio advertisements (8TEA – Top End Aboriginal Bush Broadcasting Association between 3 - 16 July) and geo-targeted social media advertisements (July 2023) to enable people in these communities to nominate as relevant persons if they wish.</p> <p>A component of the strategy, an on-country consultation program, was carried out during August and September 2023 between Cox Peninsula and Western Australian / Northern Territory border which included the following areas:</p> <ul style="list-style-type: none"> <li>- Daly River / Port Keats Aboriginal Land Trust</li> <li>- Delissaville / Wagait / Larrakia Aboriginal Land Trust</li> <li>- Kenbi Aboriginal Land Trust</li> <li>- Traditional owners of Bradshaw Field Training Area – Jaminjung, Ngaliwuru</li> <li>- Traditional owners of Spirit Hill Station and Legune Station – Gajerrong</li> </ul> <p>Refer to On Country Consultation Program overview included in the Sensitive Matters Report (SMR). Digital and hard copies of the EP Community Consultation Book for Saltwater People were used as supporting material during each session (one copy provided in the SMR, rather than duplicating records for each of the meetings held).</p> <p>Where sessions were attended by people solely associated with a specific Land Trust or geographical area they have been recorded in that Land Trust or geographical area section below, and records captured in corresponding sections of the SMR.</p> <p>For a variety of reasons, there were instances where multiple clans attended meetings that were associated with various Land Trusts and geographical areas. To avoid duplication of records where this has occurred, these sessions have been captured in this section and the 'Saltwater people in Northern Territory between Cox Peninsula and Western Australian / Northern Territory border' section of the SMR.</p>						
		13/09/2023	NA	In person meeting	EP Community Consultation Book for Saltwater People	<p>Belyuen Group Environment Plan Consultation held in Belyuen, attended by representatives of the following clans:</p> <ul style="list-style-type: none"> <li>Maranunggu (Black Eagle) - Delissaville / Wagait / Larakia ALT</li> <li>Marrithiyel - Daly River Port Keats ALT</li> <li>Wadjiginy - Delissaville / Wagait / Larakia ALT</li> <li>Menthayanggal - Kenbi ALT</li> <li>Amiyanggal - Kenbi ALT</li> </ul> <p>INPEX provided an overview of proposed offshore activities and described the risks, potential impacts and controls for each of the proposed activities. INPEX answered a question about planning for long term monitoring of impacts in the event of a spill and described the types of programs within the Operational and Scientific monitoring program. INPEX asked the attendees if there was anyone else they thought INPEX should contact or speak to. No further contacts were provided. Attendees confirmed they had understood the information discussed, had no concerns about potential impacts, had no further questions and advised that they did not need any further information.</p>	General correspondence	
		19/09/2023	NA	In person meeting	EP Community Consultation Book for Saltwater People	<p>Consultation session held in Wadeye, attended by representatives of the following clans:</p> <ul style="list-style-type: none"> <li>Marrtijaben - Kenbi ALT</li> <li>Rak Kimmu - Daly River Port Keats ALT</li> <li>Gajerrong Language Group</li> </ul> <p>The oyster farmer on Docherty Island identified during consultation with Thamurrurr Development Corporation was present at this meeting. INPEX provided overview of proposed activities using community booklet containing maps and project information. Participants discussed the importance of sea country to their people, connection to country and protection of the environment. Participant suggested for future consultation that INPEX consider engaging an interpreter. INPEX asked the attendees if there was anyone else they thought INPEX should contact or speak to. No further contacts were provided. Participants advised they understood the information provided, had no concerns about potential impacts, had no further questions and did not request any additional information.</p>	Relevant matter - relevant person has provided or requested information relevant to the activity and/ or their functions, interest or activities.	No changes were made to the EP as a direct result of this feedback, noting that the EP has been updated in previous revisions to include a new Section on Aboriginal Cultural Heritage (Section 4.11.5) which includes a description of the importance of sea country and connectedness to country for Aboriginal peoples. Section 4.12.2 of the EP was updated to reflect the black lip oyster farming on the fringes of Docherty Island.
		20/09/2023	NA	In person meeting	EP Community Consultation Book for Saltwater People	<p>Consultation session held in Kununurra, attended by Gajerrong (Legune Station) and Ngaliwuru/Jaminjung representatives. INPEX provided overview of proposed activities using community booklet containing maps and project information. INPEX asked the attendees if there was anyone else they thought INPEX should contact or speak to. No further contacts were provided. Participants advised they understood the information provided, had no concerns about potential impacts, had no further questions and did not request any additional information. No relevant matters were raised.</p>		
		NA	NA	NA	NA	<p>Consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3).</p>	NA	
Northern Territory	<p>Daly River / Port Keats Aboriginal Land Trust</p> <p>For additional meetings that included members of this land trust, refer to above section titled 'Saltwater people in Northern Territory between Cox Peninsula and Western Australian / Northern Territory border', meeting dates 13/9/23 and 19/9/23.</p>	24/02/2023	NA	Various	Website links and QR codes Advertising materials - refer to Appendix B4	<p>Throughout 2023, INPEX has engaged with the NLC to devise a consultation strategy with NT Traditional Owners identified as relevant persons. Refer to NLC section of this log.</p> <p>During this time, INPEX has provided access to sufficient information via newspaper advertisements with EP website QR codes and links (NT News and The Australian on 24/2/23 and 28/6/23), radio advertisements (8TEA – Top End Aboriginal Bush Broadcasting Association between 3 - 16 July) and geo-targeted social media advertisements (July 2023) to enable people in these communities to nominate as relevant persons if they wish.</p> <p>INPEX progressed with in-person meetings during August and September 2023.</p>	NA	
		17/08/2023	NA	In person meeting	EP Community Consultation Book for Saltwater People	<p>INPEX met with members of the Yek Nangu and Yek Maninh clans of the Daly River / Port Keats Aboriginal Land Trust in Wadeye, provided overview of proposed activities using community booklet containing maps and project information. Participants advised that they understood the information that was presented and when asked, voiced no concerns about INPEX's offshore activities, saying that they did not believe that their functions, interests and activities, as they relate to sea country, would be affected. They did not ask for any further or additional information. Participants noted that marine turtles nesting on coast and associated islands were not shown on maps provided by INPEX. Participants advised INPEX it was important to consult with the clans further north. When asked about clans further south that INPEX should consult with, names and contact details were provided to INPEX.</p>	Relevant matter - relevant person has provided or requested information relevant to the activity and/ or their functions, interest or activities.	The EP (Section 4.9.4 Marine turtles) has been updated to reflect the feedback received regarding turtle nesting occurs along the coastline.
		18/08/2023	NA	In person meeting	EP Community Consultation Book for Saltwater People	<p>INPEX met with members of the Marriamu and Marrtijaben clans of the Daly River / Port Keats Aboriginal Land Trust in Wadeye, provided overview of proposed activities using community booklet containing maps and project information. Participants advised they understood the information provided and requested a further meeting to follow up and to make sure other clan members had opportunity to be informed. No relevant matters were raised and participants did not request any additional information. A date for the next meeting was discussed.</p>	General correspondence	

		19/09/2023	NA	In person meeting	EP Community Consultation Book for Saltwater People	INPEX met with members of the Yek Dimininh (Kardu Thithay Diminin) clan of the Daly River / Port Keats Aboriginal Land Trust in Wadeye, provided overview of proposed activities using community booklet containing maps and project information. Participant indicated it would be useful for INPEX to continue to have broad conversations about activities in the area to build shared knowledge and understanding. INPEX asked the attendees if there was anyone else they thought INPEX should contact or speak to. No further contacts were provided. Participants advised they understood the information provided, had no concerns about potential impacts, had no further questions and did not request any additional information. No relevant matters were raised.	General correspondence	
		19/09/2023	NA	In person meeting	EP Community Consultation Book for Saltwater People	INPEX met with members of the Kardu Kura Thipmam clan of the Daly River / Port Keats Aboriginal Land Trust in Wadeye, provided overview of proposed activities using community booklet containing maps and project information. INPEX asked the attendees if there was anyone else they thought INPEX should contact or speak to. No further contacts were provided. Participants advised they understood the information provided, had no concerns about potential impacts, had no further questions and did not request any additional information. No relevant matters were raised.	General correspondence	
		NA	NA	NA	NA	Consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3).	NA	
Northern Territory	Delissaville / Wagait / Larrakia Aboriginal Land Trust  For additional meetings that included members of this land trust, refer to above section titled 'Saltwater people in Northern Territory between Cox Peninsula and Western Australian / Northern Territory border', meeting date 13/9/23.	24/02/2023	NA	Various	Website links and QR codes Advertising materials - refer to Appendix B4	Throughout 2023, INPEX has engaged with the NLC to devise a consultation strategy with NT Traditional Owners identified as relevant persons. Refer to NLC section of this log.  During this time, INPEX has provided access to sufficient information via newspaper advertisements with EP website QR codes and links (NT News and The Australian on 24/2/23 and 28/6/23), radio advertisements (8TEA – Top End Aboriginal Bush Broadcasting Association between 3 - 16 July) and geo-targeted social media advertisements (July 2023) to enable people in these communities to nominate as relevant persons if they wish.  INPEX progressed with in-person meetings during August and September 2023.	NA	
		31/07/2023	NA	Email	EP summary webpage	INPEX provided update on date options for consultation sessions for rangers (including Bulgul Rangers) and links for EP summary websites to be shared.	N/A - correspondence sent by INPEX	
		8/8/23 - 14/8/23	NA	Various	NA	Several efforts to contact Bulgul Ranger representatives for the purposes of providing information and arranging an in-person briefing.	N/A - correspondence sent by INPEX	
		15/08/2023	NA	In person meeting	EP Community Consultation Book for Saltwater People	INPEX met with Mak Mak Maranunggu people from the White Eagle clan in Palmerston and provided overview of proposed activities. Participants did not ask for any further specific information regarding INPEX's offshore activities or the current EPs. No relevant matters raised or new information provided. Participants did request some time to think about the information provided by INPEX and asked for another meeting to provide follow up questions. Participants provided a focal contact point for future communications.	Not a relevant matter	
		7/9/23 - 20/9/23	NA	Various	NA	During meeting on 15/8/23, a request was made by a participant for another meeting to provide follow up questions. INPEX has spoken with the participant three times following the meeting (7, 12 and 14 September), and then has left two additional phone messages (15 and 20 September). The participant has been advised there are processes in place to capture their feedback if they choose to give it at a later stage. INPEX notes that consultation is voluntary process and considers that reasonable attempts have been made by INPEX to arrange a meeting for follow up questions.	General correspondence	
		NA	NA	NA	NA	Consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3).	NA	
Northern Territory	Finniss River Land Trust	NA	NA	NA	NA	The Finniss River Aboriginal Land Trust is no longer considered relevant due to its inland location. Please refer to SMR for further detail.	NA	
Northern Territory	Kenbi Aboriginal Land Trust  For additional meetings that included members of this land trust, refer to above section titled 'Saltwater people in Northern Territory between Cox Peninsula and Western Australian / Northern Territory border', meeting dates 13/9/23 and 19/9/23.	NA	NA	NA	Website links and QR codes Advertising materials - refer to Appendix B4	Throughout 2023, INPEX has engaged with the NLC to devise a consultation strategy with NT Traditional Owners identified as relevant persons. Refer to NLC section of this log.  During this time, INPEX has provided access to sufficient information via newspaper advertisements with EP website QR codes and links (NT News and The Australian on 24/2/23 and 28/6/23), radio advertisements (8TEA – Top End Aboriginal Bush Broadcasting Association between 3 - 16 July) and geo-targeted social media advertisements (July 2023) to enable people in these communities to nominate as relevant persons if they wish.  INPEX progressed with in-person meetings during August and September 2023.	NA	
		10/08/2023	NA	In person meeting	EP Community Consultation Book for Saltwater People	INPEX met with representatives from Kenbi Rangers and senior Traditional Owners from the Cox Peninsula provided overview of proposed activities using community booklet containing maps and project information. Participants advised that the rangers, given their coastal activities, would be relevant persons and that the Traditional Owners and others with spiritual and cultural connections to the coast and the sea would be relevant persons. Participants raised all the sacred sites areas on the Cox Peninsula and their role in protecting the coastline and the various contract works they do for State and Commonwealth agencies. Discussed need to consult with the Kenbi Traditional Owners and how this might best be carried out.	Relevant matter - relevant person has provided or requested information relevant to the activity and/ or their functions, interest or activities.	Section 4.11.5 <i>Aboriginal sacred sites and other recognised heritage places</i> provides information regarding sacred sites within the PEZ.
		8/09/2023	NA	Email	20230908 EP Consultation Notice #3 Belyuen	Copy of Consultation Notice provided to Belyuen Community Government Council representative or posting on Facebook and local noticeboards in the Belyuen area. (Note: Confirmation of Facebook posts received)	N/A - correspondence sent by INPEX	



		12/09/2023	NA	Email	EP Community Consultation Book for Saltwater People	INPEX met with representatives from Kenbi Rangers and senior Traditional Owners from the Cox Peninsula in Mandorah, provided overview of proposed activities using community booklet containing maps and project information. Participants advised they understood the information provided, had no concerns about potential impacts, had no further questions and did not request any additional information. No relevant matters were raised.	General correspondence	
		14/09/2023	NA	In person meeting	NA	Consultation meeting in Belyuen was advertised; nil attendees.	N/A - correspondence sent by INPEX	
		15/09/2023	NA	In person meeting	NA	Consultation meeting in Belyuen was advertised; nil attendees.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	Consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3).	NA	
Northern Territory	Traditional owners of Bradshaw Field Training Area – Jaminjung, Ngaliwurru  For additional meetings that included members of this land trust, refer to above section titled 'Saltwater people in Northern Territory between Cox Peninsula and Western Australian / Northern Territory border', meeting date 20/9/23.	18/09/2023	NA	Email	20230908 EP Consultation Notice #6 Timber Creek	Copy of Consultation Notice provided to Victoria Daly Regional Council Operations Manager for posting on local noticeboards in the Timber Creek area. (Note: Confirmation of distribution of Consultation notice received)	N/A - correspondence sent by INPEX	
		22/09/2023	NA	In person meeting	EP Community Consultation Book for Saltwater People	INPEX met with Ngaliwurru and Jaminjung Traditional Owners in Timber Creek. INPEX provided overview of proposed activities using community booklet containing maps and project information. Participants advised they understood the information provided, had no concerns about potential impacts, had no further questions and did not request any additional information. INPEX asked the attendees if there was anyone else they thought INPEX should contact or speak to. No further contacts were provided. No relevant matters were raised.	General correspondence	
		NA	NA	NA	NA	Consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3).	NA	
Northern Territory	Traditional owners of Spirit Hill Station and Legune Station – Gajerrong  For additional meetings that included members of this land trust, refer to above section titled 'Saltwater people in Northern Territory between Cox Peninsula and Western Australian / Northern Territory border', meeting dates 19/9/23 and 20/9/23.	18/09/2023	NA	Email	20230908 EP Consultation Notice #6 Kununurra	Copy of Consultation Notice provided to NLC contact for posting in Kununurra.	N/A - correspondence sent by INPEX	
		18/09/2023	NA	Email	20230908 EP Consultation Notice #6 Kununurra	Copy of Consultation Notice provided to KGT Employment contact for posting in Kununurra. (Note: Confirmation of distribution of Consultation notice received)	N/A - correspondence sent by INPEX	
		20/09/2023	NA	In person meeting	EP Community Consultation Book for Saltwater People	INPEX met with Gajerrong Traditional Owners from Carlton Hill and Spirit Hill Stations in Kununurra. INPEX provided overview of proposed activities using community booklet containing maps and project information. Participants advised they understood the information provided, had no concerns about potential impacts, had no further questions and did not request any additional information. INPEX asked the attendees if there was anyone else they thought INPEX should contact or speak to. No further contacts were provided. No relevant matters were raised.	General correspondence	
		21/09/2023	NA	In person meeting	EP Community Consultation Book for Saltwater People	INPEX met with Gajerrong Traditional Owner in Kununurra. INPEX provided overview of proposed activities using community booklet containing maps and project information. Participant advised they understood the information provided, had no concerns about potential impacts, had no further questions and did not request any additional information. INPEX asked the attendees if there was anyone else they thought INPEX should contact or speak to. No further contacts were provided. No relevant matters were raised.	General correspondence	
		21/09/2023	NA	In person meeting	EP Community Consultation Book for Saltwater People	INPEX met with Gajerrong Traditional Owner in Kununurra. INPEX provided overview of proposed activities using community booklet containing maps and project information. Participant advised they understood the information provided, had no concerns about potential impacts, had no further questions and did not request any additional information. INPEX asked the attendees if there was anyone else they thought INPEX should contact or speak to. No further contacts were provided. No relevant matters were raised.	General correspondence	
		21/09/2023	NA	In person meeting	NA	Consultation meeting in Kununurra was advertised; nil attendees.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	Consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3).	NA	
Northern Territory	Gwalwa Daraniki Association Incorporated	13/04/2023	NA	Phone Call	NA	Phone call to arrange a meeting to discuss proposed offshore activities.	N/A - correspondence sent by INPEX	
		19/04/2023	NA	In person meeting	PowerPoint Presentation Meeting notes EP summary website	INPEX met with representatives from GDA to discuss INPEX's plans and the need for consultation. GDA indicated they had primary concerns with any activities relating to impacts on the marine environment and any impacts on the marine resources that they use, e.g., fish, shellfish etc., and mangrove habitat. INPEX advised a formal consultation letter would be sent and then would be followed up to see if GDA had any feedback and whether INPEX could present to GDA board at some point. INPEX provided and demonstrated the QR codes for the EP summary website during the meeting.	Relevant matter - relevant person has provided or requested information relevant to the activity and/ or their functions, interest or activities.	INPEX risk management practices were discussed in the meeting, confirmed they are designed to ensure that all impacts and risks are ALARP. Risk assessments in the EP do not predict any impact with coastal marine resources in GDAI's area of interest. No changes have been made to the EP as a result of the feedback from this relevant person.
		19/04/2023	NA	Email	NA	INPEX thanked GDA for meeting earlier that day. INPEX advised the EP will be lodged shortly and that the opportunity to engage and provide feedback continues.	N/A - correspondence sent by INPEX	
		3/05/2023	NA	Phone Call	NA	Phone message left with GDA to follow up meeting held in April.	N/A - correspondence sent by INPEX	
		17/05/2023	NA	Letter	C050-IPX-----LE-70030	INPEX understands GDA's concerns with proposed offshore activities relate to impacts on the marine environment and any impacts on the marine resources that members use, e.g., fish, shellfish and mangrove habitat. As discussed in meeting, INPEX risk management practices are designed to ensure that impacts are ALARP. Risk assessments in the EP do not predict any impact with coastal marine resources in GDAI's area of interest. Links included to EP websites and GDA are welcome to provide feedback at any time. INPEX considers that consultation with GDAI for the purposes of compliance with the Offshore Petroleum and Greenhouse Gas Storage (Environment) Regulations 2009 for the current activities has been completed.	N/A - correspondence sent by INPEX	

		NA	NA	NA	NA	Consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3).	NA	
Northern Territory	Woolna (Wulna) people	20/04/2023	NA	In person meeting	NA	Introductory meeting with representative for Wulna people and INPEX. Discussed: •Wulna country area covers Gunn Peninsula and goes to the east of where the Adelaide River runs into the Gulf. •There is a convergence of country at Gunn Peninsula with Tiwi and Larrakia. •There are three Wulna families (note: referred to here as Wulna family groups A, B and C). Next step to arrange dates for meetings with groups.	NA	
		20/04/2023	NA	Email	NA	INPEX thanked representative for catch up earlier that day. INPEX asked for suggestions of suitable dates for INPEX to host a meeting with Wulna family groups A and B, with a formal consultation letter request to follow.	N/A - correspondence sent by INPEX	
		3/05/2023	NA	Phone Call	NA	Phone message left for Wulna family group C representative.	N/A - correspondence sent by INPEX	
		3/05/2023	NA	Phone Call	NA	Phone message left to arrange meeting on 20 May for Wulna family groups A and B.	N/A - correspondence sent by INPEX	
		10/05/2023	NA	Letter	C050-IPX----LC-70029	Letter sent to representative advising of briefing session booked for Wulna family groups A and B to attend on 20 May in Darwin.	N/A - correspondence sent by INPEX	
		15/05/2023	NA	Email	NA	INPEX sought confirmation from representative of Wulna family groups A and B that meeting planned for 20 May was ok to proceed.	N/A - correspondence sent by INPEX	
		NA	15/05/2023	Email	NA	Representative confirmed that the meeting invitation had been sent to Wulna family groups A and B.	General correspondence	
		15/05/2023	NA	Email	NA	INPEX thanked representative of Wulna family groups A and B for confirmation that meeting invitation had been circulated.	N/A - correspondence sent by INPEX	
		15/05/2023	NA	Phone Call	NA	INPEX spoke with representative of Wulna family group C about arranging a catch up in Darwin during week of 29 May.	N/A - correspondence sent by INPEX	
		20/05/2023	NA	In person meeting	Meeting notes PowerPoint Presentation	INPEX EP information session for Wulna family groups A and B. Matters discussed included: - One previous well blow-out that occurred in Australian Waters - technical aspects of consultation (SME resourcing within Aboriginal Corporations) - longer term consultation via annual updates / meetings on planned activities - NOSPEMA requirement to publish relevant matters raised and consultation log (who we consulted, matters raised and how they are addressed by INPEX).	Not a relevant matter	
		22/05/2023	NA	Phone Call	NA	INPEX spoke with representative of Wulna family group C about arranging a catch up in Darwin early next week. Representative provided email address for INPEX to send information about EP consultation.	N/A - correspondence sent by INPEX	
		22/05/2023	NA	Email	NA	Follow up email to representative of Wulna family group C. INPEX provided background to need for consultation for EPs for offshore exploration activity. INPEX keen to meet in person to discuss INPEX's offshore interests and activities and its upcoming EPs.	N/A - correspondence sent by INPEX	
		29/05/2023	NA	Phone	NA	INPEX spoke with representative of Wulna family group C who advised was unable to meet as planned on 30/5/23 due to other meetings. Briefly discussed the matter, representative advised they would review the information that had been emailed and INPEX said they would follow up later in the week by phone.	N/A - correspondence sent by INPEX	
		7/06/2023	NA	Phone	NA	Phone call to representative of Wulna family group C; advised had not been able to look at information previously sent due to sorry business. INPEX advised they will be in Darwin soon and agreed to set up a meeting to discuss the EPs.	N/A - correspondence sent by INPEX	
		7/07/2023	NA	Email	C050-IPX----LE-70039 EP summary website	INPEX followed up previous consultation with representative of Wulna family group C with letter including links to EP summary website and maps. INPEX sought feedback on impacts to functions, activities or interests from proposed offshore activities and noted that if a response was not received then further consultation was not required.	N/A - correspondence sent by INPEX	
		21/07/2023	NA	Email	NA	INPEX followed up previous communications to Wulna family groups A and B. Advised that while the EP will be submitted to NOPSEMA in late July 2023 the opportunity to engage and provide feedback remains open. As part of sustainable and long term approach to engagement INPEX will keep Wulna people informed of ongoing program of offshore activities.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	Consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3).	NA	
Northern Territory	Tiwi Land Council	22/12/2022	NA	Email	Letter C050-IPX-D.V-LE-70000	Email with letter attached, requesting to meet with TLC to discuss how to best organise and consult with all Tiwi Islands clan groups regarding proposed INPEX EPs. INPEX advised they wish to co-design consultation process with TLC.	N/A - correspondence sent by INPEX	
		3/01/2023 - 1/02/2023	NA	Phone Call	NA	INPEX phone messages left for TLC.	N/A - correspondence sent by INPEX	
		24/02/2023	NA	Email	Letter C050-IPX----LE-70021, including attachment of previous letter C050-IPX-D.V- LE-70000	Followed up correspondence sent on 22/12/22 where INPEX sought to meet with TLC to discuss EP consultation. INPEX invited TLC to meet to discuss how best to consult with Tiwi people, including co-design of process. INPEX representatives will be in Darwin on 1 March 2023 and are available to meet TLC at their office.	N/A - correspondence sent by INPEX	
		24/02/2023	NA	Email	NA	INPEX emails an alternative contact at TLC to discuss consultation design for INPEX EPs.	N/A - correspondence sent by INPEX	
		14/03/2023	NA	Phone Call	NA	EP consultation discussion.	N/A - correspondence sent by INPEX	
		14/03/2023	NA	Email	NA	INPEX followed up phone call, sought to arrange an in-person meeting.	N/A - correspondence sent by INPEX	
		NA	15/03/2023	Email	NA	TLC notes INPEX request to meet. TLC confirms the correspondence is being looked at and escalated within the organization.	General correspondence	
		16/03/2023		Email	NA	INPEX notes confirmation of information received.	N/A - correspondence sent by INPEX	

NA	16/03/2023	Email	NA	TLC advises they would be in touch shortly to arrange for next steps.	General correspondence	
23/03/2023	NA	Email	NA	INPEX follows up previous correspondence, proposes potential meeting times and dates in Darwin.	N/A - correspondence sent by INPEX	
23/03/2023	NA	Email	NA	INPEX emails an alternative contact at TLC to discuss consultation design for INPEX EPs.	N/A - correspondence sent by INPEX	
NA	29/03/2023	Email	NA	Meeting scheduling arrangements.	General correspondence	
29/03/2023	NA	Email	NA	Meeting scheduling arrangements.	N/A - correspondence sent by INPEX	
31/03/2023	NA	In person meeting	Presentation to TLC, Meeting Minutes, Links to EP Summary pages	Meeting to discuss INPEX's environment plans and consultation with the Tiwi people. Agree to a briefing of TLC Executive Committee to take place on the Tiwi Islands on Friday 14 April to provide information with emphasis on the potential impacts of the proposed activities.	Relevant matter - relevant person has provided information relevant to the activity and/ or their functions, interest or activities.	INPEX provided a link to the EP summary website and arranged a future meeting with the TLC to get agreement on how best to approach a community consultation program with the TLC that is sensible and sustainable for all parties. No changes have been made to the EP as a result of the feedback from this relevant person.
5/04/2023	NA	Email	Links to EP Summary pages	Technical response to TLC in response to meeting on 31/3/23: INPEX confirmed TLC raised a particular interest in potential impacts to marine turtles given their significance to the Tiwi people. INPEX acknowledged TLC had a good understanding of the low likelihood of spill events occurring and that even in that unlikely event contact with the Tiwi Islands is not a given. INPEX confirmed that the Exploration Drilling EP does not include any planned or direct impacts to the Tiwi Islands. The Exploration Drilling program is proposed to occur approximately 850-900 km away from the Tiwi Islands. The only potential (highly unlikely) interaction with the Tiwi Islands is in relation to an unplanned (oil spill) event. If such an event did occur, under some weather conditions after 50 or more days it is possible oil residue may contact Tiwi beaches. INPEX understood that 285/343 EP was less of a concern to TLC.	N/A - correspondence sent by INPEX	
5/04/2023	NA	Email	Meeting minutes draft	INPEX thanked TLC representatives for meeting on 31/3/23 and provided draft meeting minutes for review and comment. INPEX thanked TLC for invitation to brief the TLC executive on 14/4/23 at Wurrumiyanga. INPEX advised a technical response to environmental matters discussed during meeting would be provided to TLC. INPEX would like to understand how the TLC would like to receive information from INPEX about offshore activities and to work with the TLC to co-design community engagement where this may be necessary.	N/A - correspondence sent by INPEX	
6/04/2023	NA	Phone Call	NA	TLC advised due to unforeseen circumstances, the meeting scheduled for 14 April would need to be postponed to a later date.	General correspondence	
18/04/2023	NA	Phone Call	NA	A meeting was confirmed between INPEX and TLC at Kalaluk offices for 19/4/23 in Darwin.	General correspondence	
NA	21/04/2023	Email	NA	TLC advised INPEX that an Executive Meeting would be held as soon as possible for INPEX to address executive members in Wurrumiyanga. TLC asked for dates suitable for INPEX.	General correspondence	
21/04/2023	NA	Email	NA	INPEX advised TLC that a date in early May would be suitable.	N/A - correspondence sent by INPEX	
NA	21/04/2023	Email	NA	TLC advised INPEX that a meeting would be scheduled on either 4/5/23 or 5/5/23 at Wurrumiyanga which allows the Executive at least five days' notice.	General correspondence	
27/04/2023	NA	Phone Call	NA	Phone call regarding meeting logistics for upcoming INPEX briefings.	N/A - correspondence sent by INPEX	
1/05/2023	NA	Email	NA	INPEX advises TLC Environmental Specialist and Anthropologist that INPEX Environment Team Lead will be in Darwin this week and is available to discuss any materials provided in technical response to TLC on 5/04/23.	N/A - correspondence sent by INPEX	
5/05/2023	NA	In person meeting	PowerPoint Presentation	Meeting attended by TLC representatives and Trustees of the Tiwi Land Council for the following clan groups; Jikilaru (Tikilaru), Wuranku (Ranku), Yimpinari, Wuliranku, Munupi, Mantiyupwi, Malawu, Mirrikawuyanga Discussion points after overview of proposed activities: - TLC advised due to distance from the Tiwi Islands, the 285 343 exploration area was out of their interest culturally. - TLC indicated that risk of well blow-out was low and if it happened it would be unlikely to reach the Tiwi Island in a way that would have any significant impact. - TLC advised that they would not need to make any further comment on the EP for this activity. - TLC were supportive of an annual briefing regarding future activities and further consultation requirements. - INPEX advised they intend to contact other Tiwi organisations now that dialogue with the TLC is progressing and sought advice from TLC whether there were any additional people/organisations that should be contacted by INPEX.	Not a relevant matter	
17/05/2023	NA	Email	PowerPoint Presentation (as above) Draft meeting minutes	Draft meeting minutes shared with TLC for their review and comment.	N/A - correspondence sent by INPEX	
2/06/2023	NA	Email	NA	INPEX advised TLC that INPEX has commenced contacting the Tiwi businesses and the Tiwi Island Regional Council. INPEX has also been in contact with TLC Environmental Specialist and Anthropologist regarding the information supplied (pertaining to CCS Seismic EP only) after the meeting to ensure it is aligned with what was discussed. INPEX thanked the Executive Committee for their time and knowledge. INPEX offered a phone call or Teams meeting to see if anything else was needed by the TLC.	N/A - correspondence sent by INPEX	
14/06/2023	NA	In person meeting	Meeting file note	Meeting in Darwin between INPEX and TLC representatives. INPEX asked TLC if there was any follow up that was required after the meeting on Tiwi Islands in May; TLC responded that impacts from seismic still remain a concern and asked INPEX to provide expert marine advice, with several potential names discussed. The week beginning 26 June or 3 July was agreed plan for the delivery of a presentation on INPEX's offshore activities covered by the current EPs, with specific reference to the effects on turtles and whales, from both drilling (Browse Basin Exploration Drilling EP) and seismic acquisition programs.	Relevant matter - relevant person has provided information relevant to the activity and/ or their functions, interest or activities.	This matter is a request for further information and no changes have been made to the EP as a result of the feedback from this relevant person.
NA	15/06/2023	Email	NA	TLC cc'ed INPEX on an email to an external consultant, requesting their assistance to coordinate a meeting between INPEX and AIMS marine expert to brief TLC on any potential impacts of seismic surveys on whales, turtles and dolphins.	General correspondence	

15/06/2023	NA	Email	NA	INPEX thanked TLC for introduction to external consultant earlier that day, advised of preference for presentation on 3rd July on Tiwi Islands	N/A - correspondence sent by INPEX	
NA	15/06/2023	Email	NA	External consultant sought background information from INPEX on consultation, proposals, work programs etc as they had not been involved in previous meetings.	General correspondence	
15/06/2023	NA	Email	NA	INPEX advised of availability to meet in person the following day, or on the phone the following week.	N/A - correspondence sent by INPEX	
NA	27/06/2023	Email	NA	TLC representative advised that marine expert proposed by INPEX to brief the TLC Executive Management Committee on impacts associated with seismic and drilling on marine fauna, whales, dolphins and turtles was not considered suitable. The TLC requested for an AIMS expert to be arranged for the meeting planned for 3rd July, or the meeting would be rescheduled.	General correspondence	
29/06/2023	NA	Email	NA	INPEX agreed to postponement of July 3rd meeting. INPEX provided information on sourcing marine expert. INPEX proposed to discuss further how best to proceed with the provision of independent expert advice to the TLC Executive Management Committee. INPEX considers that for the purposes of the OPGGS Regulations sufficient information has been provided to date in order to continue with intent to submit EPs in the near future. INPEX committed to providing funding for a third party marine scientist to work with the TLC to provide independent advice during the implementation of the activity.	N/A - correspondence sent by INPEX	
6/07/2023	NA	Email	EP summary webpage	INPEX provided TLC environmental representative with update on discussions with Darwin based third party marine scientist on their availability to provide independent advice on impacts associated with seismic and drilling on marine fauna, whales, dolphins, and turtles.	N/A - correspondence sent by INPEX	
NA	17/07/2023	Email	NA	TLC environmental representative advised that they had spoken with TLC CEO and they were happy for INPEX to engage the proposed Darwin based third party marine scientist as the marine expert.	General correspondence	
31/07/2023	NA	Email	NA	INPEX provided update: - Darwin based third party marine scientist is available to provide independent expert advice to the TLC Executive Management Committee on the impacts associated with seismic and drilling exploration programs on marine fauna, whales, dolphins and turtles. INPEX is working with TLC team to arrange a suitable time in August. - INPEX has received correspondence from EDO who indicates their client (Tiwi Traditional Owner #1) would like to meet INPEX and has requested that other Tiwi people attend along with the EDO. INPEX has nominated dates in August for the meeting and has advised EDO that INPEX will continue to engage with the TLC - as previously advised, INPEX is moving forward with submission of EPs to NOPSEMA in early August 2023.	N/A - correspondence sent by INPEX	
NA	2/08/2023	Email	NA	TLC representative advised that the planned INPEX and independent marine expert presentation to the TLC Management Committee will need to be cancelled due to a funeral.	General correspondence	
NA	2/08/2023	Email	NA	TLC advised that the dates proposed for the independent expert are not suitable. TLC referred to correspondence received from INPEX that stated: a) INPEX considers that for the purposes of the OPGGS Regulations sufficient information has been provided to date in order to continue with intent to submit EPs in the near future and INPEX remains committed to ongoing consultation with the TLC b) As previously advised, INPEX is moving forward with submission of its EPs to NOPSEMA in early August 2023 TLC considers that these statements show that INPEX does not intend to continue to consult with the TLC, and are indifferent to the TLCs input regarding potential impacts and risks of the proposed activities. TLC takes the view that INPEXs offer to have an independent expert present to the TLC is disingenuous as the EP would have been submitted to NOPSEMA by the time TLC input is considered. TLC does not consider that INPEX has met its obligations under the OPGGS regulations to consult with the TLC. TLC will arrange for an independent expert to speak to the TLC management committee. TLC considers that INPEX should inform NOPSEMA that it has not fully consulted with the TLC and that the TLC should be informed if INPEX does not submit its EP as planned. TLC advised that any consultation with Tiwi Traditional Owner #1 (represented by EDO) is not a matter relevant to the consultation INPEX ought to be undertaking with the TLC.	Relevant matter - relevant person has provided or requested information relevant to the activity and/ or their functions, interest or activities.	The TLC has been provided with sufficient information and a reasonable period of time to consider potential consequences on their functions, activities and interests. To date, no additional or new information has been received that has required change to the EP.  No changes were made to the EP as a result of feedback received from TLC.
3/08/2023	NA	Email	NA	INPEX assured TLC that INPEX is not seeking to be disingenuous or indifferent to the TLCs input regarding impacts and risks of proposed activity. INPEX advised that they are committed to continuing to engage with any party for the life of the EP and that if new information is received at any time, that it will be managed through INPEXs MOC process. INPEX considers that they have constructively engaged with the TLC throughout 2023. No feedback has been received that has required changes to any section of the EPs. The arrangement of the third party marine scientist is considered part of INPEXs long term relationship with the TLC. INPEX is committed to providing ongoing consultation for future EPs with the TLC and Tiwi people and genuinely seeks to meet obligations under the OPGGS regs. INPEX looks forward to progressing arrangements for the third party marine scientist at a time suitable to TLC in relation to this activity.	N/A - correspondence sent by INPEX	
18/08/2023	NA	Phone Call	NA	TLC environmental representative advised that they are still happy for INPEX to engage Darwin based third party marine scientist.	General correspondence	
12/09/2023	NA	Email	NA	INPEX provided update to TLC: - Darwin based third party marine scientist has confirmed availability to meet with the TLC Executive - Tiwi Traditional Owner #1 does not wish to proceed with meeting INPEX in relation to these EPs.	N/A - correspondence sent by INPEX	
NA	15/09/2023	Email	NA	TLC advised INPEX they have spoken with Darwin based third party marine scientist; date in October proposed.	General correspondence	

		15/09/2023	NA	Email	NA	INPEX confirmed availability for proposed date; separate contact will be made regarding logistics.	General correspondence	Table 9-7 of the EP has been updated to reflect the following commitment: INPEX will procure an independent marine scientist to brief the TLC at a time nominated by the TLC Executive Committee during the implementation of this EP.
		NA	NA	NA	NA	Consultation in the course of preparation of the EP has been completed in accordance with the OPGGS (E) Regulations. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3).	NA	
Northern Territory	Tiwi Traditional Owner (TTO#1) Represented by Environmental Defenders Office (EDO)	NA	6/10/2022	Email	Letter	EDO client asserted that they were a relevant person under Regulation 11A of the OPGGS (Environment) Regulations for INPEX's Bonaparte Basin EPs. EDO client requested that INPEX make arrangements for in-person briefings for each of the Tiwi clan groups and the main communities on the Tiwi Islands on the EPs. EDO client requested that the briefings address the potential impacts of the activities in the EPs on the interests, activities and functions of the Tiwi people of each clan group.  Note: this letter was addressed to NOPSEMA and submitted during public comment period for this EP.	Relevant matter - relevant person has provided information relevant to the activity and/or their functions, interest or activities.	An EDO client on the Tiwi Islands asserted that they were a relevant person under Regulation 11A of the OPGGS (Environment) Regulations for INPEX's Bonaparte Basin EPs during the public comment period. As the PEZ for this EP covers the Tiwi Islands, INPEX identified this individual as a relevant person for this EP and has consulted with them via the EDO. As a result of feedback from other Aboriginal relevant persons, Section 4 of the EP has a new sub-section (4.11.5) added to describe the culture and connection to country, sea country and submerged historic landscapes, Aboriginal sacred sites, Aboriginal seasonal calendars and the traditional use of resources. This includes information specific to the Tiwi Islands, and has been used to update the EP in Section 7 and 8, refer to Table 7-15, Table 8-6 and Table 8-9.
		3/11/2022	NA	Email	Letter C050-IPX-EDO-LE-70000	INPEX noted the EDO's client requested certain actions to be carried out by INPEX in relation to EPs submitted to NOPSEMA. INPEX advised the letter would be reviewed to understand the claims made by the EDOs client and the status of consultation required under the OPGGS Regulations.	N/A - correspondence sent by INPEX	
		24/03/2023	NA	Email	Letter C050-IPX-EDO-LE-70001	INPEX advised that since previous correspondence, a review of 'Relevant Person' identification process and approach to EP consultation had been conducted. INPEX appreciated EDO advice that their client is concerned that they and other Traditional Owners on the Tiwi Islands have not been consulted on the referenced EPs. As part of consultation with a range of Aboriginal stakeholders in northern Australia, INPEX aims to provide the Traditional Owners of the Tiwi Islands with sufficient information to allow an informed assessment of impacts from the proposed activities on functions, interests and activities.	N/A - correspondence sent by INPEX	
		30/06/2023	NA	Email	Letter C050-IPX-EDO-LE-70002	INPEX provided overview of EP consultation with Traditional Owners and the clans of the Tiwi Islands throughout 2023. INPEX requested that should the EDOs client have further questions about INPEXs offshore activities, please advise the specific matters so that INPEX can provide additional information, if required. INPEX requested a response by 14th July 2023.	N/A - correspondence sent by INPEX	
		NA	14/07/2023	Email	NA	EDO advised that a generic email address was used by INPEX for sending correspondence. EDO requested that alternative email addresses be used in future and sought an extension of time to respond to INPEX.	General correspondence	
		17/07/2023	NA	Email	NA	INPEX advised EDO that a response by 21 July would be appreciated and confirmed that future correspondence would be directed as requested by EDO.	N/A - correspondence sent by INPEX	
		NA	24/07/2023	Email	NA	EDO advised that due to a delay they hope to provide a response later today.	General correspondence	
		24/07/2023	NA	Email	NA	INPEX thanked EDO for update.	N/A - correspondence sent by INPEX	
		NA	24/07/2023	Email	NA	EDO advised: - client has concerns that consultation by INPEX is not consistent with OPGGS Regs and NOPSEMA guidelines - client considers that INPEX has misspelt clan names - client wishes to meet with INPEX to receive information and wishes to have EDO and other Tiwi people present. At present is unable to confirm who else will attend.	Not a relevant matter	
		31/07/2023	NA	Email	C050-IPX-EDO-LE-70003	INPEX summarised letters, meetings and targeted newspaper and radio advertising that have occurred with Tiwi Island communities to date, including a meeting attended by all clan group representatives on 5/5/23. - INPEX clarified reference source and spelling of clan names - INPEX has taken reasonable steps to address the 'instructions' set out in the 6/10/ 2022 EDO letter, including the revision of its relevant persons identification methodology, to the extent required under the OPGGS Regulations and has not received a response to INPEXs letter dated 24/3/23. - INPEX notes that the client referred to the potential impact on sea country, but since the 2022 Letter, no information has been provided by the client on the location of the sea country that could be impacted that is not already the subject of a control within the EP. INPEX is committed to ongoing consultation with EDOs client and the Tiwi Island communities and offered meetings on 11,14, 17 and 18 August.	N/A - correspondence sent by INPEX	
		NA	1/08/2023	Email	NA	EDO requested INPEX advise: 1. what is the purpose of the consultation (Regulation 11A or other) 2. who was invited and who attended a meeting on 5th May. EDO advised 11 August 2023 will not be a suitable date and will seek instructions about the other dates proposed and will confirm whether and when EDO client will meet after receiving INPEX response to the above matters.	Not a relevant matter	
		3/08/2023	NA	Email	NA	INPEX advised that they are committed to continuing to engage with any party for the life of the EP. The opportunity to provide information at any time is available. Information made available to INPEX may be used to ensure that risks are reduced to ALARP and acceptable levels. INPEX encouraged EDOs client to meet with INPEX to provide information that may inform the EP. Several meeting dates were offered during August.	N/A - correspondence sent by INPEX	
		NA	3/08/2023	Email	NA	EDO advised they did not consider that INPEX had responded to the questions raised in their email sent 1/8/23 and that they can't finalise instructions in relation to the location, date or attendees of a potential meeting with INPEX until INPEX provides responses.	Not a relevant matter	

		8/08/2023	NA	Email	NA	INPEX advised as per previous correspondence the purpose of meeting is to provide EDOs client further opportunity to advise INPEX if there are any potential impacts on functions, interests and activities that may be affected by activities in the EPs. No information has been provided by EDOs client since 6 October 2022. Regarding the personal details requested, INPEX does not consider it appropriate to provide this information. INPEX remains willing to meet EDOs client at the times nominated, or other alternative dates.	N/A - correspondence sent by INPEX	
		NA	14/08/2023	Email	NA	EDO advised they are seeking instruction in relation to client availability; did not anticipate client would be available this week.	Not a relevant matter	
		16/08/2023	NA	Email	NA	INPEX acknowledged receipt of EDO email.	N/A - correspondence sent by INPEX	
		NA	22/08/2023	Email	NA	EDO advised they are still seeking instruction; anticipate speaking with client late this week and will revert as soon as possible after.	Not a relevant matter	
		22/08/2023	NA	Email	NA	INPEX advised it would be helpful to have options for meeting dates if possible.	N/A - correspondence sent by INPEX	
		NA	28/08/2023	Email	NA	EDO advised they have not yet spoken to their client. Arrangements being made to speak with client over the next 2 days and hope to revert shortly.	N/A - correspondence sent by INPEX	
		NA	1/09/2023	Email	NA	EDO advised their client does not wish to proceed with meeting INPEX in relation to INPEX EPs.	Not a relevant matter	
		5/09/2023	NA	Email	NA	INPEX noted EDO advice.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	Consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3).	NA	
Western Australia	Kimberley Land Council (KLC)	27/01/2023	NA	Email	Letter C050-IPX-----LE-70004	INPEX requested opportunity to provide in-person briefing regarding INPEX's proposed offshore activities and EP consultation.	N/A - correspondence sent by INPEX	
		NA	30/01/2023	Email	NA	KLC emailed INPEX, confirming availability for an in-person meeting early next month.	General correspondence	
		9/02/2023	NA	In person meeting	PowerPoint Presentation EP summary website links	INPEX and KLC met to discuss proposed offshore activities and best approach to consultation. During the meeting the KLC recommended to INPEX that Native title PBCs should be contacted directly to request EP consultations, rather than through the KLC. INPEX should consider the way consultations are delivered, noting some of the native title groups may require information to be interpreted, or may not have regular access to the internet. Face-to-face consultations should be considered in the first instance.	Relevant matter - relevant person has provided information relevant to the activity and/ or their functions, interest or activities.	INPEX has incorporated the feedback received from the KLC with respect to establishing effective approaches to consulting with Aboriginal relevant persons. This relevant matter raised has been reflected in the EP within INPEX's Relevant Persons Identification Methodology (refer to Appendix B.2).
		7/03/2023	NA	NA	Letter C050-IPX-----LE-70023	INPEX emails a letter to KLC, thanking them for the opportunity to meet in person earlier in February. INPEX summarises key points discussed and offers the opportunity for a regular annual updates directly to KLC board, to keep them updated with future activities.	N/A - correspondence sent by INPEX	
		14/04/2023	NA	NA	NA	INPEX contacted KLC to inform them the EP will be lodged shortly. INPEX advised that the opportunity to engage and provide feedback continues.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	Consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3).	NA	
Western Australia	Miriwung Gajerrong Aboriginal Corporation RNTBC	27/01/2023	NA	Email	Letter C050-IPX-----LE-70003	INPEX contacted MG Corporation requesting opportunity to provide in-person briefing regarding INPEXs proposed offshore activities.	N/A - correspondence sent by INPEX	
		NA	2/02/2023	Email	NA	MG Corporation responds to INPEX email, and provides INPEX with suggested dates for an in-person meeting.	General correspondence	
		2/02/2023	NA	Email	NA	Meeting scheduling arrangements.	N/A - correspondence sent by INPEX	
		16/02/2023	NA	In person meeting	EP Presentation for MG Corporation	INPEX and MG Corporation representatives met at the INPEX Perth Office. INPEX presented information on proposed offshore activities, overview of environment plans and consultation requirements. MG Corporation requested clarification of location of proposed activity in relation to their native title area.	Relevant matter - relevant person has provided or requested information relevant to the activity and/ or their functions, interest or activities.	Following the meeting, INPEX provided a copy of the presentation and the requested map. No changes were made to the EP as a result of the feedback from this relevant person.
		28/02/2023	NA	Email	Copy of presentation delivered on 16/2/23, Map C090-DH-MAP-11216_0	INPEX thanked MG Corporation for meeting. INPEX provided a copy of the presentation and an updated map of the project area in relation to native title area. INPEX advised: - requesting feedback where MG Corporation would like more or different information - seeking MG Corporation's informed views about any potential impacts of proposed activities. - proposed an annual briefing to the board to provide information on INPEX activities in the future.	N/A - correspondence sent by INPEX	
		14/04/2023	NA	Email	NA	INPEX contacted MG Corporation to advise the EP will be lodged shortly. INPEX advised that the opportunity to engage and provide feedback continues.	N/A - correspondence sent by INPEX	
		22/05/2023	NA	Email	NA	INPEX advised that EP consultation in the Northern Territory with the NLC is continuing. INPEX sought confirmation from MG Corporation that MG Corporation looks after its own business, including for consultations with the Native Title Holders for the Native Title Determinations in the NT over certain areas. INPEX asked MG Corporation to confirm whether any additional information or further consultation associated with INPEXs proposed offshore activities is required. INPEX asked whether an annual briefing of MG Corporation would be appropriate in the future.	N/A - correspondence sent by INPEX	
		9/06/2023	NA	Email	NA	INPEX advised they were planning to be in Kununurra on 16th June and available for a quick meeting if possible to arrange.	N/A - correspondence sent by INPEX	
		14/06/2023	NA	Text Message	NA	INPEX followed up previous communications, asked whether MG Corporation needed any further information, sought update on previous query on Native Title Determination in the NT.	N/A - correspondence sent by INPEX	
		16/06/2023	NA	Email	NA	INPEX advised they are arriving in Kununurra around lunchtime and available to meet. NB: the meeting did not take place due to flight issues.	N/A - correspondence sent by INPEX	

		20/07/2023	NA	Email	NA	INPEX provided update on community consultation sessions and advised that while the EP will be submitted to NOPSEMA in late July 2023 the opportunity to engage and provide feedback remains open.	N/A - correspondence sent by INPEX	
		26/07/2023	NA	Text Message	NA	Meeting arrangements for planned meeting that day.	N/A - correspondence sent by INPEX	
		NA	26/07/2023	Text Message	NA	Postponement of planned meeting.	General correspondence	
		26/07/2023	NA	Text Message	NA	INPEX advised that as per last email, EPs will be lodged at end of July and that INPEX considered that sufficient information and time had been provided. Sought confirmation of this understanding. INPEX remains keen to engage about longer term consultation with Miriung and Gajerrong people.	N/A - correspondence sent by INPEX	
		28/08/2023	NA	Email	NA	Further to conversations in Darwin in July, INPEX advised that field officers will be in area this week to get in touch with senior native title holders for Legune and Spirit Hill station. Planning to set up consultations for the week of 18 September. The field officers will organising logistics for meeting and any help that can be provided would be appreciated.	N/A - correspondence sent by INPEX	
		22/09/2023	NA	Email	NA	INPEX advised MG Corporation representative as a courtesy that EP consultation had been completed in Kununurra with Gajerrong people associated with the native title determination areas on the NT side – Spirit Hills and Legune Stations, as well as Wadeye.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	Consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3).	NA	
Western Australia	Balanggarra Aboriginal Corporation RNTBC	16/02/2023	NA	Email	NA	Introductory email explaining purpose of EP consultation; advising that a letter would be sent shortly.	N/A - correspondence sent by INPEX	
		NA	16/02/2023	Email	NA	BAC thanked INPEX for information and will forward to interim CEO for their attention.	General correspondence	
		28/02/2023	NA	Email	Letter C050-IPX-----LE-70015	INPEX requests opportunity to provide in-person briefing regarding proposed offshore activities.	N/A - correspondence sent by INPEX	
		NA	28/02/2023	Email	NA	Acknowledgement of receipt received from BAC via email.	General correspondence	
		28/02/2023	NA	Email	NA	INPEX responds to email from BAC	N/A - correspondence sent by INPEX	
		16/03/2023	NA	In person meeting	EP Summary website	INPEX met with BAC representatives in Perth to discuss EP consultation and proposed offshore activities. BAC representatives agreed to share the information provided by INPEX with their board for further consideration.	Not a relevant matter	
		22/03/2023	NA	Email	Letter C050-IPX-----LE-70024 EP Summary website	INPEX thanked BAC for the opportunity to meet in-person earlier in March. INPEX provides a summary of key points discussed, and extends an offer to consult the BAC Board of Directors.	N/A - correspondence sent by INPEX	
		14/04/2023	NA	NA	NA	INPEX contacted BAC to inform them the EP will be lodged shortly. INPEX advised that the opportunity to engage and provide feedback continues.	N/A - correspondence sent by INPEX	
		9/06/2023	NA	Email	NA	INPEX followed up previous communications and advised they would phone BAC to discuss current and future EPs and consultation. INPEX advised of availability to meet in person in Kununurra in the next week.	N/A - correspondence sent by INPEX	
		9/06/2023	NA	Phone Call	NA	INPEX advised of change of INPEX contact person for purposes of EP consultation. INPEX asked for opportunity to confirm that BAC had enough information and to discuss current and future EPs. BAC advised a board meeting was being held the following week which would likely result in changes to the Board. INPEX matters would need to be put to the new board once established. BAC representative advised they would be happy to give INPEX an update on the Board meeting outcomes and can talk more about INPEX matters then.	General correspondence	
		20/07/2023	NA	Email	NA	INPEX followed up previous communications and advised that while the EP will be submitted to NOPSEMA in late July 2023 the opportunity to engage and provide feedback remains open.	N/A - correspondence sent by INPEX	
		15/09/2023	NA	Text Message	NA	INPEX contacted BAC representative, advised would be in Kununurra shortly, sought to arrange a catch up.	N/A - correspondence sent by INPEX	
		19/09/2023	NA	Phone Call	NA	Phone message left for BAC representative seeking a catch up in Kununurra.	N/A - correspondence sent by INPEX	
		21/09/2023	NA	Text Message	NA	INPEX advised an email would be sent shortly to BAC representative; sought to arrange catch up in Kununurra.	N/A - correspondence sent by INPEX	
		21/09/2023	NA	Email	NA	INPEX advised BAC representative that EPs will be submitted to NOPSEMA, sufficient time and information had been provided to BAC, and that opportunity to provide feedback remains with any new information to be managed via EP MOC process. INPEX can attend a BAC Board Meeting to brief on future proposed offshore activities and EPs.	N/A - correspondence sent by INPEX	
		23/09/2023	NA	Text Message	NA	INPEX sought to arrange a catch up in Kununurra.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	Consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3).	NA	
Western Australia	Wunambal Gaambera Aboriginal Corporation	23/02/2023	NA	Email	Letter C050-IPX-----LE-70020	Introductory email to WGAC, requesting opportunity to meet regarding proposed offshore activities.	N/A - correspondence sent by INPEX	
		13/04/2023	NA	Email	NA	Meeting invitation sent to WGAC for mutually agreeable time.	N/A - correspondence sent by INPEX	

		14/04/2023	NA	In person meeting	Meeting minutes	Meeting outcomes: <ul style="list-style-type: none"> <li>WGAC is aware of the offshore EP consultation requirements. WGAC are aware that the risk of an oil spill may have low likelihood but the consequence from pollution could be catastrophic to their sea-country and values.</li> <li>WGAC has some capacity however they don't have a capability or expertise to assess potential risk of oil spills or vessel collisions and how they may have impact on their sea country and cultural value.</li> <li>WGAC is interested in having a access to/understanding of the data that support modelling predictions.</li> <li>WGAC welcomes an opportunity for INPEX to reconnect with their people noting INPEX is their neighbour and has long-term operations in the region. WGAC invited INPEX to meet with their directors on country possibly in May or June.</li> </ul>	Relevant matter - relevant person has provided or requested information relevant to the activity and/ or their functions, interest or activities.	Following the meeting, INPEX provided WGAC with the requested information including a link to the EP. INPEX provided the information requested by WGAC to reflect the relevant matters raised. This data included: <ul style="list-style-type: none"> <li>Basis of the oceanic data to understand current movements by seasons etc</li> <li>Australian Institute of Marine Science (AIMS) research data for Browse Island</li> <li>Data from INPEX's publication "Ecological studies of the Bonaparte Archipelago and Browse Basin (Comrie-Greig, J. and Abdo, L. (eds). 2014). No changes were made to the EP as a result of the feedback from this relevant person.</li> </ul>
		23/05/2023	NA	Email	EP Summary website	Additional information provided by INPEX following meeting in April: <ul style="list-style-type: none"> <li>link to EP summary website</li> <li>link to oil spill mapping software used by INPEX</li> <li>confirmation that INPEX can request specific data sets from AIMS research data for Browse Island</li> <li>link to ecological studies of the Bonaparte Archipelago and Browse Basin</li> </ul> INPEX would be pleased to make an in person presentation to the WGAC board on INPEXs current and future activities.	N/A - correspondence sent by INPEX	
		20/06/2023	NA	Email	NA	Follow up to previous email, INPEX sought a telephone meeting to discuss information previously sent.	N/A - correspondence sent by INPEX	
		10/07/2023	NA	Phone Call	NA	Phone message left for WGAC regarding previous correspondence.	N/A - correspondence sent by INPEX	
		20/07/2023	NA	Email	NA	INPEX followed up previous communications and advised that while the EP will be submitted to NOPSEMA in late July 2023 the opportunity to engage and provide feedback remains open. As part of sustainable and long term approach to engagement INPEX would value opportunity to present to the Board at a convenient time.	N/A - correspondence sent by INPEX	
		NA	2/08/2023	Email	NA	WGAC followed up previous discussions regarding sharing of data from Ecological Studies of the Bonaparte Archipelago and Browse Basin between 2005 - 2008. WGAC requested a specified suite of data.	General correspondence	
		3/08/2023	NA	Email	NA	INPEX confirmed that they would be pleased to work with WGAC to share data and will be in touch.	N/A - correspondence sent by INPEX	
		27/09/2023	NA	Email	NA	INPEX confirmed that the ecological data requested by WGAC can be shared without confidentiality restrictions; INPEX will collate and provide as requested.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	Consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3).	NA	
Western Australia	Dambimangari Aboriginal Corporation	30/01/2023	NA	Email	NA	Introductory email to DAC CEO, requested opportunity to provide in-person briefing regarding proposed offshore activities.	N/A - correspondence sent by INPEX	
		22/02/2023	NA	Email	NA	Emailed alternative DAC address requesting best contact person and availability for an in-person meeting in early March.	N/A - correspondence sent by INPEX	
		23/02/2023	NA	Email	Letter C050-IPX-----LE-70017	An email to DAC with a letter attached, requesting opportunity to provide in-person briefing regarding proposed offshore activities.	N/A - correspondence sent by INPEX	
		NA	27/02/2023	Email	NA	DAC emails INPEX to inform them that their calendar is full for March, and that they are unable to provide alternative meeting dates. DAC requests for more information on the proposed activities and consultation time-lines.	General correspondence	
		27/02/2023	NA	Email	Link to EP summary website	INPEX responds to DAC, requesting they advise if and when they have availability to meet. INPEX provides further information on proposed activities and consultation timelines.	N/A - correspondence sent by INPEX	
		15/03/2023	NA	Email	NA	Email to DAC to follow up on previous communications, and to enquire on availability for an in-person meeting.	N/A - correspondence sent by INPEX	
		4/04/2023	NA	SMS	NA	Text message from INPEX personnel to DAC requesting opportunity to set up a meeting to discuss proposed environment plans.	N/A - correspondence sent by INPEX	
		14/04/2023	NA	Email	NA	INPEX expressed regret that it had been unable to schedule a time to meet with DAC. INPEX advised that it is intending on submitting EP in late April / early May 2023 and the opportunity to engage and provide feedback continues.	N/A - correspondence sent by INPEX	
		24/05/2023	NA	Email	NA	INPEX advised of change of INPEX contact person for purposes of EP consultation. INPEX reiterated to please reach out with any queries that DAC may have about INPEX related activities.	N/A - correspondence sent by INPEX	
		8/06/2023	NA	Email	Link to EP summary website	INPEX representative followed up previous emails and sought to understand whether DAC had enough information to make an informed decision. If a meeting was not considered necessary please confirm with INPEX alternatively a meeting with INPEX can be arranged to discuss proposed offshore activities.	N/A - correspondence sent by INPEX	
		10/07/2023	NA	Phone Call	NA	Phone message left for DAC CEO to follow up previous correspondence.	N/A - correspondence sent by INPEX	
		25/07/2023	NA	Email	NA	INPEX followed up previous communications and advised that while the EP will be submitted to NOPSEMA in late July 2023 the opportunity to engage and provide feedback remains open. As part of sustainable and long term approach to engagement INPEX would value opportunity to present to the Board at a convenient time.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	Consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3).	NA	



Western Australia	Mayala Inninalang Aboriginal Corporation RNTBC	23/02/2023	NA	Email	Letter C050-IPX-----LE-70016	Introductory email to Mayala Inninalang Aboriginal Corporation as representative of the Mayala people, requesting opportunity to provide in-person briefing regarding proposed offshore activities.	N/A - correspondence sent by INPEX	
		NA	23/02/2023	Email	NA	Mayala Inninalang Chairperson confirmed Board meeting is scheduled for 2/3/2023 and INPEX letter will be added to agenda for discussion. INPEX will be notified once Board has given instructions.	General correspondence	
		23/02/2023	NA	Email	NA	INPEX thanked Chairperson for prompt response and confirmation that INPEX correspondence will be added to agenda of upcoming Board meeting.	N/A - correspondence sent by INPEX	
		2/03/2023	NA	In person meeting	EP Presentation for Mayala Inninalang Aboriginal Corporation	INPEX and Mayala met to discuss proposed offshore activities and best approach to consultation.	General correspondence	
		NA	20/03/2023	Email	NA	Mayala Inninalang emails INPEX to request a copy of the presentation that was provided in the meeting held on 2/3/2023.	General correspondence	
		20/03/2023	NA	Email	EP Presentation for Mayala Inninalang Aboriginal Corporation	INPEX provided a copy of the EP Presentation that was made on 2/3/2023.	N/A - correspondence sent by INPEX	
		5/04/2023	NA	Email	NA	INPEX followed up previous correspondence; asked if the information shown during the meeting had been shared with the Board of Directors and if there are any follow up questions following the meeting.	N/A - correspondence sent by INPEX	
		8/06/2023	NA	Email	EP Summary website	INPEX representative followed up previous email and sought to understand whether Mayala Inninalang AC would like to receive further information, if the Board has any concerns or questions or do they consider they have received sufficient information.	N/A - correspondence sent by INPEX	
NA	NA	NA	NA	Consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3).	NA			
Western Australia	Warrwa Aboriginal Corporation RNTBC	23/02/2023	NA	Email	Letter C050-IPX-----LE-70019	Introductory email to WAC, requesting opportunity to provide in-person briefing regarding proposed offshore activities.	N/A - correspondence sent by INPEX	
		13/03/2023	NA	Email	INPEX Australia Media Release, dated 16 January 2023	INPEX follows up previous email and letter and provides copy of recent media release.	N/A - correspondence sent by INPEX	
		16/03/2023	NA	In person meeting	INPEX Briefing to Warrwa Aboriginal Corporation Board [presentation slides]	INPEX presents to WAC Board of Directors on the proposed offshore activities. During the meeting the following items were raised: <ul style="list-style-type: none"> <li>WAC asked about drilling coordinates in relation to Browse Island.</li> <li>oil spill response in context of fast moving tidal movements and currents around Derby</li> <li>Is INPEX drilling anywhere near King Sound? (lots of Islands in the Kimberley)</li> <li>Is there native title on Browse Island?</li> <li>presence of songlines and stories that historically would have extended to areas near or past permit areas.</li> </ul>	Relevant matter - relevant person has provided or requested information relevant to the activity and/ or their functions, interest or activities.	A new section in the Existing Environment Section of the EP (Section 4.11.5) has been added to describe the culture and connection to country, sea country and submerged historic landscapes, Aboriginal sacred sites, Aboriginal seasonal calendars and the traditional use of resources. No changes to the EP have been made specifically in response to the feedback from this relevant person.
		23/03/2023	NA	Email	Meeting notes EP summary website	INPEX emailed WAC to thank them for their time in meeting on 16 March. INPEX provides a copy of the meeting summary notes. INPEX provided link to the EP summary website and provided additional information discussed in the meeting. INPEX confirmed they are not drilling near King Sound, the location is around 350km offshore from Derby, WA.	N/A - correspondence sent by INPEX	
		NA	23/03/2023	Email	NA	WAC emailed INPEX, confirming they have received the meeting summary notes and that they are looking forward to continuing conversation on best approach to consultation.	General correspondence	
		14/04/2023	NA	NA	NA	INPEX contacted WAC to inform them the EP will be lodged shortly. INPEX advised that the opportunity to engage and provide feedback continues.	N/A - correspondence sent by INPEX	
		24/05/2023	NA	Email	NA	INPEX advised of change of INPEX contact person for purposes of EP consultation. INPEX reiterated to please reach out with any queries that WAC may have about INPEX related activities.	N/A - correspondence sent by INPEX	
		NA	24/05/2023	Email	NA	Acknowledgement of receipt of INPEX email received.	General correspondence	
NA	NA	NA	NA	Consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3).	NA			
Western Australia	Walalakoo Aboriginal Corporation RNTBC	23/02/2023	NA	Email	Letter C050-IPX-----LE-70014	INPEX requested opportunity to provide an in-person briefing regarding proposed offshore activities.	N/A - correspondence sent by INPEX	
		NA	23/02/2023	Email	NA	Return email from Walalakoo representative, advising that they no longer work for Walalakoo.	General correspondence	
		8/03/2023	NA	In person meeting	NA	INPEX meets with Walalakoo incoming GM in Broome to discuss potential next steps in EP consultation. INPEX confirmed they would provide Walalakoo representative a copy of the letter that was sent to the board in February.	N/A - correspondence sent by INPEX	
		15/03/2023	NA	Email	Letter C050-IPX-----LE-70014	INPEX emailed Walalakoo GM thanking them for their time and requests opportunity for a formal meeting with the Board at a convenient time.	N/A - correspondence sent by INPEX	
		30/03/2023	NA	In person meeting	Presentation EP Summary Website	INPEX met with Walalakoo GM and provided overview of INPEX and the purpose of seeking consultation with coastal traditional owner groups. GM agreed to take back to the Board for consideration. If the Board agreed, INPEX would be informed of the next meeting of the Board and also noted that the Walalakoo Board have a policy in place to charge any external presenters. INPEX agreed to follow up with an email outlining the discussion.	Not a relevant matter	
		12/04/2023	NA	Email	Presentation	INPEX emails Walalakoo GM to thank them for their time on 30 March. INPEX notes their understanding on the Walalakoo's internal policies in consultation, and notes that INPEX will wait for Walalakoo to inform them of what the next best steps in consultation for this particular EP will be.	N/A - correspondence sent by INPEX	

		14/04/2023	NA	Email	NA	INPEX thanked WAC representative for reviewing documentation and agreeing to present it to WAC board to consider an in person briefing in the future. INPEX advised that it is intending on submitting EP in late April / early May 2023 and that the opportunity to engage and provide feedback continues.	N/A - correspondence sent by INPEX	
		NA	11/05/2023	Email	NA	WAC acknowledged receipt of email sent by INPEX on 14/4/23.	General correspondence	
		NA	NA	NA	NA	Consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3).	NA	
Western Australia	Nimanburr Aboriginal Corporation RNTBC	2/02/2023	NA	Email	NA	INPEX emailed NAC to request a meeting to discuss upcoming EP consultation.	N/A - correspondence sent by INPEX	
		NA	7/02/2023	Email	NA	NAC confirm INPEX have been added to their March meeting agenda to present EP information to the Board of Directors.	General correspondence	
		23/02/2023	NA	Email	Letter C050-IPX-----LE-70012	Follow up regarding upcoming briefing regarding the proposed offshore activities.	N/A - correspondence sent by INPEX	
		7/03/2023	NA	In person meeting	Meeting minutes EP summary website	INPEX met with NAC in Broome to present information on the EP and discuss any concerns of question NAC or Nimanburr people might have. During the meeting the following items were discussed: - What happens to waste materials? - Where is the waste disposed of (Broome/Darwin)? - What is the nearest landfall? - Will vessels create issues for turtles, dugongs and whales?	Relevant matter - relevant person has provided or requested information relevant to the activity and/ or their functions, interest or activities.	INPEX provided response to the matters raised during the meeting and confirmed these aspects are assessed and controls in place in the EP in Section 7.2 (Table 7-10) and Section 7.4.2 (Table 7-13) .
		14/04/2023	NA	Email	NA	INPEX thanked NAC board members for their time during meeting in February and for the feedback provided on the EP. INPEX advised that it is intending on submitting EP in late April / early May 2023. INPEX advised that the opportunity to engage and provide feedback continues.	N/A - correspondence sent by INPEX	
		24/05/2023	NA	Email	NA	INPEX advised of change of INPEX contact person for purposes of EP consultation. INPEX reiterated to please reach out with any queries that NAC may have about INPEX related activities.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	Consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3).	NA	
Western Australia	Bardi and Jawi Niimidiman Aboriginal Corporation RNTBC	23/02/2023	NA	Email	Letter C050-IPX-----LE-7001 EP summary website	Email to BJNAC as representative of the Bardi Jawi native title holders, requesting opportunity to provide in-person briefing on proposed offshore activities. Dates in March were proposed for a meeting in Broome.	N/A - correspondence sent by INPEX	
		NA	23/02/2023	Email	NA	BJNAC advised that as their board is not meeting until April, they are unable to confirm a meeting availability with INPEX at this stage.	General correspondence	
		23/02/2023	NA	Email	NA	INPEX advised they will wait further confirmation of BJNAC's availability for a meeting in April.	N/A - correspondence sent by INPEX	
		29/03/2023	NA	Phone Call	NA	Meeting between INPEX and BJNAC was scheduled for 29 March, but did not proceed due to weather conditions making unsealed road access inaccessible. The meeting is to be rescheduled at a later date.	N/A - correspondence sent by INPEX	
		14/04/2023	NA	Email	NA	INPEX expressed regret that it had been unable to schedule a time to meet with BJNAC. INPEX advised that it is intending on submitting EP in late April / early May 2023 and that the opportunity to engage and provide feedback continues.	N/A - correspondence sent by INPEX	
		NA	14/04/2023	Email	NA	BJNAC emailed INPEX, together with other titleholders, informing of an upcoming meeting of the PBC on 19-20 April in which they plan to discuss each of the titleholders proposed matters.  BJNAC raised matter of Bardi Jawi Marine Park as a consideration to be factored into EP.	Relevant matter - relevant person has provided or requested information relevant to the activity and/ or their functions, interest or activities.	With regard to the values in the Bardi Jawi Gaara Marine Park, the EP describes these values in Section 4.4.10 of the EP and references the Joint Management Plan (DBCA 2022b). Additionally, a new section (Section 4.11.5) was added to describe the culture and connection to country, sea country and submerged historic landscapes, Aboriginal sacred sites, Aboriginal seasonal calendars and the traditional use of resources. This information has been used to update the EP in Section 7 and 8, refer to Table 7-15, Table 8-6 and Table 8-9.  Noting that the likelihood of a hydrocarbon spill occurring is assessed as highly unlikely and the actual area that may be affected from any single spill event would be considerably smaller than that represented by the PEZ and EMBA. Therefore, impacts associated with disruption and loss of access to culturally significant sites following a spill are expected to be limited, and potentially result in isolated community disruption (Minor E).
						BJNAC advised of the intent to share a resourcing protocol within 28 days (i.e. by 14th May) to allow the PBC to provide necessary assistance to titleholders on their various matters.	General correspondence	
						BJNAC advised they object to INPEX progressing matters with the PBC, as well as making a submission to NOPSEMA for the Environmental Plan.	Objection or claim does not have merit	No changes have been made to the EP as a result of this feedback.
		19/04/2023	NA	Email	NA	INPEX thanked BJNAC for email and acknowledged request for discussion of resourcing protocol. INPEX looks forward to receiving the draft for potential use in the future. INPEX advised that with respect to current EPs, values associated with the Bardi and Jawi Marine Park have been described in the EP, and a new table has been added to describe the culture and connection to country, sea country and submerged historic landscapes, Aboriginal sacred sites, Aboriginal seasonal calendars and the traditional use of resources.  Note: INPEX considers cultural matters raised in relation to the Bardi Jawi Marine Park have been addressed in the EP based on the information received from BJNAC (see log entry 14/4/23).	N/A - correspondence sent by INPEX	

		1/06/2023	NA	Phone Call	NA	Phone message was left for BJNAC representative to follow up the draft resourcing protocol that was to be issued within 28 days from 14/4/23.	N/A - correspondence sent by INPEX	
		NA	5/06/2023	Email	2020605 DRAFT Resourcing Protocol BJNAC_Template	BJNAC provided a draft copy of the PBC's resourcing protocol for INPEXs' consideration.	General correspondence	
		26/06/2023	NA	Email	2020605 DRAFT Resourcing Protocol BJNAC_Template	INPEX thanked BJNAC for the draft resourcing protocol previously provided. INPEX has reviewed the document and would like discuss the PBCs needs and how the protocol fits with the requirements for providing information about INPEXs offshore activities under the OPGGS Act. INPEX sought to arrange a meeting.	N/A - correspondence sent by INPEX	
		11/07/2023	NA	Phone Call	NA	INPEX spoke with BJNAC representative to discuss the draft resourcing protocol and in person meeting arrangements.	General correspondence	
		12/07/2023	NA	Email	NA	Meeting scheduling arrangements.	N/A - correspondence sent by INPEX	
		12/07/2023	NA	Email	NA	INPEX provided additional contact details to BJNAC representative.	N/A - correspondence sent by INPEX	
		20/07/2023	NA	Email	NA	INPEX followed up previous meeting scheduling arrangements and advised that while the EP will be submitted to NOPSEMA in late July 2023 the opportunity to engage and provide feedback remains open. INPEX asked BJNAC representative to phone when convenient to arrange meeting to discuss draft resourcing protocol, as per recent correspondence.	N/A - correspondence sent by INPEX	
		NA	17/08/2023	Email	NA	BJNAC representative advised availability and rates for meeting in Perth in August. If dates are not suitable, Broome is an option for meetings in the future.	General correspondence	
		18/08/2023	NA	Email	NA	Meeting scheduling and rates discussion.	N/A - correspondence sent by INPEX	
		NA	18/08/2023	Email	NA	Meeting scheduling discussion.	General correspondence	
		14/09/2023	NA	Email	EP summary website	INPEX followed up previous correspondence and will call to discuss opportunity to present to BJNAC Board on INPEXs future offshore activities. INPEX considers that sufficient time and reasonable information has been provided in relation to this EP. If new information is received at any time, it will be managed via INPEXs EP MOC process.  INPEX also indicated it is open to discussing reimbursement of reasonably incurred costs for future meetings with BJNAC. However the terms of the draft Resourcing Protocol Consultation Framework previously supplied by BJNAC are considered outside current requirements for consultation and INPEX are not able to agree to the terms set out in the document. INPEX also referenced the June 2023 National Summit on Consultation with First Nations People.	N/A - correspondence sent by INPEX	
		NA	14/09/2023	Email	NA	BJNAC representative proposed a phone call early next week.	General correspondence	
		14/09/2023	NA	Email	NA	Meeting scheduling discussion.	N/A - correspondence sent by INPEX	
		NA	14/09/2023	Email	NA	Meeting scheduling discussion.	General correspondence	
		18/09/2023	NA	Phone Call	NA	INPEX and BJNAC representative met via Teams.	General correspondence	
		20/09/2023	NA	Email	NA	Email sent to follow up Teams meeting on 18/9/23. INPEX is open to discussing with BJNAC the reimbursement of reasonable costs incurred regarding engagement for future EPs. INPEX indicated its preference not to enter into separate consultation protocols at this time. INPEX committed it would follow up with BJNAC after the next Summit.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	Since February 2023 INPEX has provided access to sufficient information via newspaper advertisements with EP website QR codes and links (Sunday Times, The West Australian, Broome Advertiser and Kimberley Echo on 1-2/3/23 and 29/6/23), The Australian on 24/2/23 and 28/6/23, radio advertisements (6DBY – Larrkardi Radio) between 3 - 16 July 2023 and geo-targeted social media advertising in Lombadina and Djarindjin between 3/7/23 and 23/7/23 (with an 80km radius including One Arm Point) to enable people in these communities to nominate as relevant persons if they wish.  Consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3).	NA	
Western Australia	Ardyaloon Incorporated	30/01/2023	NA	Email	NA	Email to request opportunity for an in-person meeting to discuss proposed offshore activities.	N/A - correspondence sent by INPEX	
		8/02/2023	NA	In person meeting	PowerPoint Presentation slides EP summary website	Meeting with representatives from Ardyaloon Incorporated and INPEX who provided information on proposed offshore activities. Ardyaloon Incorporated representatives spoke about community being connected to the sea and marine environment. It has an inherent value to Aboriginal people and should be recognised in the EP. Representatives requested that INPEX: - include consideration of cultural connection to the sea - that in the event of an oil spill (irrespective of shore contact) that the community be informed - should also speak to the Bardi Jawi Niimidiman Aboriginal Corporation RNTBC.	Relevant matter - relevant person has provided information relevant to the activity and/ or their functions, interest or activities.	Following the meeting, INPEX provided Ardyaloon Incorporated with a copy of newly drafted EP text (Section 4.1.1.5) to demonstrate the information that INPEX has used when considering Aboriginal cultural connection to sea country. This information reflects the relevant matters raised and has been used to update the EP in Section 7 and 8, refer to Table 7 -15, Table 8-6 and Table 8-9.  In the event of an oil spill, the Ardyaloon Incorporated will be notified, Table 2-4 External Notifications Matrix of the Browse Regional OPEP has been updated to reflect this requirement. INPEX confirmed they have identified Bardi Jawi Niimidiman Aboriginal Corporation RNTBC as a relevant person and is consulting with them on this EP
		17/02/2023	NA	Email	Draft text for EP considering Aboriginal cultural connection to sea country. Link to EP summary website	Minutes of the meeting were provided by INPEX with a request for representatives to confirm that the conversation was summarised accurately. Draft text of EP considering Aboriginal cultural connection to sea country provided.	N/A - correspondence sent by INPEX	

		14/04/2023	NA	Email	NA	INPEX thanked Ardyaloon Incorporated for reviewing documentation and agreeing to present it to Ardyaloon board to consider an in person briefing in the future. INPEX reiterated understanding of points raised during meeting: • Ardyaloon having commercial interests in and around Ardyaloon sea country that may impacted in the event of an oil spill; • Question as to whether depletion of oil and gas reservoirs could lead to earthquakes and or tsunamis; • Request to be informed of any oil spill regardless of whether it reaches the coastline. INPEX advised that it is intending on submitting EP in late April / early May 2023. INPEX noted that while the EP was being lodged for assessment with NOPSEMA, that the opportunity to meet with Ardyaloon Incorporated board and to provide feedback to INPEX remains open.	N/A - correspondence sent by INPEX	
		24/05/2023	NA	Email	NA	INPEX advised of change of INPEX contact person for purposes of EP consultation. INPEX reiterated to please reach out with any queries that Ardyaloon Incorporated may have about INPEX related activities.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	Consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3).	NA	
Western Australia	Djarindjin Aboriginal Corporation	30/01/2023	NA	Email	NA	Request to meet with the DAC Board to discuss proposed offshore activities.	N/A - correspondence sent by INPEX	
		8/02/2023	NA	In person meeting	PowerPoint Presentation slides EP summary website	Meeting with representatives from DAC and INPEX regarding proposed offshore activities. Matters raised by board: - intangible values and connections between the community, the sea, and all that is in it. Connection through traditional practices. Directors requested that INPEX: - include consideration of cultural connection to the sea the Djarindjin people hold and recognition of the Bardi seasonal calendar - that in the event of an oil spill (irrespective of shore contact) that the community be informed - should also speak to the Bardi Jawi Niimidiman Aboriginal Corporation RNTBC.	Relevant matter - relevant person has provided information relevant to the activity and/ or their functions, interest or activities.	A new section in the Existing Environment Section of the EP (Section 4.11.5) was added to describe the culture and connection to country, sea country and submerged historic landscapes, Aboriginal sacred sites, Aboriginal seasonal calendars and the traditional use of resources. This information reflects the relevant matters raised and has been used to update the EP in Section 7 and 8, refer to Table 7-15, Table 8-6 and Table 8-9. In the event of an oil spill, the Djarindjin Aboriginal Corporation will be notified, Table 2-4 External Notifications Matrix of the Browse Regional OPEP has been updated to reflect this requirement. As suggested by DAC, INPEX has identified Bardi Jawi Niimidiman Aboriginal Corporation RNTBC as a relevant person and is consulting with them on this EP.
		16/02/2023	NA	Email	Link to EP summary website Draft meeting minutes	INPEX thanked DAC for meeting. Minutes of the meeting were included with a request for Board representatives to confirm that the conversation was summarised accurately.	N/A - correspondence sent by INPEX	
		NA	16/02/2023	Email	NA	DAC thanked INPEX for sending through summary of meeting minutes and agreed the content was thorough. Djarindjin Aboriginal Corporation provided their own draft copy of minutes taken at the meeting and proposed that INPEX copy of minutes be incorporated for extra clarification.	General correspondence	
		17/02/2023	NA	Email	Draft text for EP considering Aboriginal cultural connection to sea country. Link to EP summary website	INPEX thanked DAC for sending draft minutes of the meeting to discuss Environment Plan consultation. INPEX attached draft EP text relating to the inclusion of Aboriginal cultural connection to sea country. INPEX welcomed feedback from the Board on the draft EP content.	N/A - correspondence sent by INPEX	
		14/04/2023	NA	Email	NA	INPEX thanked DAC representatives for their time during meeting in February and for information provided which has been incorporated into the EP. INPEX advised that it is intending on submitting EP in late April / early May 2023 and the opportunity to engage and provide feedback continues.	N/A - correspondence sent by INPEX	
		24/05/2023	NA	Email	NA	INPEX advised of change of INPEX contact person for purposes of EP consultation. INPEX reiterated to please reach out with any queries that DAC may have about INPEX related activities.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	Consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3).	NA	
Western Australia	Lombadina Aboriginal Corporation	30/01/2023	NA	In person meeting	NA	Initial email to request for an opportunity for an in-person meeting to discuss proposed offshore activities.	N/A - correspondence sent by INPEX	
		8/02/2023	NA	In person meeting	PowerPoint Presentation slides EP summary website	Meeting between Lombadina Aboriginal Corporation (LAC) and INPEX regarding proposed offshore activities. Matters raised by board: - all three representatives spoke about community being connected to the sea and coastal marine environment. It has an inherent value to Aboriginal people and should be recognised in the EP. Directors requested that INPEX: - include consideration of cultural connection to the sea (draft EP text attached for consideration) - that in the event of an oil spill (irrespective of shore contact) that the community be informed - should also speak to the Bardi Jawi Niimidiman Aboriginal Corporation RNTBC.	Relevant matter - relevant person has provided information relevant to the activity and/ or their functions, interest or activities.	A new section in the Existing Environment Section of the EP (Section 4.11.5) was added to describe the culture and connection to country, sea country and submerged historic landscapes, Aboriginal sacred sites, Aboriginal seasonal calendars and the traditional use of resources. This information reflects the relevant matters raised and has been used to update the EP in Section 7 and 8, refer to Table 7-15, Table 8-6 and Table 8-9. In the event of an oil spill, the Lombadina Aboriginal Corporation will be notified, Table 2-4 External Notifications Matrix of the Browse Regional OPEP has been updated to reflect this requirement. INPEX has identified Bardi Jawi Niimidiman Aboriginal Corporation RNTBC as a relevant person and is consulting with them on this EP
		17/02/2023	NA	Email	Draft text for EP considering Aboriginal cultural connection to sea country. Link to EP summary website	INPEX thanked LAC for meeting. Minutes of the meeting were provided by INPEX with a request for Board representatives to confirm that the conversation was summarised accurately. INPEX provided draft text for EP considering Aboriginal cultural connection to sea country.	N/A - correspondence sent by INPEX	
		14/04/2023	NA	Email	NA	INPEX thanked LAC representatives for their time during meeting in February, for agreeing to present it to LAC board to consider and the feedback provided on the EP. INPEX advised that it is intending on submitting EP in late April / early May 2023 and the opportunity to engage and provide feedback continues.	N/A - correspondence sent by INPEX	
		24/05/2023	NA	Email	NA	INPEX advised of change of INPEX contact person for purposes of EP consultation. INPEX reiterated to please reach out with any queries that LAC may have about INPEX related activities.	N/A - correspondence sent by INPEX	

		NA	NA	NA	NA	Consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3).	NA	
Western Australia	Nyul Nyul PBC Aboriginal Corporation RNTBC	23/02/2023	NA	Email	Letter C050-IPX-----LE-70013	Introductory email to Nyul Nyul Aboriginal Corporation and the Nyul Nyul people to request opportunity for a in-person meeting to discuss proposed offshore activities.	N/A - correspondence sent by INPEX	
		29/03/2023	NA	Phone Call	NA	Meeting between INPEX and Nyul Nyul AC was scheduled for 29 March, but did not proceed due to weather conditions making unsealed road access inaccessible. The meeting is to be rescheduled at a later date.	N/A - correspondence sent by INPEX	
		12/04/2023	NA	Email	Letter C050-IPX-----LE-70013	INPEX emailed NNAC to follow up on previous communication and enquiry on future opportunities to present EP information to the Nyul Nyul Board, at a time convenient to them.	N/A - correspondence sent by INPEX	
		NA	12/04/2023	Email	NA	Nyul Nyul responds to INPEX, confirming that they will forward the information provided to the Directors for consideration in their next meeting. They inform that they will be in touch, should the Directors have any further questions at this stage.	General correspondence	
		12/04/2023	NA	Email	NA	INPEX thanks Nyul Nyul for their prompt response, noting that we will continue discussions and consultation in due course as agreed.	N/A - correspondence sent by INPEX	
		14/04/2023	NA	Email	NA	INPEX expressed regret that it had been unable to schedule a time to meet with NNAC. INPEX advised that it is intending on submitting EP in late April / early May 2023 and that the opportunity to engage and provide feedback continues.	N/A - correspondence sent by INPEX	
		24/05/2023	NA	Email	NA	INPEX advised of change of INPEX contact person for purposes of EP consultation. INPEX reiterated to please reach out with any queries that NNAC may have about INPEX related activities.	N/A - correspondence sent by INPEX	
		8/06/2023	NA	Email	EP Summary website	INPEX representative followed up previous emails and sought to understand that NNAC had enough information to make an informed decision. If a meeting was not considered necessary please confirm with INPEX alternatively a meeting can be arranged to discuss proposed offshore activities.	N/A - correspondence sent by INPEX	
		20/07/2023	NA	Email	NA	INPEX followed up previous communications and advised that while the EP will be submitted to NOPSEMA in late July 2023 the opportunity to engage and provide feedback remains open. As part of sustainable and long term approach to engagement INPEX would value opportunity to present to the Board at a convenient time.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	Consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3).	NA	
Western Australia	Gogolanyngor Aboriginal Corporation RNTBC	23/02/2023	NA	Letter	Letter C050-IPX----LE-70011	INPEX requests opportunity to undertake consultation with the Gogolanyngor Aboriginal Corporation and the Jabirr Jabirr and Ngumbarl people with regards to proposed offshore activities and EPs. INPEX advised a schedule window where in-person briefings could be provided in Broome.	N/A - correspondence sent by INPEX	
		15/03/2023	NA	Email	Link to EP summary website.	Follow up email sent to stakeholder seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link and QR code to EP specific website, email address and phone number with feedback welcomed. INPEX advised that all correspondence received must be provided to NOPSEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		NA	15/03/2023	Email	NA	GAC responds over email, thanks INPEX for the follow up and requested maps and titles for the project area.	General correspondence	
		15/03/2023	NA	Email	NA	INPEX invited stakeholder to access information requested via the EP summary website link included in previous correspondence.	N/A - correspondence sent by INPEX	
		22/03/2023	NA	Email	NA	INPEX emails Gogolanyngor Aboriginal Corporation, requesting opportunity to meet in person to discuss the previously provided materials and information relating to EPs and proposed activities. INPEX offers to deliver a presentation to the Gogolanyngor board.	N/A - correspondence sent by INPEX	
		14/04/2023	NA	Email	NA	INPEX expressed regret that it had been unable to schedule a time to meet with GAC. INPEX advised that the EP will be lodged shortly. INPEX advised that the opportunity to engage and provide feedback continues.	N/A - correspondence sent by INPEX	
		24/05/2023	NA	Email	NA	INPEX advised of change of INPEX contact person for purposes of EP consultation. INPEX reiterated to please reach out with any queries that GAC may have about INPEX related activities.	N/A - correspondence sent by INPEX	
		8/06/2023	NA	Email	Link to EP summary website	INPEX representative followed up previous emails and asked for confirmation whether GAC would like a meeting with INPEX to discuss proposed offshore activities.	N/A - correspondence sent by INPEX	
		NA	9/06/2023	Email	INPEX Letter C050-IPX----LE-70011 and email sent on 23/2/23	Email from GAC lawyer seeking clarification of what INPEX expects from their client in relation to EP consultation and compensation that is offered.	General correspondence	
		16/06/2023	NA	Email	Link NOPSEMA EP consultation guidelines Link to EP summary website Copies of previous emails sent to GAC on 15/3/23 and 23/3/23	INPEX advised they are seeking to consult with GAC to satisfy requirements of OPPGS Act. Provided links to NOPSEMA EP consultation guidelines, INPEX EP summary website and previous correspondence sent to GAC for context. INPEX advised of circumstances in which reasonable expenses may be reimbursed for participating in meetings with INPEX, should GAC consider this appropriate. INPEX sought opportunity to meet with Board of GAC, or a representative and is seeking a sustainable and long term approach to engagement with Aboriginal coastal communities.	N/A - correspondence sent by INPEX	
		NA	7/08/2023	Email	NA	GAC thanked INPEX for contacting them. As the PBC for the Jabirr Jabirr/ Ngumbarl people, GAC considers that its members will not be affected by that activity. GAC and its members do not wish to be consulted further regarding the matter.	General correspondence	
7/08/2023	NA	Email	NA	INPEX thanked GAC for their confirmation.	N/A - correspondence sent by INPEX			

		NA	NA	NA	NA	Consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3).	NA	
Western Australia	Yawuru Native Title Holders Aboriginal Corporation RNTBC	30/01/2023	NA	Email	NA	INPEX requests opportunity for an in-person meeting to discuss proposed offshore activities and EP.	N/A - correspondence sent by INPEX	
		15/03/2023	NA	Email	INPEX written summary of 285/343 EP for Yawuru board meeting paper	As requested, INPEX provided Yawuru with a board paper, containing details of the proposed offshore activities. The board paper is to be considered by the Yawuru board of directors at their upcoming meeting.	N/A - correspondence sent by INPEX	
		5/04/2023	NA	Email	NA	INPEX emails Yawuru to confirm that the board paper provided previously has been successfully circulated to the Yawuru board, and whether there were any initial questions or concerns raised in relation to the environment plan or proposed activities.	N/A - correspondence sent by INPEX	
		NA	12/04/2023	Email	NA	Yawuru emails INPEX to confirm that they have received our previous communication, and will respond to our enquiry later in the week, once the relevant person over-seeing the communication is available to do so.	General correspondence	
		NA	13/04/2023	Email	NA	Yawuru emails INPEX to confirm that the board welcomes an in-person presentation at their next meeting, which is scheduled to be held on 18 May.	General correspondence	
		NA	14/04/2023	Email	NA	Yawuru emails INPEX to confirm their rates for consultation.	General correspondence	
		NA	3/05/2023	Email	NA	Yawuru advised they are finalising agenda for meeting on 18 May 2023; sought confirmation from INPEX whether they intend to present to the PBC.	General correspondence	
		4/05/2023	NA	Phone Call	NA	INPEX thanked Yawuru for invitation to the Yawuru PBC Board meeting on 18 May however key personnel were unavailable on that date and therefore unable to present. Reiterated that INPEX would appreciate an opportunity to present at the future PBC Board meeting as well as an opportunity to discuss overarching principles of engagement and prospective payment guideline for future discussions.	N/A - correspondence sent by INPEX	
		24/05/2023	NA	Email	NA	INPEX advised of change of INPEX contact person for purposes of EP consultation. INPEX reiterated to please reach out with any queries that Yawuru may have about INPEX related activities.	N/A - correspondence sent by INPEX	
		NA	24/05/2023	Email	NA	Yawuru acknowledged receipt of INPEX email earlier that day.	General correspondence	
		26/06/2023	NA	Email	INPEX written summary of 285/343 EP for Yawuru board meeting paper sent by INPEX 15/3/23	INPEX advised that they are keen to provide a briefing to Yawuru board at next available opportunity and responded to Yawuru's request for payment for INPEX to present EP information.	N/A - correspondence sent by INPEX	
		NA	26/06/2023	Email	NA	Yawuru advised that next Board meeting is scheduled for 23 August and sought confirmation that this date would be suitable for INPEX.	General correspondence	
		26/06/2023	NA	Email	NA	INPEX confirmed their availability to provide a briefing to the Board on 23 August.	N/A - correspondence sent by INPEX	
		20/07/2023	NA	Email	NA	INPEX followed up previous communications and arrangements for payment for INPEX to attend Board meeting in August. Advised that the EP will be submitted to NOPSEMA in late July 2023 and reiterated that if a relevant matter is raised by Yawuru during consultation, it would be managed via INPEXs EP Management of Change process. As part of sustainable and long term approach to engagement INPEX would value opportunity to present to the Board on future activities at a convenient time.	N/A - correspondence sent by INPEX	
		NA	20/07/2023	Email	NA	Yawuru thanked INPEX for update, confirmed meeting arrangements and provided an updated quote for meeting attendance.	General correspondence	
		20/07/2023	NA	Email	NA	INPEX acknowledged receipt of Yawuru email re meeting confirmation and invoice amount.	N/A - correspondence sent by INPEX	
		N/A	17/08/2023	Email	NA	Meeting scheduling logistics.	General correspondence	
		17/08/2023	NA	Email	NA	Meeting scheduling logistics.	N/A - correspondence sent by INPEX	
		N/A	17/08/2023	Email	NA	Meeting scheduling logistics.	General correspondence	
		17/08/2023	NA	Email	NA	Meeting scheduling logistics.	N/A - correspondence sent by INPEX	
		23/08/2023	NA	In person meeting	Meeting minutes PowerPoint Presentation	INPEX provided overview to Yawuru Board of proposed offshore activities based on EP Consultation presentation. Yawuru CEO confirmed there were no issues that would prevent INPEX undertaking it exploration activities. Directors confirmed that Yawuru don't have a cultural connection to activities that far offshore. Yawuru Legal Counsel raised concerns regarding consultation fatigue; INPEX is exploring more effective ways to continue engagement on an ongoing basis including annual briefings.	General correspondence	
		18/09/2023	NA	Email	NA	INPEX thanked Yawuru Board for the opportunity to meet and present on 23 August 2023. INPEX looks forward to continuing relationship with the Yawuru PBC and its members, including ongoing consultation for future proposed offshore activities. INPEX would be pleased to attend a Board Meeting in 2024 to provide an update on future proposed offshore activities and EPs.	N/A - correspondence sent by INPEX	

		NA	NA	NA	NA	Consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3).	NA	
Western Australia	Karajarri Traditional Lands Association (Aboriginal Corporation) RNTBC	8/02/2023	NA	In person meeting	NA	Informal meeting to discuss upcoming EP consultation.	N/A - correspondence sent by INPEX	
		16/02/2023	NA	Email	Letter C050-IPX-----LE-70009	INPEX requests an opportunity for a meeting to discuss proposed offshore activities.	N/A - correspondence sent by INPEX	
		23/02/2023	NA	Phone Call	NA	INPEX spoke with KTLA Chairperson and arranged rescheduling of meeting originally planned in Broome for 9 March to 23 or 24 March.	N/A - correspondence sent by INPEX	
		16/03/2023	NA	In person meeting	PowerPoint presentation, meeting summary notes	INPEX met with representatives from KTLA in INPEX Perth office to discuss the proposed activities. Representatives gave overview of KTLA, including area they manage, they're a member of KLC, manage own ranger programs. KTLA advised they are meeting with NOPSEMA the following week, along with KLC. Land and sea countries are important to them, and dugongs, turtles and whale sharks belong to them. KTLA asked if INPEX had plans to conduct onshore exploration, and advised they work with Environs Kimberley. INPEX responded that there are no permits for onshore exploration in the Kimberley. INPEX advised KTLA that this meeting was an opportunity for them to provide feedback on EP if they have an interest. KTLA noted proposed drilling activity is a long way from their coastline and they will speak with their partners Environs Kimberley and the Board the following week. INPEX advised they would send information that could be shared with the board.	Relevant matter - relevant person has provided information relevant to the activity and/ or their functions, interest or activities.	The important values of land and sea described by KTLA are presented in Section 4 of the EP and impacts/risks are assessed in Sections 7 and 8. INPEX confirmed that they have no permits for onshore exploration in the Kimberley and they have been in contact with other body corporates (identified as relevant persons) suggested by KTLA.
		23/03/2023	NA	Email	PowerPoint presentation slides	INPEX sends a follow up email to KTLA, thanking them for their time meeting in person earlier in March. INPEX provides a soft-copy of the presentation slides.	N/A - correspondence sent by INPEX	
		14/04/2023	NA	Email	NA	INPEX contacted KTLA to inform them the EP will be lodged shortly. INPEX advised that the opportunity to engage and provide feedback continues.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	Consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3).	NA	
Western Australia	Nyangumarta Karajarri Aboriginal Corporation RNTBC overlapping claim	NA	NA	NA	NA	Nyangumarta and Karajarri representatives have been engaged separately regarding INPEX plans. As the Karajarri Traditional Lands Association is the governing representative of the combined claim, refer to KTLA section of this consultation log.	NA	
Western Australia	Yamatji Marpa Aboriginal Corporation	16/02/2023	NA	Email	Letter C050-IPX-----LE-70007	Introductory email to Yamatji Marpa Aboriginal Corporation and Nyangumarta Warrarn People, requesting opportunity to provide in-person briefing regarding proposed offshore activities.	N/A - correspondence sent by INPEX	
		1/03/2023	NA	Email	Letter C050-IPX-----LE-70022	Follow up email to YMAC, as INPEX had not heard back from the previous communications yet.	N/A - correspondence sent by INPEX	
		6/04/2023	NA	SMS	NA	Introductory message to Chairperson of YMAC. INPEX asked if letter previously sent to CEO had been shared. INPEX asked if it was possible to schedule a call to discuss.	N/A - correspondence sent by INPEX	
		14/04/2023	NA	Email	NA	INPEX referred to previous correspondences where INPEX sought to consult with YMAC. Advised that EP would be submitted at end of April /early May. The opportunity to provide feedback remains open and INPEX would welcome opportunity to brief YMAC board as part of long term approach to engagement.	N/A - correspondence sent by INPEX	
		14/04/2023	NA	Email	Letter C050-IPX-----LE-70007	INPEX emails an alternative contact within YMAC, requesting an opportunity to briefing for YMAC board and Nyangumarta Warrarn People regarding proposed offshore activities.	N/A - correspondence sent by INPEX	
		NA	17/04/2023	NA	NA	YMAC provides contact details for General Manager (GM) of Nyangumarta Warrarn Aboriginal Corporation and advises INPEX to contact the GM directly.	N/A - correspondence sent by INPEX	
		NA	19/04/2023	NA	NA	YMAC indicated they were happy to meet with INPEX and a consultation strategy is currently in development for these matters.	General correspondence	
		19/04/2023	NA	Email	NA	INPEX thanked YMAC for contact details for Nyangumarta Warrarn Aboriginal Corporation General Manager. The NWAC GM was cc'ed on the email and an introduction was made.	N/A - correspondence sent by INPEX	
		9/06/2023	NA	Phone Call	NA	INPEX phoned YMAC to arrange meeting in Perth regarding INPEX consultation.	N/A - correspondence sent by INPEX	
		12/06/2023	NA	In person meeting	EP Summary website, including maps	INPEX met with YMAC Deputy Principal Legal Officer. YMAC advised they do not consider themselves to be a relevant person in own right in this instance. YMAC offered to facilitate meeting / presentation to Board of Nyangumarta Warrarn Aboriginal Corporation.	General correspondence	
		NA	NA	NA	NA	Consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3).	NA	
Western Australia	Nyangumarta Warrarn Aboriginal Corporation	15/02/2023	NA	Email	Letter C050-IPX-----LE-70007	Introductory email to YMAC and Nyangumarta Warrarn Aboriginal Corporation requesting opportunity to provide in-person briefing regarding proposed offshore activities.	N/A - correspondence sent by INPEX	
		1/03/2023	NA	Email	Letter C050-IPX-----LE-70022	Follow up email and letter to YMAC and Nyangumarta Warrarn Aboriginal Corporation requesting opportunity to provide in-person briefing on proposed offshore activities.	N/A - correspondence sent by INPEX	
		14/04/2023	NA	Email	NA	Email to YMAC Program Manager, Land & Sea Management with aim to meet with Nyangumarta Warrarn Aboriginal Corporation and YMAC.	N/A - correspondence sent by INPEX	

		17/04/2023	NA	Email	NA	YMAC Program Manager, Land & Sea Management advised that the appropriate contact for Nyangumarta Warrarn Aboriginal Corporation was General Manager - contact details provided.	N/A - correspondence sent by INPEX	
		19/04/2023	NA	Email	NA	INPEX thanked YMAC for introduction and contact details for NWAC General Manager. INPEX asked NWAC General Manager if once they had reviewed letter from INPEX could they please speak on telephone and attempt to schedule a meeting with the NWAC Board.	N/A - correspondence sent by INPEX	
		24/05/2023	NA	Email	NA	INPEX advised of change of INPEX contact person for purposes of EP consultation. INPEX reiterated to please reach out with any queries that NWAC may have about INPEX related activities.	N/A - correspondence sent by INPEX	
		NA	24/05/2023	Email	NA	NWAC acknowledged receipt of INPEX email.	General correspondence	
		12/06/2023	NA	In person meeting	EP Summary website, including maps	INPEX met with YMAC Deputy Principal Legal Officer. YMAC offered to facilitate meeting / presentation to Board of Nyangumarta Warrarn Aboriginal Corporation.	General correspondence	
		NA	12/06/2023	Email	NA	YMAC followed up in person meeting earlier that day and advised they would send the draft consultation strategy documents.	General correspondence	
		14/06/2023	NA	Email	NA	INPEX thanked YMAC for meeting earlier that weekend and asked if copies of the draft consultation strategy document and YMAC's Cultural Advice Guide could be shared. INPEX asked if YMAC was still willing to assist in setting up a meeting with Nyangumarta Warrarn Aboriginal Corporation to discuss INPEX's offshore activities.	N/A - correspondence sent by INPEX	
		NA	19/06/2023	Email	YMAC letter to INPEX Draft Consultation Framework	YMAC provided copy of draft consultation framework document to INPEX.	General correspondence	
		11/07/2023	NA	Email	NA	INPEX followed up Nyangumarta Warrarn Aboriginal Corporation query with YMAC.	N/A - correspondence sent by INPEX	
		NA	13/07/2023	Email	NA	YMAC sought feedback on the draft consultation strategy document previously provided.	General correspondence	
		18/07/2023	NA	Email	NA	Meeting scheduling arrangements to discuss the draft consultation strategy document, current proposed activities and future consultations.	N/A - correspondence sent by INPEX	
		14/09/2023	NA	Email	EP summary website	INPEX followed up previous correspondence with YMAC as representative of NWAC. INPEX considers that sufficient time and reasonable information has been provided in relation to this EP. If new information is received at any time, it will be managed via INPEX's EP MOC process.  INPEX also indicated it is open to discussing reimbursement of reasonably incurred costs for future meetings with NWAC. However the terms of the draft Consultation Framework previously supplied by YMAC are considered outside current requirements for consultation and the document was not able to be agreed on. INPEX also referenced the June 2023 National Summit on Consultation with First Nations People.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	YMAC is the native title representative body for the Nyangumarta Warrarn Aboriginal Corporation RNTBC. Since February 2023 INPEX has sought to engage with YMAC to consult with the Nyangumarta Warrarn Aboriginal Corporation RNTBC.  During this time, INPEX has provided access to sufficient information via newspaper advertisements with EP website QR codes and links (Sunday Times, The West Australian, Pilbara News and North West Telegraph on 1/3/23 and 28/6/23), The Australian on 24/2/23 and 28/6/23 and radio advertisements (6HCR – Radio Mulba) between 3 - 16 July 2023 to enable people in these communities to nominate as relevant persons if they wish.  Consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3).	NA	
Western Australia	Wanparta Aboriginal Corporation RNTBC	16/02/2023	NA	Email	Letter C050-IPX-----LE-70008	INPEX requests opportunity to meet to discuss EP consultation and proposed offshore activities.	N/A - correspondence sent by INPEX	
		NA	21/02/2023	Email	NA	Wanparta confirms receipt of email from INPEX and advises email has been forwarded to WAC Chairperson.	General correspondence	
		22/02/2023	NA	Email	NA	INPEX contacts WAC Chairperson , suggests phone call meeting the following day.	N/A - correspondence sent by INPEX	
		23/02/2023	NA	Phone Call	NA	Phone call to discuss EP consultation and proposed offshore activities.	N/A - correspondence sent by INPEX	
		28/02/2023	NA	Email	Link to EP summary website	INPEX sends a follow-up email to thank Wanparta for their time over the phone. INPEX offers to brief the WAC Board on the environmental plans and proposed offshore activities at a time convenient for them.	N/A - correspondence sent by INPEX	
		14/03/2023	NA	Email	NA	INPEX emailed WAC following up previous email.	N/A - correspondence sent by INPEX	
		14/04/2023	NA	Email	NA	INPEX contacted Wanparta to inform them the EP will be lodged shortly. INPEX advised that the opportunity to engage and provide feedback continues.	N/A - correspondence sent by INPEX	
		13/06/2023	NA	Phone Call	NA	INPEX spoke with Wanparta Chairperson and discussed organising a meeting.	N/A - correspondence sent by INPEX	
		20/07/2023	NA	Email	NA	INPEX followed up previous communications and advised that while the EP will be submitted to NOPSEMA in late July 2023 the opportunity to engage and provide feedback remains open. As part of sustainable and long term approach to engagement INPEX would value opportunity to present to the Board at a convenient time.	N/A - correspondence sent by INPEX	



		NA	21/07/2023	Email	NA	WAC advised a Directors meeting is being convened where INPEX can present on proposed activity and share meeting costs with other Proponents.	General correspondence	
		21/07/2023	NA	Email	NA	INPEX advised of date preference for proposed Directors meeting and noted cost sharing proposal.	N/A - correspondence sent by INPEX	
		NA	25/07/2023	Email	NA	Meeting scheduling arrangements.	General correspondence	
		25/07/2023	NA	Email	NA	Meeting scheduling arrangements.	N/A - correspondence sent by INPEX	
		NA	25/07/2023	Email	NA	Confirmation that meeting will be held in Port Hedland.	General correspondence	
		25/07/2023	NA	Email	NA	Meeting scheduling arrangements.	N/A - correspondence sent by INPEX	
		25/8/23 - 30/8/23	NA	Email	NA	Multiple emails between INPEX and WAC regarding agenda and logistics for meeting scheduled for 31 August.	General correspondence	
		31/08/2023	NA	In person meeting	Meeting minutes PowerPoint Presentation EP summary website	Project presentation at WAC Board Meeting in Port Hedland. INPEX provided overview of proposed offshore activities including oil spill modelling video. WAC acknowledged very remote risk of oil spill occurring and the measures in place to prevent and mitigate a spill. WAC Board advised of Ngarla People's spiritual connection to Sea Country and the importance of totem species. WAC confirmed that there were no issues that would prevent INPEX undertaking exploration activities and committed to providing a written summary of the meeting to INPEX. INPEX and WAC discussed options for future engagement including annual board meeting presentations.	Relevant matter - relevant person has provided or requested information relevant to the activity and/ or their functions, interest or activities.	Section 4.11.5 of the EP was updated to include the importance of the Ngarla People's deep spiritual connection to sea country and their totem species.
		8/09/2023	NA	Email	NA	INPEX sought update from WAC on timing of formal response following consultation on 31/8/23.	N/A - correspondence sent by INPEX	
		11/9/23 - 12/9/23	NA	Email	NA	Multiple administrative emails between INPEX and WAC.	General correspondence	
		NA	12/09/2023	Email	Letter attachment	WAC provided a formal response to INPEX presentation at the WAC Board Meeting in Port Hedland on 31/8/23. WAC reiterated Ngarla People's spiritual connection to Sea Country, the importance of totem species and the protection and management of marine life playing a significant role in the Ngarla People's practise of lore, culture and customs. WAC requested that INPEX attend a board meeting during 2024. WAC requested that INPEX immediately advise should the parameters of the project change.	Relevant matter - relevant person has provided or requested information relevant to the activity and/ or their functions, interest or activities.	Section 4.11.5 of the EP includes a description of the importance of sea country. The requirement for future notifications regarding the project has been included in Table 9-6 of the EP (Section 9.8.3).
		18/09/2023	NA	Email	NA	INPEX thanked WAC for correspondence for sharing information regarding Ngarla lore, culture and customs, particularly in relation to the Ngarla People's deep spiritual connection to sea country which will be incorporated into relevant sections of the EP. INPEX confirmed willingness to attend a Board Meeting in 2024 to provide an update on future proposed offshore activities and EPs. INPEX notes WAC request to provide immediate consultation in the event that the Browse Basin exploration drilling project parameters change from those previously advised by INPEX.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	Consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3).	NA	
Western Australia	Kariyarra Aboriginal Corporation RNTBC	6/07/2023	NA	Email	Letter C050-IPX-----LE-70032 EP summary website	INPEX advised KAC that they are not considered relevant persons for purpose of EP consultation in this instance. INPEX provided maps and information related to oil spill modelling for KAC to decide whether they should be considered relevant persons. INPEX sought a response from KAC and advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		7/07/2023	NA	Email	Letter C050-IPX-----LE-70032 EP summary website	Email sent on 6/7/23 re-sent due to an error in one email address. INPEX advised KAC that they are not considered relevant persons for purpose of EP consultation in this instance. INPEX provided maps and information related to oil spill modelling for KAC to decide whether they should be considered relevant persons. INPEX sought a response from KAC and advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		25/07/2023	NA	Phone Call	NA	Followed up KAC CEO regarding response to INPEX email sent on 6/7/23. KAC CEO advised a response would be provided shortly.	General correspondence	
		31/07/2023	NA	Email	Copy of letter previously sent (Letter C050-IPX-----LE-70034)	INPEX followed up to understand whether KAC considers itself a relevant person. No response received and no relevant matters raised so consultation is considered complete for development of EP. EP will be submitted in early August and the opportunity to provide feedback remains open. Feedback or relevant matters raised during implementation will be managed via INPEXs EP Management of Change process.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	Consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3).	NA	
Western Australia	Ngarluma Aboriginal Corporation	7/07/2023	NA	Email	Letter C050-IPX-----LE-70034 EP summary website	INPEX advised NAC that they are not considered relevant persons for purpose of EP consultation in this instance. INPEX provided maps and information related to oil spill modelling for NAC to decide whether they should be considered relevant persons. INPEX sought a response from NAC and advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		25/07/2023	NA	Phone Call	NA	Phone call to NAC office; no option to leave a message.	N/A - correspondence sent by INPEX	
		31/07/2023	NA	Email	Copy of letter previously sent (Letter C050-IPX-----LE-70034)	INPEX followed up to understand whether NAC considers itself a relevant person. No response received and no relevant matters raised so consultation is considered complete for development of EP. EP will be submitted in early August and the opportunity to provide feedback remains open. Feedback or relevant matters raised during implementation will be managed via INPEXs EP Management of Change process.	N/A - correspondence sent by INPEX	
		NA	31/07/2023	Email	NA	NAC CEO advised that INPEX correspondence has been passed on to NAC lawyers for advice.	General correspondence	

		31/07/2023	NA	Email	NA	Acknowledged receipt of NAC email and offered a meeting to discuss further if needed.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	Consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3).	NA	
Western Australia	Nganhurra Thanardi Garbu Aboriginal Corporation	7/07/2023	NA	Email	C050-IPX-----LE-70035 EP summary website	INPEX advised NTGAC that they are not considered relevant persons for purpose of EP consultation in this instance. INPEX provided maps and information related to oil spill modelling for NTGAC to decide whether they should be considered relevant persons. INPEX sought a response from NTGAC and advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		18/07/2023	NA	Email	Copy of email sent 7/7/23 Map embedded in email	INPEX advised since the previous correspondence was sent, it had been requested by some other Aboriginal Corporations to provide information relating to native title determination area proximity. INPEX provided a bespoke map to NTGAC to assist in making an informed assessment.	N/A - correspondence sent by INPEX	
		NA	20/07/2023	Email	NA	NTGAC representative clarified role of YMAC in relation to NTGAC and requested that INPEX use a specified email address for correspondence.	General correspondence	
		20/07/2023	NA	Email	NA	INPEX sought clarification on whether correspondence should be re-addressed to specified email address.	N/A - correspondence sent by INPEX	
		NA	20/07/2023	Email	NA	NTGAC representative confirmed it was not necessary to re-address and that the information had been forwarded to NTGAC Directors.	General correspondence	
		20/07/2023	NA	Email	NA	INPEX acknowledged clarification provided by NTGAC.	N/A - correspondence sent by INPEX	
		28/07/2023	NA	Phone Call	NA	Phone message left for NTGAC representative.	N/A - correspondence sent by INPEX	
		31/07/2023	NA	Email	NA	INPEX followed up to understand whether NTGAC considers itself a relevant person. No response received and no relevant matters raised so consultation is considered complete for development of EP. EP will be submitted in early August and the opportunity to provide feedback remains open. Feedback or relevant matters raised during implementation will be managed via INPEXs EP Management of Change process.	N/A - correspondence sent by INPEX	
		NA	1/08/2023	Email	NA	NTGAC representative phoned INPEX to follow up previous correspondence, advised that they had been on leave so catching up. INPEX gave overview of why they are consulting, that it was a matter for NGTAC to decide if they were relevant and gave indication of comparative risk level compared to others in closer proximity. NTGAC representative will review documentation and respond to INPEX. INPEX advised they were proceeding with lodging as planned, would take the view that NGTAC were not relevant persons, should NGTAC need further information or to ask questions to please call back. Discussed YMAC consultation agreement and that INPEX was in discussion with YMAC for a group much further north where something like that might be relevant.	General correspondence	
		NA	7/08/2023	Email	NA	NTGAC advised they did not consider NTGAC a relevant person for this EP. NTGAC advised that should INPEX have future work where NTGAC is a relevant person then NTGAC would like to progress consultation in line with YMACs draft consultation framework. Requested indication for planning purposes of future INPEX activities which may be in proximity to NTGAC.	General correspondence	
		7/08/2023	NA	Email	NA	INPEX thanked NTGAC for confirmation and advised that extend of EMBA for future EPs is being established. INPEX will contact NTGAC as requested in late Q3/Q4 2023 either way.	N/A - correspondence sent by INPEX	
		NA	7/08/2023	Email	NA	NTGAC acknowledged receipt of INPEX email.	General correspondence	
		NA	NA	NA	NA	Consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3).	NA	
Western Australia	Buurabalayji Thalanyji Aboriginal Corporation RNTBC	7/07/2023	NA	Email	C050-IPX-----LE-70036 EP summary website	INPEX advised BTAC that they are not considered relevant persons for purpose of EP consultation in this instance. INPEX provided maps and information related to oil spill modelling for BTAC to decide whether they should be considered relevant persons. INPEX sought a response from BTAC and advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		NA	12/07/2023	Email	NA	Request for bespoke map showing EMBA in relation to the Thalanyji native title determination area and adjoining offshore area and advise whether INPEX has other activities the subject of environment plans that may require consultation with BTAC.	Not a relevant matter	
		13/07/2023	NA	Email	Map embedded in email	Map provided to BTAC as requested, and confirmation that the other EPs under assessment with NOPSEMA are in the Bonaparte Basin, offshore Northern Territory.	N/A - correspondence sent by INPEX	
		25/07/2023	NA	Phone Call	NA	INPEX spoke with BTAC representative who advised that a response would be provided shortly.	General correspondence	
		31/07/2023	NA	Email	NA	INPEX followed up to understand whether BTAC considers itself a relevant person. No response received and no relevant matters raised so consultation is considered complete for development of EP. EP will be submitted in early August and the opportunity to provide feedback remains open. Feedback or relevant matters raised during implementation will be managed via INPEXs EP Management of Change process.	N/A - correspondence sent by INPEX	
		NA	7/08/2023	Email	NA	BTAC advised they are working to provide a response to INPEX in the next few days.	General correspondence	
		7/08/2023	NA	Email	NA	INPEX acknowledged receipt of BTAC email.	N/A - correspondence sent by INPEX	

		NA	NA	NA	NA	Consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3).	NA	
Western Australia	Murujuga Aboriginal Corporation	7/07/2023	NA	Email	C050-IPX-----LE-70037 EP summary website	INPEX advised MAC that they are not considered relevant persons for purpose of EP consultation in this instance. INPEX provided maps and information related to oil spill modelling for MAC to decide whether they should be considered relevant persons. INPEX sought a response from MAC and advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		NA	17/07/2023	Email	NA	MAC advised they do not consider themselves a relevant person in this instance.	General correspondence	
		17/07/2023	NA	Email	NA	INPEX thanked MAC for prompt reply and advised future offshore activities may require consultation in which case INPEX would contact MAC.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	Consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3).	NA	
Western Australia	Wirrawandi Aboriginal Corporation	7/07/2023	NA	Email	C050-IPX-----LE-70038 EP summary website	INPEX advised WAC that they are not considered relevant persons for purpose of EP consultation in this instance. INPEX provided maps and information related to oil spill modelling for WAC to decide whether they should be considered relevant persons. INPEX sought a response from WAC and advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		NA	11/07/2023	Email	NA	Request for bespoke map showing EMBA in relation to the Yaburara and Mardudhunera people native title determination area and adjoining offshore area and advise whether INPEX has other activities the subject of environment plans that may require consultation with WAC.	Not a relevant matter	
		13/07/2023	NA	Email	Map embedded in email	Map provided to WAC as requested, and confirmation that the other EPs under assessment with NOSPEMA are in the Bonaparte Basin, offshore Northern Territory.	N/A - correspondence sent by INPEX	
		NA	25/07/2023	NA	Letter 202307251314231	WAC advised that they do not consider themselves to be a relevant person or organisation in this instance. WAC requested that INPEX seek WAC's views should EMBA modelling change or for future activities closer to the coast or the YM determination area.	Not a relevant matter	
		25/07/2023	NA	Email	NA	INPEX thanked WAC for correspondence and confirmed that INPEX would be in contact regarding future activities as requested by WAC.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	Consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3).	NA	
Commonwealth	Third party correspondence sent to NOSPEMA	NA	8/08/2023	Email	Letter dated 19/7/23	NOSPEMA forwarded to INPEX a letter addressed to NOSPEMA from the Registered Native Title Body Corporates for Nyikina Mangala, Boorroola Moorool Moorool, Bardi and Jawi and Mayala native title determination areas, received by NOSPEMA via email 19 July 2023. The letter advised that for the purposes of free, prior and informed consent, a culturally appropriate consultation process is required to ensure that native title holders can understand, mitigate and manage impacts to social and cultural values. Collective engagement is required with neighbouring cultural blocks and full disclosure of transparent information is required to ensure free, prior and informed decision making. Financial support is required to undertake consultation with members and native title holders. NOSPEMA support was requested to undertake a culturally appropriate consultation process and to facilitate positive working relations. The signatories advised that they can prepare a consultation and resourcing protocol.	N/A - correspondence sent to NOSPEMA	No changes have been made to the EP.
		NA	NA	NA	NA	INPEX note regarding third party correspondence sent to NOSPEMA:  INPEX have consulted with the Registered Native Title Body Corporates: Walalakoo PBC (Nyikina Mangala, Boorroola Moorool Moorool), Bardi Jawi Niimidiman PBC and Mayala Inninalang PBC. Refer to applicable sections of this log.  An agreed outcome of the Summit convened by NOSPEMA in June 2023 is for First Nation organisations and industry to work collaboratively on a consultation framework. INPEX is committed to actively participating in this process to achieve, among other outcomes, a long-term sustainable model for engagement. Subject to the finalisation of the terms, INPEX has committed to financially contribute to the arrangements for a second Summit which INPEX understands will be held in the coming months.  INPEX is open to reimbursement of reasonable costs incurred during EP consultation. INPEX has indicated its preference not to enter into separate consultation protocols at this time.  The letter makes reference to a process that is not aligned with the OPPGS Environment Regulations and NOSPEMA's 'Consultation on Offshore Petroleum Plans' bulletin; it is noted that titleholders are not required by law to obtain agreement or consent from relevant persons for their offshore petroleum activities to proceed.	NA	
Businesses Northern Territory	Alure Fishing Charters NT	16/01/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		14/02/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	

		3/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
Northern Territory	Anglers Advantage Fishing Charters Darwin	16/01/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		14/02/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		3/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
Northern Territory	Angler's Choice Fishing Safari	16/01/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		14/02/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		3/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
Northern Territory	Arafura Bluewater Charters	16/01/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		14/02/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		3/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
Northern Territory	Barra Or Blue Fishing Charters	16/01/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	

		14/02/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		3/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
Northern Territory	Cullen Bay Fishing Charters	16/01/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		14/02/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		3/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
Northern Territory	Darwin Barra Fishing Tours	16/01/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		14/02/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		3/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
Northern Territory	Darwin Fishseeker Charters	16/01/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		14/02/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		3/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	

Northern Territory	Darwin Harbour Fishing Charters	16/01/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		14/02/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		3/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
Northern Territory	Darwin Red Devil Fishing Charters	16/01/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		14/02/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		3/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
Northern Territory	DNA Barra Fishing, Darwin	16/01/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		14/02/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		3/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
Northern Territory	Dundee Beach Fishing Charters	16/01/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		14/02/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		3/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	

		NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
Northern Territory	Equinox Fishing Charters	16/01/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		14/02/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		3/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
Northern Territory	Estuary Escapes Fishing Charters	16/01/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		14/02/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		3/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
Northern Territory	Fish The Top End	16/01/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		14/02/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		3/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
Northern Territory	FNA Sports Fishing	16/01/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		14/02/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	

		3/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
Northern Territory	Humberg Fishing	16/01/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		14/02/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		3/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
Northern Territory	Munupi Wilderness Lodge	NA	NA	NA	N/A	Throughout 2023 INPEX has engaged with the Tiwi Land Council (TLC). Refer to TLC section of this log.	NA	
		31/05/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. Consultation with Tiwi Land Council is underway. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 12 July 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		28/06/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed.	N/A - correspondence sent by INPEX	
		10/07/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 17 July 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	NA	NA	N/A	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	N/A - correspondence sent by INPEX	
Northern Territory	Obsession Fishing Safaris	16/01/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		14/02/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		3/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	



Northern Territory	Offshore Boats - Darwin Reef & Sport Fishing Charters	16/01/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		14/02/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		3/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
Northern Territory	Reel Screamin Barra Fishing	16/01/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		14/02/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		3/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
Northern Territory	Shoal Bay Sportfishing Tours	16/01/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		14/02/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		3/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
Northern Territory	Spring Tide Safaris	16/01/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		14/02/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		3/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	

		NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
Northern Territory	Territory Guided Fishing	16/01/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		14/02/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		3/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
Northern Territory	Tiwi Island Adventures - fishing	NA	NA	NA	NA	Throughout 2023 INPEX has engaged with the Tiwi Land Council (TLC). Refer to TLC section of this log.	NA	
		31/05/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. Consultation with Tiwi Land Council is underway. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 12 July 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	yes
		28/06/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed.	N/A - correspondence sent by INPEX	yes
		10/07/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 17 July 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	yes
		NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
Northern Territory	Top End Barra Fishing Tours	16/01/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		14/02/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		3/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	

		NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
Northern Territory	Top End Seafaris	16/01/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		14/02/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		3/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
Northern Territory	Tourism Top End Visitor Information Centre	16/01/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		14/02/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		3/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
Northern Territory	Vision Sport Fishing, Darwin Barra Fishing Charters	16/01/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		14/02/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		3/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
Northern Territory	Yknot Fishing Charters	16/01/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		14/02/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	

		3/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
Northern Territory	Sea Darwin	16/01/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		14/02/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		3/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
Northern Territory	Darwin Harbour Cruises	16/01/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		14/02/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		3/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
Northern Territory	Sail Darwin	16/01/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		14/02/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		3/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
Northern Territory	Streeter Cruises	16/01/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	

		14/02/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		3/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
Western Australia	Absolute Ocean Charters	3/02/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		NA	3/02/2023	Email	N/A	Automated reply - confirmation of receipt.	General correspondence	
		28/03/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		4/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
Western Australia	Berkeley River Lodge	3/02/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		28/03/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		4/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
Western Australia	Broome Adventure Company - Turtle Kayak	3/02/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		28/03/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		4/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	

Western Australia	Broome Billfish Charters	3/02/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		28/03/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		4/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
Western Australia	Broome Bird Observatory	3/02/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		28/03/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		4/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
Western Australia	Broome Coast Charters	3/02/2023	NA	Email	N/A	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		28/03/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		4/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
Western Australia	Broome Visitors Centre	3/02/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		NA	22/02/2023	Email	NA	Broome Visitors Centre advised they have provided feedback via Plan Engage website.	General correspondence	
		NA	22/02/2023	Website	NA	Visit Broome provides feedback via the EP Summary website, stating that they are interested in the activity based on the fact that some of their members may have overlapping interest. Visitors Centre states that as they have a strong existing relationship with INPEX, they will continue to support the activity and distribute information to their members as required, and will liaise with INPEX if any questions are raised as has always been done previously.	General correspondence	

		NA	NA	NA	NA	Consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3).	NA	
Western Australia	Eco Beach Resort	3/02/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		28/03/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		4/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
Western Australia	Eighty Mile Beach Caravan Park	3/02/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		28/03/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		4/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
Western Australia	Faraway Bay Wilderness Retreat	3/02/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		28/03/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		4/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
Western Australia	Goobaragin Eco Retreat, Dampier Peninsula	24/02/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		6/04/2023	NA	SMS	NA	INPEX contacted stakeholder asking them to make contact to discuss proposed activities once they have returned from leave and have capacity.	N/A - correspondence sent by INPEX	
		NA	7/04/2023	SMS	NA	Stakeholder apologised for delay in responding and proposed a meeting time.	General correspondence	

		11/04/2023	NA	SMS	NA	INPEX thanked stakeholder for response and suggested they make a time to meet once the stakeholder is back from leave.	N/A - correspondence sent by INPEX	
		20/07/2023	NA	Email	NA	INPEX advised they understood that Goombaragin Eco retreat is currently closed for family reasons. INPEX advised the EP will be submitted to NOPSEMA in late July 2023 and the opportunity to engage and provide feedback remains open. As part of sustainable and long term approach to engagement INPEX may make contact again regarding future offshore activities.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	Consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3).	NA	
Western Australia	Gumbanan Wilderness Retreat	24/02/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		5/04/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
Western Australia	Kimberley Coastal Camp	3/02/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		28/03/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		4/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
Western Australia	Kimberley Pearl Charters	3/02/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		28/03/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		4/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
Western Australia	Kuri Bay Sport Fishing Tours	3/02/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	



		28/03/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		4/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
Western Australia	Mercedes Cove Exclusive Coastal Retreat	24/02/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		NA	6/03/2023	Email	NA	Stakeholder thanked INPEX for previous email and indicated a scheduling window to meet in Broome in person that week.	General correspondence	
		6/03/2023	NA	Phone Call	NA	INPEX attempted to schedule a meeting with stakeholder during Broome visit.	N/A - correspondence sent by INPEX	
		7/03/2023	NA	Phone Call	NA	INPEX attempted to schedule a meeting with stakeholder during Broome visit.	N/A - correspondence sent by INPEX	
		22/03/2023	NA	SMS	NA	INPEX contacted stakeholder to advise of an upcoming visit to Broome 28 - 31 March, asked if they had availability to meet to discuss the proposed activities.	N/A - correspondence sent by INPEX	
		NA	22/03/2023	SMS	NA	Stakeholder arranged a suitable meeting time with INPEX.	General correspondence	
		30/03/2023	NA	In person meeting	PowerPoint presentation	INPEX met with stakeholder representatives in Broome. INPEX provided overview of proposed offshore activities. Shared the PowerPoint Presentation about Environment Plans, talked through the planned activities, shared the QR code to enable access to full or summary report. No relevant concerns raised other than a vessel conducting seismic studies nearby stakeholder in early 2023 which INPEX confirmed wasn't INPEX. Meeting closed out with INPEX asking stakeholders to consider if they see themselves as relevant persons, if yes, then how often and what means would they like INPEX to inform them of future activities?	Not a relevant matter	
		18/04/2023	NA	Email	NA	INPEX thanked Mercedes Cove representatives for their time during meeting on 30/3/23. INPEX advised that it is intending on submitting EP in late April / early May 2023 and that the opportunity to engage and provide feedback continues.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	Consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3).	NA	
Western Australia	Middle Lagoon (Nature's Hideaway)	24/02/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		5/04/2023	NA	Email	NA	Follow up email to stakeholder offering a phone or in person meeting to discuss any queries the stakeholder may have regarding the information previously sent.	N/A - correspondence sent by INPEX	
		20/07/2023	NA	Email	NA	INPEX advised the EP will be submitted to NOSPEMA in late July 2023 and the opportunity to engage and provide feedback remains open. As part of sustainable and long term approach to engagement INPEX may make contact again regarding future offshore activities.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	Consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3).	NA	
Western Australia	One Arm Point Trochus Hatchery and Aquarium	NA	NA	NA	NA	Engagement with this relevant person is via Ardyaloon Incorporated. Consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3).	NA	
Western Australia	Pender Bay Escape	3/02/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		28/03/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	

		4/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
Western Australia	Phat Time Fishing	3/02/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		28/03/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		4/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
Western Australia	Reel Teaser Fishing Adventures	3/02/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		NA	3/02/2023	Email	N/A	Automated reply - confirmation of receipt.	General correspondence	
		28/03/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		4/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
Western Australia	Slick Fishing Charters	3/02/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		28/03/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		4/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	

		NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
Western Australia	Smithy's Seaside Adventures, Dampier Peninsula	3/02/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		28/03/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		4/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
Western Australia	Sundowner Camel Tours	3/02/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		28/03/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		4/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
Western Australia	West Kimberley Fishing Tours	3/02/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		28/03/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		4/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	4/04/2023	Email	NA	West Kimberley Fishing Tours emails INPEX to confirm that they have no comments in relation to environment plans or proposed activities. Consultation considered closed for this relevant person.	General correspondence	
		NA	NA	NA	NA	Consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3).	NA	
Western Australia	Pilbara Tours	13/02/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	

		22/03/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		4/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
Western Australia	Port Hedland Visitors Centre	13/02/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		22/03/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		4/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
Western Australia	Port Hedland Chamber of Commerce and Industry	4/04/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		13/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
Western Australia	Broome Chamber of Commerce and Industry (BCCI)	13/02/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		22/03/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		4/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	

		NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
Northern Territory	Chamber of Commerce NT (CCNT)	13/01/2023	NA	Email	N/A	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		13/02/2023	NA	Email	N/A	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		NA	14/02/2023	Website	N/A	CCNT stated that the project represents an opportunity for NT businesses to benefit from direct or indirect long term economic opportunities. CCNT advised they are comfortable with EP information provided to date and only wish to be advised of any changes in the future.	Relevant matter - relevant person has provided or requested information relevant to the activity and/ or their functions, interest or activities.	The requirement for future notifications regarding the project has been included in Table 9-6 of the EP (Section 9.8.3).
		22/02/2023	NA	Email	NA	INPEX thanked CCNT for confirming they have no comment to proposed activities and advised that on this basis consultation would be closed at this time.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	Consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3).	NA	
Western Australia	East Kimberley Chamber of Commerce and Industry	8/02/2023	NA	Phone Call	NA	Introductory phone call.	N/A - correspondence sent by INPEX	
		8/02/2023	NA	Email	NA	INPEX emails summary of a previous phone call.	N/A - correspondence sent by INPEX	
		13/02/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		22/03/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		4/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
Western Australia	Derby Chamber of Commerce and Industry	21/02/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		22/03/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		3/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	

		NA	4/04/2023	Email	NA	DCCI advises they have circulated the information provided to its committee and members.	General correspondence	
		13/04/2023	NA	Email	NA	INPEX emails DCCI to thank them for their response, and offering an opportunity to take further questions or comments relating to the information previously provided.	N/A - correspondence sent by INPEX	
		31/05/2023	NA	Email	NA	INPEX asks if DCCI members or committee if they have any feedback on proposed activities, or if further information is required. INPEX advised that if no response is received by 14 June then INPEX would note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	Consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3).	NA	
Western Australia	Kununurra Visitors Centre	21/02/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		22/03/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		4/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
Northern Territory	Tiwi Resources Pty Ltd Limited	NA	NA	NA	NA	Throughout 2023 INPEX has engaged with the Tiwi Land Council (TLC). Refer to TLC section of this log.	NA	
		31/05/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. Consultation with Tiwi Land Council is underway. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 12 July 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		28/06/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed.	N/A - correspondence sent by INPEX	
		10/07/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 17 July 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
Northern Territory	Tiwi Enterprises Ltd	NA	NA	NA	NA	Throughout 2023 INPEX has engaged with the Tiwi Land Council (TLC). Refer to TLC section of this log.	NA	
		31/05/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. Consultation with Tiwi Land Council is underway. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 12 July 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	yes
		28/06/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed.	N/A - correspondence sent by INPEX	yes
		10/07/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 17 July 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	yes

		NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
Northern Territory	Tiwi Island Retreat	NA	NA	NA	NA	Throughout 2023 INPEX has engaged with the Tiwi Land Council (TLC). Refer to TLC section of this log.	NA	
		31/05/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. Consultation with Tiwi Land Council is underway. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 12 July 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		28/06/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed.	N/A - correspondence sent by INPEX	
		10/07/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 17 July 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
Northern Territory	Port Melville AusGroup	NA	NA	NA	NA	Throughout 2023 INPEX has engaged with the Tiwi Land Council (TLC). Refer to TLC section of this log.	NA	
		31/05/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. Consultation with Tiwi Land Council is underway. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 12 July 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		28/06/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed.	N/A - correspondence sent by INPEX	
		10/07/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 17 July 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
Northern Territory	Tiwi Plantations Corporation	NA	NA	NA	NA	Throughout 2023 INPEX has engaged with the Tiwi Land Council (TLC). Refer to TLC section of this log.	NA	
		31/05/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. Consultation with Tiwi Land Council is underway. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 12 July 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		28/06/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed.	N/A - correspondence sent by INPEX	
		10/07/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 17 July 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	

Western Australia	3D Oil Limited	13/01/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		13/02/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		4/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
Western Australia	Beach Energy Limited	13/01/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		13/02/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		4/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
Western Australia	Bengal Energy Ltd	13/01/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		13/02/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		4/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
Western Australia	BP Australia Pty. Ltd	13/01/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		13/02/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	



		4/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
Western Australia	Carnarvon Energy Limited	13/01/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		13/02/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		4/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
Western Australia	Chevron Australia Pty Ltd	13/01/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		NA	13/01/2023	Email	NA	Response received from Chevron Australia, noting that the link provided in the email had not worked for the person who opened the email on their end.	General correspondence	
		19/01/2023	NA	Email	N/A	INPEX responds to Chevron, requesting them to check the link again to ensure they have been able to access the relevant materials provided. INPEX requests Chevron let them know if there are any further issues.	N/A - correspondence sent by INPEX	
		13/02/2023	NA	Email	Link to EP summary website.	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		NA	10/03/2023	Email	NA	Email received from Chevron Australia Pty Ltd, confirming they have no feedback on the proposed activities and environment plan.	General correspondence	
		NA	NA	NA	NA	Consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3).	NA	
Western Australia	CNOOC NWS Private Limited - joint venture participant	13/01/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		13/02/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		4/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	

Western Australia	Eni Australia Limited	13/01/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		13/02/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		4/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
Western Australia	EOG Resources Pty Ltd	13/01/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		2/02/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email (sent again to an alternative email as informed by the relevant person) to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		13/02/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		4/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
Western Australia	FinderEnergy Pty Limited	13/01/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		13/02/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		4/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	4/04/2024	Email	NA	Finder Energy emails INPEX to confirm that they have no comments in relation to the proposed environment plan. Consultation considered closed for this relevant person.	General correspondence	
		NA	NA	NA	NA	Consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3).	NA	
Western Australia	Fugro Exploration Pty Ltd	13/01/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	

		13/02/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		4/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
Western Australia	Jadestone Energy (Australia) Pty Ltd	13/01/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		13/02/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		4/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	4/04/2023	Website	NA	Jadestone Energy Australia provides feedback via the EP Summary website, confirming that they have no comments in relation to proposed activities, nor do they require any further information. Consultation is closed.	General correspondence	
		NA	NA	NA	NA	Consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3).	NA	
Western Australia	Japan Australia LNG (MIMI) Pty. Ltd	13/01/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		13/02/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		4/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	This relevant person was contacted by email via the Operating JV email address for the Joint Venture entity. In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
Western Australia	JERA Pty Ltd	13/01/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		13/02/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		4/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	This relevant person was contacted by email via the Operating JV email address for the Joint Venture entity. In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	

Western Australia	JX Nippon Oil and Gas Exploration (Australia) Pty Ltd	13/01/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		13/02/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		4/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	This relevant person was contacted by email via the Operating JV email address for the Joint Venture entity. In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
Western Australia	Kansai Electric Power Australia Pty Ltd	13/01/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		13/02/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		4/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	This relevant person was contacted by email via the Operating JV email address for the Joint Venture entity. In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
Western Australia	Kato Pty Ltd	13/01/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		13/02/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		4/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	This relevant person was contacted by email via the Operating JV email address for the Joint Venture entity. In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
Western Australia	Kufpec (Perth) Pty Ltd	2/02/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		22/03/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	

		4/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
Western Australia	Kyushu Electric Wheatstone Pty Ltd	13/01/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		13/02/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		4/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	This relevant person was contacted by email via the Operating JV email address for the Joint Venture entity. In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
Western Australia	Melbana Energy AC/P70 Pty Ltd	13/01/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		13/02/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		4/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
Western Australia	MEO International Pty Ltd	13/01/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		13/02/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		4/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	

Western Australia	Mitsui E&P Australia Pty Ltd	13/01/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		13/02/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		4/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
Western Australia	Mobil Australia Resources Company Pty Limited	2/02/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		22/03/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		4/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
Western Australia	Neptune Energy Bonaparte Pty Limited	13/01/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		13/02/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		4/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
Western Australia	OMV Australia Pty Ltd	2/02/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	

		13/02/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		4/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
Western Australia	OPIC Australia Pty. Limited	13/01/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		13/02/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		4/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	This relevant person was contacted by email via the Operating JV email address for the Joint Venture entity. In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
Western Australia	Origin Energy Browse Pty Ltd	13/01/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		13/02/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		4/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	This relevant person was contacted by email via the Operating JV email address for the Joint Venture entity. In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
Western Australia	Osaka Gas Pty Ltd	13/01/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		13/02/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		4/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	

		NA	NA	NA	NA	This relevant person was contacted by email via the Operating JV email address for the Joint Venture entity. In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
Western Australia	Pathfinder Energy Pty Ltd	13/01/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		13/02/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		4/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
Western Australia	PE Wheatstone Pty Ltd	13/01/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		13/02/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		4/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	This relevant person was contacted by email via the Operating JV email address for the Joint Venture entity. In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
Western Australia	PetroChina International Investment (Australia) Pty Ltd	13/01/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		13/02/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		4/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	



Western Australia	Petronas Carigali (Australia) Pty Ltd	13/01/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		13/02/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		4/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
Western Australia	PTTEP Australasia Pty Ltd	2/02/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		NA	23/02/2023	Email	N/A	Response received from relevant person confirming no comments in relation to the proposed activities referred to in the links provided in the consultation email.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	Consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3).	NA	
Western Australia	Rouge Rock Pty Ltd	13/01/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		13/02/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		4/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	This relevant person was contacted by email via the Operating JV email address for the Joint Venture entity. In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
Western Australia	Santos WA PVG PTY Ltd.	13/01/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		13/02/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		4/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	

		NA	NA	NA	NA	This relevant person was contacted by email via the Operating JV email address for the Joint Venture entity. In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
Western Australia	SapuraOMV Upstream (Western Australia) Pty Ltd	13/01/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		13/02/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		4/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	This relevant person was contacted by email via the Operating JV email address for the Joint Venture entity. In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
Western Australia	SK E&S Australia Pty Ltd	13/01/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		13/02/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		4/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	This relevant person was contacted by email via the Operating JV email address for the Joint Venture entity. In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
Western Australia	Timor Gap Greater Sunrise RL Unipessoal, LDA	13/01/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		13/02/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		4/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	

		NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
Western Australia	Toho Gas Ichthys Development Pty Ltd	13/01/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		13/02/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		4/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	This relevant person was contacted by email via the Operating JV email address for the Joint Venture entity. In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
Western Australia	Total E&P Australia	13/01/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		13/02/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		4/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	This relevant person was contacted by email via the Operating JV email address for the Joint Venture entity. In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
Western Australia	Vermilion Oil & Gas Australia Pty Ltd	13/01/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		13/02/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		4/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	

Western Australia	Western Gas (518 P) Pty Ltd	13/01/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX		
		13/02/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX		
		4/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX		
		NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA		
Western Australia	Shell Australia Pty Ltd	NA	NA	NA	NA	Consulted in 2002 - previous consultation was sufficient.	NA		
Western Australia	Woodside Energy	NA	NA	NA	NA	Consulted in 2002 - previous consultation was sufficient.	NA		
Western Australia	IPB Petroleum Pty Ltd	NA	NA	NA	NA	Consulted in 2002 - previous consultation was sufficient.	NA		
eNGOs									
Western Australia	Conservation Council of WA (CCWA)	19/01/2023	NA	Email	Link to EP summary website.	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX		
		14/02/2023	NA	Email	Link to EP summary website.	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities for WA-285 & WA-343 Exploration Drilling. Provided link to EP website and phone number, with feedback requested by 1 March 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX		
		NA	16/02/2023	Email	NA	CCWA advised INPEX of their previous submission on the INPEX Exploration Drilling WA-285-P & WA-343-P Environment Plan to NOSPEMA where CCWA alerted NOSPEMA to inadequacies of the consultative claims and processes applied by INPEX. CCWA requested a meeting with INPEX during March 2023	Relevant matter - relevant person has provided or requested information relevant to the activity and/ or their functions, interest or activities.	INPEX confirmed that previous communications between CCWA & INPEX in 2022 were related to the public comment period associated with other unrelated EPs that INPEX is currently developing. INPEX informed CCWA that they had since been identified as a relevant person in 2023 in relation to the activity proposed in this EP. No changes were made to the EP as a result of this feedback from this relevant person.	
		17/02/2023	NA	Email	Copy of CCWA letter to NOSPEMA re Bonaparte Basin Exploration Drilling and 3D Marine Seismic Survey EP dated 6/10/22 (send during public comment period)	INPEX thanked CCWA for their email dated 16/2/23. INPEX advised CCWA that INPEX did not receive a submission during the public comment period for the EP in 2022 (13 May - 13 June 2022). INPEX noted that a submission was received from CCWA on the Bonaparte Basin exploration EPs (seismic and exploration drilling) during public comment period on 6 October 2022, and attached a copy of the submission for CCWA reference. INPEX advised of references in the CCWA Bonaparte Basin submission to the WA-285-P & WA-343-P EP which was not subject to public comment at that time. Nonetheless, INPEX did respond to CCWA concerns raised regarding indirect and direct impacts in to relation marine protected areas and communities on 19 January 2023. INPEX advised that following the submission from CCWA they were identified as a relevant person for WA-285-P & WA-343-P EP, and were sent consultation materials for that EP on 19 January 2023 and followed up on 14 February 2023. INPEX offered to meet with CCWA to discuss all INPEX EPs at a mutually agreeable time to be determined.	N/A - correspondence sent by INPEX		
		13/03/2023	NA	Email	NA	INPEX proposed a meeting time with CCWA.	N/A - correspondence sent by INPEX		
		15/03/2023	NA	Email	NA	CCWA confirms availability for meeting.	General correspondence		
		16/03/2023	NA	Email	NA	INPEX confirms meeting and INPEX attendees	N/A - correspondence sent by INPEX		
		20/03/2023	NA	Phone Call	NA	CCWA requests to reschedule meeting.	General correspondence		
		20/03/2023	NA	Email	NA	INPEX proposes new meeting time.	N/A - correspondence sent by INPEX		
		27/03/2023	NA	In person meeting	Meeting minutes.	Meeting held at INPEX Perth office with CCWA representatives and INPEX. In relation to the proposed exploration drilling in WA-285-P and WA-343-P the following items/questions were discussed: - Areas of concern for CCWA noted as Browse Island and other nearby receptors. - emissions - Concerns about PFAS in fire fighting foam - INPEX's consultation process - potential data gaps in biological knowledge/studies - GHG reporting INPEX provided information regarding these items.	Relevant matter - relevant person has provided or requested information relevant to the activity and/ or their functions, interest or activities.	No changes were made to the EP as a direct result of this feedback from this relevant person. However, in response to feedback in relation to INPEX's consultation methodology, a new and updated consultation methodology has been developed by INPEX in early 2023 which aligns the approach to NOSPEMA published guidance. This is presented in Appendix B.2 of the EP.	

		27/03/2023	NA	Email	NA	INPEX thanked CCWA for meeting with INPEX. Confirmed that contact details for CCWA would be updated to include direct email addresses and links to EP summary websites were shared. INPEX advised that it considered appropriate responses had been made to matters previously raised by CCWA by email on 6 October 2022. If CCWA has any further matters to raise on EPs discussed today INPEX welcomed feedback as EPs will be submitted end of April 2023.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	Consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3).	NA	
Western Australia	Environs Kimberley	19/01/2023	NA	Email	Link to EP summary website.	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		9/02/2023	NA	In person meeting	N/A	Face-to-face consultation at a drop-in information session at Broome Visitors Centre. Representatives from EnvironsKimberley attended. INPEX agreed to re-send original correspondence sent to EK on 19 January 2023.	General correspondence	
		13/02/2023	NA	Email	Link to EP summary website.	INPEX thanked Environs Kimberley representative that attended the INPEX information session at the Broome Visitors Centre on Thursday 9 February 2023. The email included the previous correspondence sent to EK on 19 January 2023 which included the link to the EP website. INPEX welcomed any feedback from EK. *NB: this email was sent to 3 EK representatives individually but logged here as one entry.	N/A - correspondence sent by INPEX	
		14/02/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		3/04/2023	NA	Email	Link to EP summary website.	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	Consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3).	NA	
Western Australia	The Kimberley - Like Nowhere Else	19/01/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		14/02/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		3/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
Western Australia	Roebuck Bay Working Group	19/01/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		14/02/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	

		3/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
Western Australia	Save the Kimberley	19/01/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		14/02/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		3/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
Northern Territory	The Environment Centre NT (ECNT)	19/01/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		NA	14/02/2023	Email	N/A	ECNT requests a meeting to discuss EP.	General correspondence	
		NA	15/02/2023	Email	N/A	ECNT requests for consultation on the Browse Basin Drilling program to take place at the same time as Bonaparte CCS Consultation meeting.	General correspondence	
		21/02/2023		Email	N/A	INPEX responds to a meeting request with a proposed meeting time.	N/A - correspondence sent by INPEX	
		NA	21/02/2023	Email	N/A	ECNT responds to INPEX's proposed meeting time advising unavailability. A new time is suggested by ECNT.	General correspondence	
		NA	21/02/2023	Email	N/A	ECNT emails INPEX again confirming they are available at the originally proposed time after all.	General correspondence	
		21/02/2023	NA	Email	N/A	Meeting scheduling arrangements.	N/A - correspondence sent by INPEX	
		NA	22/02/2023	Email	NA	Meeting scheduling arrangements. Included request to INPEX to discuss CCS plans and how they will work.	General correspondence	
		22/02/2023	NA	Email	Not related to this EP - Copy of INPEX reply to ECNT submission to NOPSEMA during public comment period for CCS EPs (October 2022)	INPEX confirmed meeting planned for 23/2/23 and (note: unrelated to this EP) advised could provide overview of CCS plans in the long term and content as to why current CCS EPs are being proposed.	N/A - correspondence sent by INPEX	
		23/02/2023	NA	In person meeting	Meeting minutes	Meeting with 2 representatives from ECNT. General discussion regarding INPEX plans for CCS and Exploration Drilling. ECNT confirmed no relevant matters raised during the meeting and indicated they would make a written submission.	General correspondence	
24/02/2023	NA	Email	NA	INPEX thanked ECNT for meeting. INPEX encouraged ECNT to provide feedback on INPEX response to ECNT on previous submission received during public comment period in 2022 for CCS.	N/A - correspondence sent by INPEX			
NA	24/02/2023	Email	NA	ECNT confirmed their intention to provide a written submission soon.	General correspondence			

		NA	1/03/2023	Email	Letter submission attached to email.	<p>The following written objections/claims were made by the ECNT with respect to the EP</p> <ol style="list-style-type: none"> <li>1. ECNT advised INPEX it does not support the exploration or development of new gas fields. ECNT recognises the exploration of gas fields as an indication of an intention to develop the field if gas is found there. As such, ECNT is also considering the emissions that would be enabled in the future if the exploration discovers gas at the field. ECNT rejects the separation of fossil fuel activities into discrete, isolated components, and instead views the impacts of projects holistically.</li> <li>2. ECNT submits that this goal (INPEX's decarbonization targets) would be fatally undermined by attempts to further develop gas fields in the second half of the decade.</li> <li>3. ECNT submits that those within the EMBA and PEZ who have interests, functions, and activities relevant to the proposed activities should be consulted with regardless of their nationality. At a very minimum, ECNT would like to see INPEX engage with the question of the consultation with these groups and individuals</li> </ol>	Objection or claim has merit	<p>No changes were made to the EP as a result of the feedback from this relevant person. One of the claims is assessed as having merit (item 3).</p> <ol style="list-style-type: none"> <li>1. INPEX considers Australian natural gas (LNG) has an important role to play as we progressively transition to the next generation of low carbon energy solutions. The development of new gas fields for the purpose of backfilling of current production volumes (as currently producing reservoirs decline) is not at-odds with the achievement of Australia's Nationally Determined Contributions under the Paris Agreement, provided said production is meaningfully decarbonised. This objection has no specific merit in relation to this EP</li> <li>2. Decarbonisation projects to be undertaken by INPEX are framed by the requirement to meet both regulatory and corporate targets. It should be noted that the maintenance of production rates at current optimal throughput rates will enable the most efficient (on an emissions intensity basis) production to be achieved and that such efficiencies would be reduced if throughput were to be reduced. Therefore this claim has no specific merit in relation to this EP</li> <li>3. INPEX has assessed this objection/claim as having merit in relation to this EP. Therefore, it was confirmed to the ECNT that INPEX are currently in the process of reviewing any requirements in relation to relevant persons. The outcome of the review shall be used to inform INPEX's relevant person identification methodology which is a written document that is an appendix to the EP (Appendix B.2).</li> </ol>
		6/04/2023	NA	Email	NA	<p>INPEX provided a response to the three written objections:</p> <ol style="list-style-type: none"> <li>1. INPEX considers Australian natural gas (LNG) has an important role to play as we progressively transition to the next generation of low carbon energy solutions. The development of new gas fields for the purpose of backfilling of current production volumes (as currently producing reservoirs decline) is not at-odds with the achievement of Australia's Nationally Determined Contributions under the Paris Agreement, provided said production is meaningfully decarbonised. This objection has no specific merit in relation to this EP</li> <li>2. Decarbonisation projects to be undertaken by INPEX are framed by the requirement to meet both regulatory and corporate targets. It should be noted that the maintenance of production rates at current optimal throughput rates will enable the most efficient (on an emissions intensity basis) production to be achieved and that such efficiencies would be reduced if throughput were to be reduced. Therefore this claim has no specific merit in relation to this EP</li> <li>3. INPEX has assessed this objection/claim as having merit in relation to this EP. Therefore, INPEX confirmed to the ECNT that INPEX are currently in the process of reviewing any requirements in relation to relevant persons. The outcome of the review shall be used to inform INPEX's relevant person identification methodology which is a written document that is an appendix to the EP (Appendix B.2).</li> </ol>	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	<p>Consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.</p> <p>Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3).</p>	NA	
Western Australia	The Wilderness Society (WA)	19/01/2023	NA	Email	Link to EP summary website	<p>Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.</p>	N/A - correspondence sent by INPEX	
		14/02/2023	NA	Email	Link to EP summary website	<p>Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.</p>	N/A - correspondence sent by INPEX	
		3/04/2023	NA	Email	Link to EP summary website	<p>Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.</p>	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	<p>In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.</p>	NA	
Northern Territory	Top End Coasts	19/01/2023	NA	Email	Link to EP summary website	<p>Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.</p>	N/A - correspondence sent by INPEX	
		14/02/2023	NA	Email	Link to EP summary website	<p>Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.</p>	N/A - correspondence sent by INPEX	

		3/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
Northern Territory	Territory Natural Resource Management	19/01/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
		14/02/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
		3/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
		NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	



























				NP Licence Holder 20	19/01/2023	NA	Letter	Maps, QR code and link to EP summary website provided in the letter.	Initial outgoing consultation letter to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link and QR code to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
					3/03/2023	NA	Email	Soft copies of letters sent previously	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 1 March 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
					4/04/2023	NA	Email	Soft copies of letters sent previously	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
					NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations. Note: INPEX has consulted with the relevant industry body.	NA	
				NP Licence Holder 21	19/01/2023	NA	Letter	Maps, QR code and link to EP summary website provided in the letter.	Initial outgoing consultation letter to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link and QR code to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
					3/03/2023	NA	Email	Soft copies of letters sent previously	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 1 March 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
					4/04/2023	NA	Email	Soft copies of letters sent previously	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
					NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations. Note: INPEX has consulted with the relevant industry body.	NA	
				NP Licence Holder 22	19/01/2023	NA	Letter	Maps, QR code and link to EP summary website provided in the letter.	Initial outgoing consultation letter to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link and QR code to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
					3/03/2023	NA	Email	Soft copies of letters sent previously	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 1 March 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
					4/04/2023	NA	Email	Soft copies of letters sent previously	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
					NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations. Note: INPEX has consulted with the relevant industry body.	NA	
Northern Territory	Northern Territory Seafood Council		NA		17/01/2023	NA	Email	Link to EP summary website, slides with images and maps, draft of letter that will be sent to fishers	INPEX thanked NTSC for meeting on 17/1/23. INPEX provided draft text for NTSC to include in weekly newsletters to members (new NOSPEMA guidance prompting INPEX to revise process to further identify relevant persons and invite comment on Browse Basin Permit Areas WA 285-P & WA 343-P offshore Western Australia and QT-A in the Browse Basin, with links to summary websites.	N/A - correspondence sent by INPEX	
					6/02/2023	NA	Email	NA	Follow up email to confirm whether INPEX project information has been distributed to NTSC members, and if any comments have been received by NTSC.	N/A - correspondence sent by INPEX	
					10/03/2023	NA	Email	INPEX EP advertisement	INPEX provided A5/ half page advertisement content for stakeholder to run in their newsletter. INPEX asked how to pay for the advertisement.	N/A - correspondence sent by INPEX	
					14/03/2023	NA	Email	NA	INPEX sought confirmation of receipt by stakeholder of newsletter advertisement content.	N/A - correspondence sent by INPEX	
					NA	16/03/2023	Email	NA	Stakeholder confirmed receipt of newsletter advertisement content.	General correspondence	
					16/03/2023	NA	Email	NA	INPEX asked how to pay for advertisement and whether an invoice would be sent.	N/A - correspondence sent by INPEX	
					NA	16/03/2023	Email	NA	Stakeholder advised that an invoice would be sent once the newsletter was completed.	General correspondence	
					30/03/2023	NA	Email	NA	INPEX followed up status of invoice and advertisement in letter.	N/A - correspondence sent by INPEX	
					NA	30/03/2023	Email	NA	Stakeholder representative advised that newsletter is running behind schedule due to sick leave of a colleague. Invoice has not been issued and stakeholder is hoping to circulate newsletter the following week.	General correspondence	
					4/04/2023	NA	Email	NA	INPEX noted they had been advised by stakeholder that the newsletter contain the INPEX advertisement had been delayed. INPEX asked to be advised once it was issued and if a redacted copy of the email sent to internal weekly mail out discussed in January meeting could be shared with INPEX. INPEX noted that no feedback from NT licence holders had been received, possible due to fatigue. INPEX advised that EPs would be resubmitted soon, and confirmed that the EP websites would remain open for people to provide feedback. Adjustments to plans based on feedback can be made throughout the activity if required.	N/A - correspondence sent by INPEX	
					12/04/2023	NA	Phone Call	NA	INPEX asked stakeholder to ask if newsletter had been issued and to follow up on payment for advertisement. Stakeholder advised that newsletter remains on hold due to resourcing issues; hoping to issue newsletter late next week. An invoice will be sent after newsletter is issued. INPEX advised of aim to submit EPs in late April/early May and that the advertiser supports or initial attempts at engagement via letter to licence holders and through the email updates sent by stakeholder CEO in Jan/Feb. INPEX advised the EP websites will remain open for comments to be made throughout the life of the assessment and into implementation of the EPs and that INPEX is happy to receive feedback at any time.	General correspondence	
					30/04/2023	NA	Email	NTSC April 2023 newsletter	Copy of NTSC April 2023 newsletter provided - contains INPEX advertisement.	N/A - correspondence sent by INPEX	
					NA	NA	NA	NA	Consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3).	NA	
Northern Territory	Offshore Net and Line Fishery (from coast out to AFZ) - Licence holders		ONL Licence Holder 1		19/01/2023	NA	Letter	Maps, QR code and link to EP summary website provided in the letter.	Initial outgoing consultation letter to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link and QR code to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
					NA	NA	NA	NA	DITT only releases certain contact details for NT fishing licence holders. Specifically only postal addresses are provided; there are no other alternative methods of contact available to INPEX. To reduce consultation fatigue, follow up hard copy letters have not been sent. However, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. INPEX has engaged with the Northern Territory Seafood Council and has placed an advertisement in the April NTSC newsletter. Further, relevant persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
				ONL Licence Holder 2	19/01/2023	NA	Letter	Maps, QR code and link to EP summary website provided in the letter.	Initial outgoing consultation letter to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link and QR code to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
					NA	NA	NA	NA	DITT only releases certain contact details for NT fishing licence holders. Specifically only postal addresses are provided; there are no other alternative methods of contact available to INPEX. To reduce consultation fatigue, follow up hard copy letters have not been sent. However, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. INPEX has engaged with the Northern Territory Seafood Council and has placed an advertisement in the April NTSC newsletter. Further, relevant persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
				ONL Licence Holder 3	19/01/2023	NA	Letter	Maps, QR code and link to EP summary website provided in the letter.	Initial outgoing consultation letter to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link and QR code to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
					NA	NA	NA	NA	DITT only releases certain contact details for NT fishing licence holders. Specifically only postal addresses are provided; there are no other alternative methods of contact available to INPEX. To reduce consultation fatigue, follow up hard copy letters have not been sent. However, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. INPEX has engaged with the Northern Territory Seafood Council and has placed an advertisement in the April NTSC newsletter. Further, relevant persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
				ONL Licence Holder 4	19/01/2023	NA	Letter	Maps, QR code and link to EP summary website provided in the letter.	Initial outgoing consultation letter to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link and QR code to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
					NA	NA	NA	NA	DITT only releases certain contact details for NT fishing licence holders. Specifically only postal addresses are provided; there are no other alternative methods of contact available to INPEX. To reduce consultation fatigue, follow up hard copy letters have not been sent. However, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. INPEX has engaged with the Northern Territory Seafood Council and has placed an advertisement in the April NTSC newsletter. Further, relevant persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
				ONL Licence Holder 5	19/01/2023	NA	Letter	Maps, QR code and link to EP summary website provided in the letter.	Initial outgoing consultation letter to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link and QR code to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
					NA	NA	NA	NA	DITT only releases certain contact details for NT fishing licence holders. Specifically only postal addresses are provided; there are no other alternative methods of contact available to INPEX. To reduce consultation fatigue, follow up hard copy letters have not been sent. However, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. INPEX has engaged with the Northern Territory Seafood Council and has placed an advertisement in the April NTSC newsletter. Further, relevant persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
				ONL Licence Holder 6	19/01/2023	NA	Letter	Maps, QR code and link to EP summary website provided in the letter.	Initial outgoing consultation letter to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link and QR code to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
					NA	NA	NA	NA	DITT only releases certain contact details for NT fishing licence holders. Specifically only postal addresses are provided; there are no other alternative methods of contact available to INPEX. To reduce consultation fatigue, follow up hard copy letters have not been sent. However, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. INPEX has engaged with the Northern Territory Seafood Council and has placed an advertisement in the April NTSC newsletter. Further, relevant persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
				ONL Licence Holder 7	19/01/2023	NA	Letter	Maps, QR code and link to EP summary website provided in the letter.	Initial outgoing consultation letter to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link and QR code to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	



















	3/03/2023	NA	Email	Soft copies of letters sent previously	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 1 March 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
	5/04/2023	NA	Email	Soft copies of letters sent previously	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
	NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
SBT Licence Holder 69	19/01/2023	NA	Letter	Maps, QR code and link to EP summary website provided in the letter.	Initial outgoing consultation letter to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link and QR code to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
	3/03/2023	NA	Email	Soft copies of letters sent previously	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 1 March 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
	NA	14/03/2023	Email	NA	Licence holder advised INPEX that they expect activities to be undertaken in a manner that will not compromise the SBT spawning area or SBT recruitment area.	Relevant matter - relevant person has provided or requested information relevant to the activity and/or their functions, interest or activities.	The EP was reviewed and updated to consider potential impacts on SBT spawning and recruitment given the overlap of the spawning grounds with the permit areas and the EMBA from a worst-case spill scenario. Additional information on SBT was added to Table 4-6 and Table 4-7 of the EP as a result of feedback from this relevant person. An assessment of potential impacts from underwater noise and drilling discharges (planned) and unplanned was undertaken to evaluate the potential consequence to SBT eggs and larvae, and juvenile SBT from undertaking the proposed exploration drilling activities (refer Table 7-7, Table 7-11, Table 7-14, Table 8-6 and Table 8-9). As part of this process, a possible control to reduce underwater noise impacts to ALARP was considered in Table 7-11.
	29/03/2023	NA	Email	NA	INPEX thanked licence holder for their email. INPEX confirmed that due to location, the proposed activities will not impact on vessel navigation or SBT fishing activities. INPEX confirmed that the exploration permit area is a significant distance from the areas fished SBT fishery. However the exploration permits do overlap the eastern boundary of the identified spawning grounds. INPEX has updated the EP to consider potential impacts on SBT spawning and recruitment given the overlap of the spawning grounds with the permit areas and the Environment that May be Affected (EMBA) relating to ecological impacts, from a worst-case spill scenario. INPEX welcomed further comments from the licence holder and advised if none were received that consultation would be closed for the licence holder.	N/A - correspondence sent by INPEX	
	NA	NA	NA	NA	Consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3).	NA	
	19/01/2023	NA	Letter	Maps, QR code and link to EP summary website provided in the letter.	Initial outgoing consultation letter to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link and QR code to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
SBT Licence Holder 70	3/03/2023	NA	Email	Soft copies of letters sent previously	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 1 March 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
	NA	NA	NA	NA	System email message received stating email was undeliverable (message delivery failure). Email addresses are provided by AFMA, and there are no alternative email addresses available to INPEX. Fishing industry associations for Commonwealth fisheries have been contacted as an alternative method to make contact with licence holders. To reduce consultation follow up hard copy letters have not been sent. Consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
	19/01/2023	NA	Letter	Maps, QR code and link to EP summary website provided in the letter.	Initial outgoing consultation letter to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link and QR code to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
SBT Licence Holder 71	3/03/2023	NA	Email	Soft copies of letters sent previously	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 1 March 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
	5/04/2023	NA	Email	Soft copies of letters sent previously	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
	NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
	19/01/2023	NA	Letter	Maps, QR code and link to EP summary website provided in the letter.	Initial outgoing consultation letter to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link and QR code to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
SBT Licence Holder 72	3/03/2023	NA	Email	Soft copies of letters sent previously	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 1 March 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
	5/04/2023	NA	Email	Soft copies of letters sent previously	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
	NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
	19/01/2023	NA	Letter	Maps, QR code and link to EP summary website provided in the letter.	Initial outgoing consultation letter to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link and QR code to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
SBT Licence Holder 73	3/03/2023	NA	Email	Soft copies of letters sent previously	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 1 March 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
	NA	3/03/2023	Email	NA	Licence holder directed INPEX to two fishery association CEOs handling all SBT fisheries, being Tuna Australia and ASBTA. It is noted that the licence holder forwarded copies of hardcopy letters sent to SBT licence holders 61, 73 and 77 indicating that they acted as representative for these licence holders.	General correspondence	
	12/04/2023	NA	Email	NA	INPEX thanked licence holder for their email and confirmed that consultation was underway with Tuna Australia and ASBTA. INPEX confirmed their understanding that the correspondence pertained to SBT licence holders 61, 73 and 77. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
	NA	12/04/2023	Email	NA	Licence holder noted they did not want consultation to be closed and wished to keep all consultations open with all parties concerned & transparent at all times. INPEX noted request for consultation to be ongoing, open and transparent at all times. INPEX asked stakeholder if they'd prefer to be consulted with directly in addition to the industry associations they'd previously referred to. If so, INPEX invited comments and feedback, with EP being prepared to submit end of April 2023. Advised that EP summary website would remain open during duration of activity and feedback or comments are welcomed at any stage.	General correspondence	
	13/04/2023	NA	Email	NA	Licence holder requested that INPEX liaise with their industry association on this environmental plan and any future environmental plans.	General correspondence	
	NA	13/04/2023	Email	NA	Consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3).	NA	
	19/01/2023	NA	Letter	Maps, QR code and link to EP summary website provided in the letter.	Initial outgoing consultation letter to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link and QR code to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
	3/03/2023	NA	Email	Soft copies of letters sent previously	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 1 March 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
SBT Licence Holder 74	5/04/2023	NA	Email	Soft copies of letters sent previously	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
	NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
	19/01/2023	NA	Letter	Maps, QR code and link to EP summary website provided in the letter.	Initial outgoing consultation letter to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link and QR code to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
	3/03/2023	NA	Email	Soft copies of letters sent previously	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 1 March 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
SBT Licence Holder 75	NA	14/03/2023	Email	NA	Licence holder advised INPEX that they expect activities to be undertaken in a manner that will not compromise the SBT spawning area or SBT recruitment area.	Relevant matter - relevant person has provided or requested information relevant to the activity and/or their functions, interest or activities.	The EP was reviewed and updated to consider potential impacts on SBT spawning and recruitment given the overlap of the spawning grounds with the permit areas and the EMBA from a worst-case spill scenario. Additional information on SBT was added to Table 4-6 and Table 4-7 of the EP as a result of feedback from this relevant person. An assessment of potential impacts from underwater noise and drilling discharges (planned) and unplanned was undertaken to evaluate the potential consequence to SBT eggs and larvae, and juvenile SBT from undertaking the proposed exploration drilling activities (refer Table 7-7, Table 7-11, Table 7-14, Table 8-6 and Table 8-9). As part of this process, a possible control to reduce underwater noise impacts to ALARP was considered in Table 7-11.

















									3/03/2023	NA	Email	Soft copies of letters sent previously	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 1 March 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
									5/04/2023	NA	Email	Soft copies of letters sent previously	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
									NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations. Note: INPEX has consulted with the relevant industry body.	NA	
WTB Licence Holder 41									19/01/2023	NA	Letter	Maps, QR code and link to EP summary website provided in the letter.	Initial outgoing consultation letter to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link and QR code to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
									3/03/2023	NA	Email	Soft copies of letters sent previously	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 1 March 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
									NA	NA	NA	NA	System email message received stating email was undeliverable (message delivery failure). Email addresses are provided by AFMA, and there are no alternative email addresses available to INPEX. Fishing industry associations for Commonwealth fisheries have been contacted as an alternative method to make contact with licence holders. To reduce consultation fatigue, follow up hard copy letters have not been sent. Consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
WTB Licence Holder 42									19/01/2023	NA	Letter	Maps, QR code and link to EP summary website provided in the letter.	Initial outgoing consultation letter to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link and QR code to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
									3/03/2023	NA	Email	Soft copies of letters sent previously	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 1 March 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
									NA	3/03/2023	Email	NA	Relevant person advised that their interests were being handled by two fishery associations namely CEO of Tuna Australia and CEO of ASBTIA. Contact details were provided for each CEO.	N/A - correspondence sent by INPEX	
									12/04/2023	NA	Email	NA	INPEX thanked licence holder for their email and confirmed that consultation was underway with Tuna Australia and ASBTIA. INPEX confirmed their understanding that the correspondence pertained to SBT licence holders 61, 73 and 77. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	General correspondence	
									NA	12/04/2023	Email	NA	License holder noted they did not want consultation to be closed and wished to keep all consultations open with all parties concerned and transparent at all times.	N/A - correspondence sent by INPEX	
									13/04/2023	NA	Email	NA	INPEX noted request for consultation to be ongoing, open and transparent at all times. INPEX asked stakeholder if they'd prefer to be consulted with directly in addition to the industry associations they'd previously referred to. If so, INPEX invited comments and feedback, with EP being prepared to submit end of April 2023. Advised that EP summary website would remain open during duration of activity and feedback or comments are welcomed at any stage.	General correspondence	
									NA	13/04/2023	Email	NA	Consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3).	NA	
WTB Licence Holder 43									19/01/2023	NA	Letter	Maps, QR code and link to EP summary website provided in the letter.	Initial outgoing consultation letter to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link and QR code to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
									3/03/2023	NA	Email	Soft copies of letters sent previously	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 1 March 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
									NA	14/03/2023	Email	NA	STEHR group advised INPEX that they expect activities to be undertaken in a manner that will not compromise the spawning area or recruitment area.	Relevant matter - relevant person has provided or requested information relevant to the activity and/or their functions, interest or activities.	The EP was reviewed and updated to consider potential impacts on SBT spawning and recruitment given the overlap of the spawning grounds with the permit areas and the EMBA from a worst-case spill scenario. Additional information on SBT was added to Table 4-6 and Table 4-7 of the EP as a result of feedback from this relevant person. An assessment of potential impacts from underwater noise and drilling discharges (planned) and unplanned was undertaken to evaluate the potential consequence to SBT eggs and larvae, and juvenile SBT from undertaking the proposed exploration drilling activities (refer Table 7-7, Table 7-11, Table 7-14, Table 8-6 and Table 8-9). As part of this process, a possible control to reduce underwater noise impacts to ALARP was considered in Table 7-11.
									29/03/2023	NA	Email	NA	INPEX thanked STEHR group for their email. INPEX confirmed that due to location, the proposed activities will not impact on vessel navigation or SBT fishery activities. INPEX confirmed that the planned activity area is a significant distance from the SBT spawning ground. INPEX welcomed further comments from STEHR group and advised if none were received that consultation would be closed for STEHR group.	N/A - correspondence sent by INPEX	
									NA	NA	NA	NA	Consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3).	NA	
WTB Licence Holder 44									19/01/2023	NA	Letter	Maps, QR code and link to EP summary website provided in the letter.	Initial outgoing consultation letter to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link and QR code to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
									3/03/2023	NA	Email	Soft copies of letters sent previously	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 1 March 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
									NA	NA	NA	NA	System email message received stating email was undeliverable (message delivery failure). Email addresses are provided by AFMA, and there are no alternative email addresses available to INPEX. Fishing industry associations for Commonwealth fisheries have been contacted as an alternative method to make contact with licence holders. To reduce consultation fatigue, follow up hard copy letters have not been sent. Consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
WTB Licence Holder 45									19/01/2023	NA	Letter	Maps, QR code and link to EP summary website provided in the letter.	Initial outgoing consultation letter to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link and QR code to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
									3/03/2023	NA	Email	Soft copies of letters sent previously	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 1 March 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
									NA	3/03/2023	Email	NA	License holder thanked INPEX for their consideration and advised of their preference to be consulted with via their peak industry body being Tuna Australia. It is noted that the licence holder forwarded copies of hardcopy letters sent to WTB licence holders 16 and 45 indicating that they acted as representative for these licence holders.	General correspondence	
									12/04/2023	NA	Email	NA	INPEX thanked licence holder for their email and confirmed that consultation was underway with Tuna Australia. INPEX confirmed their understanding that the correspondence pertained to WTB licence holders 16 and 45. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
									NA	NA	NA	NA	Consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3).	NA	
WTB Licence Holder 46									19/01/2023	NA	Letter	Maps, QR code and link to EP summary website provided in the letter.	Initial outgoing consultation letter to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link and QR code to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
									3/03/2023	NA	Email	Soft copies of letters sent previously	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 1 March 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
									5/04/2023	NA	Email	Soft copies of letters sent previously	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
									NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations. Note: INPEX has consulted with the relevant industry body.	NA	
WTB Licence Holder 47									19/01/2023	NA	Letter	Maps, QR code and link to EP summary website provided in the letter.	Initial outgoing consultation letter to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link and QR code to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
									3/03/2023	NA	Email	Soft copies of letters sent previously	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 1 March 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
									5/04/2023	NA	Email	Soft copies of letters sent previously	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
									NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations. Note: INPEX has consulted with the relevant industry body.	NA	
WTB Licence Holder 48									19/01/2023	NA	Letter	Maps, QR code and link to EP summary website provided in the letter.	Initial outgoing consultation letter to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link and QR code to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	





Commonwealth	Commonwealth Fisheries Association (CFA)	NA	30/01/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPSEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
			22/03/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 1 March 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
			NA	23/03/2023	Email	NA	Stakeholder advised that they are not resourced to provide feedback on proposed activities and requested INPEX to direct enquiries to the associations that represent the directly affected fisheries/fishers. Stakeholder noted that the increasing volume of requests for consultation on 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.	General correspondence	
			13/04/2023	NA	Email	NA	INPEX thanked stakeholder for their feedback. INPEX noted comments regarding resourcing concerns due to the increasing volume of requests from oil and gas titleholders and windfarm proposals and suggestion to direct enquiries to industry associations. INPEX advised they are currently in consultation with a number of relevant industry bodies for Commonwealth, State and Territory Fisheries, some of which have fee-for-service agreements in place. INPEX advised on intention to submit Environment Plans to NOSPSEMA at the end of this month. Based on stakeholder feedback consultation will be closed with stakeholder for the purposes of EP development for now. Stakeholder was encouraged to contact INPEX to provide feedback in the future as required.	General correspondence	
			NA	NA	NA	NA	Consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3).	NA	
Northern Territory	Palmerston Game Fishing Club	NA	30/01/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPSEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
			22/03/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 1 March 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
			4/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
			NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
Western Australia	Port Hedland Game Fishing Club	NA	30/01/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPSEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
			22/03/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 1 March 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
			4/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
			NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
Western Australia	Recfishwest	NA	30/01/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPSEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
			22/03/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 1 March 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
			NA	31/03/2023	Email	NA	Recfishwest thanked INPEX for consultation email. Noted given location of proposed activities that recreational fishing was unlikely to be impacted. Recfishwest has no concerns based on the information provided. Recfishwest thanked INPEX for the consultation and indicated they were happy to receive updates as the project progressed.	General correspondence	
			12/04/2023	NA	Email	NA	INPEX thanked Recfishwest for confirming they have no comment to proposed activities and advised that on this basis consultation would be closed at this time.	N/A - correspondence sent by INPEX	
			NA	NA	NA	NA	Consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3).	NA	
Western Australia	Western Australian Game Fishing Association	NA	30/01/2023	NA	Email	Link to EP summary website	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOSPSEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX	
			22/03/2023	NA	Email	Link to EP summary website	Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 1 March 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.	N/A - correspondence sent by INPEX	
			4/04/2023	NA	Email	Link to EP summary website	Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.	N/A - correspondence sent by INPEX	
			NA	NA	NA	NA	In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA	
Western Australia	Western Australian Fishing Industry Council (WAFIC)	NA	4/01/2023	NA	Email	N/A	INPEX asked if any progress had been made on the draft WAFIC consultation paper that was shared with INPEX in December 2022. INPEX advised the potential need to consult with the following fisheries that had not been previously contacted: •Abalone Managed Fishery (Zone 8) – confirm whether still active or currently closed. •Broome Prawn Managed Fishery •Hermit Crab Fishery •Joint Authority Northern Shark Fishery, North-Coast Shark Fishery •Kimberley Gillnet and Barramundi Fishery •Kimberley Managed Prawn •Mackerel Managed Fishery (Area 1, Area 2) •Marine Aquarium Fishery •Nickol Bay Prawn Fishery •North-coast Crab Fishery •Oraslow Prawn Fishery •Pearl Oyster Managed Fishery (Zone 1, 2, 3 and 4) •Pibara Demersal Scafellish Fishery (line, trap and trawl) •South-west Coast Salmon •Specimen Shell Fishery •Trochus Fishery •West Coast Deep Sea Crustacean •Beche-De-Mer Fishery •Christmas Island Line Fishery (would this need to be requested via DPIRD?) •Cocos Island Marine Aquarium Fishery (would this need to be requested via DPIRD?) INPEX asked if a WAFIC representative could phone for a discussion.	N/A - correspondence sent by INPEX	
			16/01/2023	NA	Email	NA	INPEX asked whether there was any update available on whether WAFIC could issue the industry position statement and asked if someone could please phone to discuss.	N/A - correspondence sent by INPEX	
			NA	16/01/2023	Email	NA	WAFIC advised of internal delays in completing the position statement and advised they would respond to INPEX once the position statement was finalised.	General correspondence	
			16/01/2023	NA	Email	NA	INPEX thanked WAFIC for the update on the position statement.	N/A - correspondence sent by INPEX	
			NA	17/01/2023	Email	NA	WAFIC provided weblinks posted on WAFIC website that outline preferred approach in undertaking consultation with commercial fishing licence holders that will only be affected by a significant unplanned event (emergency scenarios). <a href="https://www.wafic.org.au/what-we-do/access-sustainability/oil-gas/">https://www.wafic.org.au/what-we-do/access-sustainability/oil-gas/</a> <a href="https://www.wafic.org.au/what-we-do/access-sustainability/oil-gas/consultation-approach-for-unplanned-events/">https://www.wafic.org.au/what-we-do/access-sustainability/oil-gas/consultation-approach-for-unplanned-events/</a> WAFIC directed INPEX to their preferred approach (published on the WAFIC website) for consultation with commercial fishing licence holders as a result of the appeal decision made by the Federal Court of Australia Santos NA Barossa Pty Ltd v Topalagipps (2022) FCAC 193 (appeal decision) on 2 December 2022. WAFIC claims relating to titleholder preparedness for emergency scenarios: 1. Baseline scientific data on aquatic organisms and the marine environment 2. An understanding of the process and strategy to temporarily close a fishery either via a voluntary process or formally through legislation under the Fish Resources Management Act 1994. 3. Processes to support the commercial fishing industry with regards to traceability of fish product to manage labelling risks. 4. A detailed process for post spill scientific monitoring of aquatic organisms and the marine environment. 5. Commitment for financial assistance to the commercial fishing industry in the event the industry is unable to operate, due to an unplanned event. It is WAFIC's understanding that in the event a fishery is closed for a period of time, as an outcome of the Operational and Scientific monitoring, that determines it is not safe to catch and land fish for human consumption, then our industry would be compensated for the direct loss of catch and other operational expenses associated with a business and this would be covered by the finance assurance as specified by NOSPSEMA. Consultation with WAFIC in the event of an emergency scenarios: •6. Communication strategy for the commercial fishing industry in response to an emergency event, including a list of fisheries that fall within the environment that may be affected by the emergency scenario. 7. WAFIC and commercial fishing licence holders are notified within 24 hours of any emergency scenario.	Relevant matter - relevant person has provided or requested information relevant to the activity and/or their functions, interest or activities.	INPEX retains a list of WA commercial fisheries that could potentially be impacted by unplanned spill scenarios in Table 4.7 and Table 4.8 of the EP. INPEX will include WAFIC as contact within oil spill response planning documents to ensure contact is made within 24 hours of event. INPEX would utilise WAFIC's fee for service to contact commercial fishing licence holders in the event of an emergency scenario, this has been detailed in Table 2-4 of the Browse Regional OPEP (Rev5).
			18/01/2023	NA	Email	NA	INPEX thanked WAFIC for the update. INPEX will consider this position and include reference to it in records of consultation.	N/A - correspondence sent by INPEX	
			14/03/2023	NA	Email	NA	1/3 - spill over three rows due to length of content. INPEX provided a response to WAFIC's position statement available regarding consultation related to significant unplanned events (e.g. Emergency spill scenarios). WAFIC claims relating to titleholder preparedness for emergency scenarios 1. Baseline scientific data on aquatic organisms and the marine environment INPEX response: baseline environmental studies undertaken in Browse Basin by AIMS and research partners as part of 15M ARP. Included 9 scopes with objective of collecting baseline data to allow companies to assess impacts of an unplanned spill. One scope focussed on commercially important demersal fisheries. Readiness of OSMP monitoring programs maintained to be activated in event of major spill. 2. An understanding of the process and strategy to temporarily close a fishery either via a voluntary process or formally through legislation under the Fish Resources Management Act 1994. INPEX response: closure of a fishery would be managed by relevant govt agency responsible for permits/licences of potentially affected fishery. Coordination arrangements are in place between titleholders and govt agencies. In event of oil spill potentially affecting fisheries, decisions would be made by OPICD and/or JSCC in consultation with INPEX. 3. Processes to support the commercial fishing industry with regards to traceability of fish product to manage labelling risks INPEX response: OSMP includes monitoring program SM12. To determine the impact of oil spill on commercial, traditional and recreational fisheries, which includes various assessments depending on type, nature and scale of the spill. 4. A detailed process for post spill scientific monitoring of aquatic organisms and the marine environment. INPEX response: as per OPGGS E regs, all titleholders are required to have arrangements in place for a suitable OSMP for purpose of determining impacts and monitoring the recovery of marine environment. OSMPs are publicly available on NOSPSEMA website.	N/A - correspondence sent by INPEX	



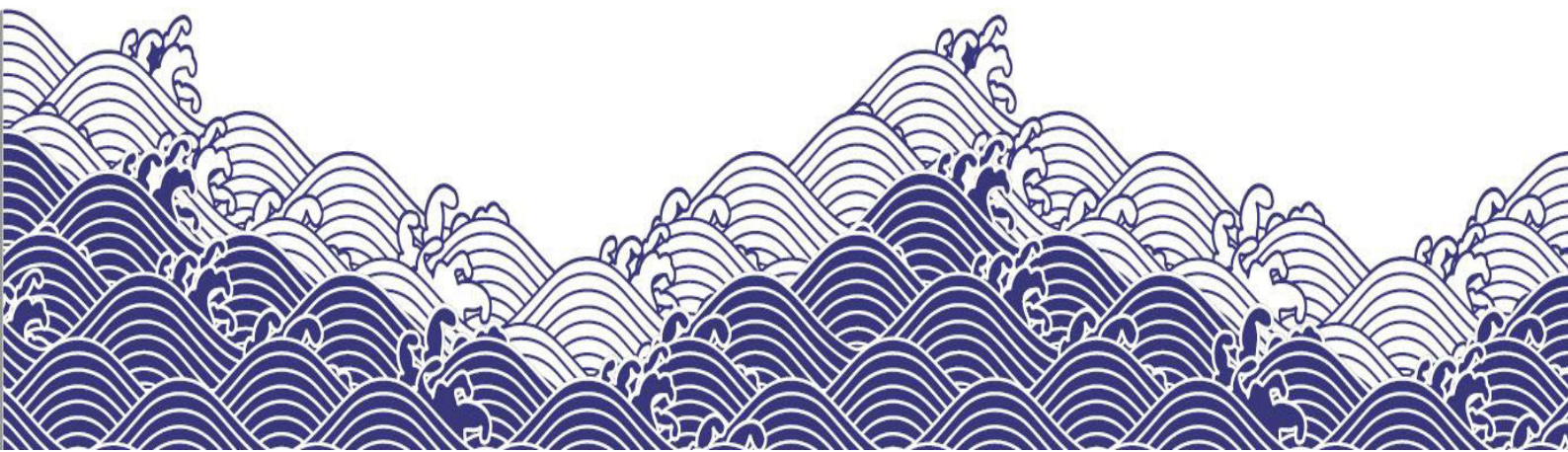
						2/3 - continued from row above due to length of content. Consultation with WAFIC in the event of an emergency scenario			
						5. Commitment for financial assistance to the commercial fishing industry in the event the industry is unable to operate, due to an unplanned event. <b>INPEX response:</b> INPEX maintains financial assurance to ensure costs of implementing a response and implementing monitoring will be met. The monitoring will determine impacts to environment inclusive of SM12, the outcomes of which will inform further discussions with commercial fishing industry if appropriate. 6. Communication strategy for the commercial fishing industry in response to an emergency event, including a list of fisheries that fall within the environment that may be affected by the emergency scenario. <b>INPEX response:</b> INPEX will include WAFIC as contact within oil spill response planning documents to ensure contact is made within 24 hours of event. INPEX would utilize WAFIC's fee for service to contact commercial fishing licence holders in the event of an emergency scenario. 7. WAFIC and commercial fishing licence holders are notified within 24 hours of any emergency scenario. <b>INPEX response:</b> INPEX will retain a list of WA commercial fisheries that could potentially be impacted by unplanned spill scenarios. In addition, INPEX Incident Management Team and Crisis Management Team conduct various oil spill exercises as part of annual IMT/CMT training.		N/A - correspondence sent by INPEX	
						3/3 - continued from row above due to length of content.  INPEX requested clarification if WAFIC represent the following fisheries: Northern Demersal Scalefish Managed Fishery (WA) Area 2, Mackerel Managed Fishery (WA) Area 1, North Coast Shark Fishery (DwIth/WA) Northern Zone, Pearl Oyster Managed Fishery (WA) Zone 3, West Coast Deep Sea Crustacean Fishery (WA), Trochus Fishery (WA), Kimberley Prawn Managed Fishery (WA), Specimen Shell Managed Fishery (WA), South West Coast Salmon Managed Fishery (WA), North Coast Crab Fishery (Including Kimberley Crab and Pilbara Crab) (WA), Marine Aquarium Fish Fishery (WA), Hermit Crab Fishery (WA), Broome Prawn Managed Fishery (WA), Abalone Managed Fishery (WA), Nickel Bay Prawn Managed Fishery (WA), Pilbara Trap Managed Fishery and Pilbara Fish Trawl Intern Managed Fishery (WA), Pilbara Line Fishery (WA), Kimberley Gillnet and Baramundi Fishery (WA), Onslow Prawn Managed Fishery (WA), Cocos (Keeling) Islands Marine Aquarium Fish Fishery, Christmas Island Line Fishery.		N/A - correspondence sent by INPEX	
						WAFIC confirmed their understanding that in the event a fishery is closed for a period of time, as an outcome of the Operational and Scientific monitoring, that determines it is not safe to catch and land fish for human consumption, then our industry would be compensated for the direct loss of catch and other operational expenses associated with a business and this would be covered by the finance assurance as specified by NOPSEMA. WAFIC noted the following regarding list of fisheries that INPEX had queried if they were represented by WAFIC: - North Coast Shark - not activity fishing, WAFIC advised not to contact. - no jurisdiction over Cocos (Keeling) Islands Marine Aquarium Fish Fishery and the Christmas Island Line Fishery - there are formal arrangements in place between the Commonwealth and OPIRD.		Relevant matter - relevant person has provided or requested information relevant to the activity and/or their functions, interest or activities.	Section 4.12.1 of the EP was updated to include WAFIC feedback regarding WA fisheries
						INPEX advised it is not of the same understanding as WAFIC in relation to payment of costs for closure of a fishery for a period of time. The insurances in place estimate the resources and operational needs of the response (e.g. vessels, helicopters and manpower); however, they do not estimate potential loss of catch in the event of closure. INPEX has no way of estimating the value of particular fisheries and potential value of compensation claims that may arise. INPEX would need to discuss any such claims on a case by case basis in consultation with relevant government departments and WAFIC post emergency. INPEX advised they are planning to submit EPs shortly and thanked WAFIC for taking the time to consult with INPEX.		N/A - correspondence sent by INPEX	
						WAFIC advised they had no further comment and thanked INPEX for the clarification on insurances in places. WAFIC also advised that INPEX should include the Sea Cucumber Fishery (WA) in the list of WA fisheries represented by WAFIC.		Relevant matter - relevant person has provided or requested information relevant to the activity and/or their functions, interest or activities.	Section 4.12.1 of the EP was updated to include WAFIC feedback regarding WA fisheries
						Consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3).		NA	
Western Australia	Pearl Producers Association	NA				Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 1 March 2023. INPEX advised that all correspondence received must be provided to NOPSEMA, but that correspondence can be treated confidentially (not published publicly) if requested.		N/A - correspondence sent by INPEX	
						Follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 1 March 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX may make further attempts to contact again.		N/A - correspondence sent by INPEX	
						Final follow up email to relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Provided link to EP website and phone number, with feedback requested by 11 April 2023. Requested relevant person to advise INPEX if they have no further comments on the activity, enabling consultation to be closed. If no receipt of acknowledgement is received, INPEX will note that no further information is required.		N/A - correspondence sent by INPEX	
						In accordance with INPEX methodology, multiple attempts have been made to contact this Relevant Person during a reasonable period with no response received to date. In addition, other mechanisms have been used to comply with INPEX's requirement to consult with Relevant Persons on the proposed activity. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.		NA	
Commonwealth	Tuna Australia	NA				Tuna Australia provided INPEX a copy of their Industry Position Statement for engaging with energy companies seeking consultation advice on environmental plans and project proposals. Tuna Australia requested INPEX make contact if they can assist during consultation.		General correspondence	
						INPEX acknowledged the industry position statement from Tuna Australia and that it is relevant to its proposed offshore activities in the Browse Basin as the Western Tuna and Billfish Fishery management area overlaps the areas of planned and unplanned activities as shown GIS mapping included in the email.  During the development of the EP, INPEX analysed commercial fishing catch and effort data for Commonwealth fisheries using publicly available data from the Australian Bureau of Agricultural and Resource Economics and Sciences (ABARES) for the period 2010-2020.  The Western Tuna and Billfish Fishery has consistently fished off the west coast of WA and off South Australia, with no fishing occurring in proximity to the exploration permit areas in the Browse Basin. Therefore, through undertaking the proposed exploration activities in WA-285-F & WA-343-EP, INPEX considers the potential to impact fishing vessel navigation or disrupt the fishing activities of the Western Tuna and Billfish Fishery to be 'Highly Unlikely'. Impacts to fish stocks (spawning and recruitment) on WTBF target species has also been considered and given the 'highly unlikely' likelihood of an oil spill occurring during the short-term duration of the activities, no detrimental impacts to stock levels are anticipated.  As requested in the Position Statement, in the first instance INPEX has provided maps to show the areas of the planned activities including coordinates and the areas potentially exposed in the event of a worst-case oil spill. INPEX is seeking confirmation and agreement from Tuna Australia that their member interests are highly unlikely to be affected by the proposed activities in the Browse Basin and that no further consultation is required for the development of this EP. Noting that there are mechanisms in place to provide ongoing opportunities for consultation with relevant persons in relation to the implementation of the EP		N/A - correspondence sent by INPEX	
						Tuna Australia thanked INPEX for the detailed response. Tuna Australia advised that for them to provide comment on proposal they must seek responses from concession holders in the Western and Eastern Tuna and Billfish Fisheries that not only address previous spatial and temporal catch history, but also proposed future fishing activity, navigation, and conservation of marine resources. Tuna Australia attached a services agreement should INPEX want assistance with consultation.		General correspondence	
						INPEX understands that Tuna Australia would need to seek responses from licence holders to confirm assumptions regarding fishing activity, navigation and conservation of marine resources. Through analysis of fishing effort and catch exploration data given to Tuna Australia, INPEX assesses that impacts from the proposed short term activities is 'Highly Unlikely'. Based on known location of spawning being very distant from proposed activities and oil spill EMBA, INPEX is uncertain that licence holders represented by Tuna Australia will be able to provide advice regarding spawning locations.  INPEX has consulted directly with the individual licence holders of the WTBF for the proposed activities. For INPEX to consider a fee-for-service arrangement with Tuna Australia in the future, can Tuna Australia please confirm whether Tuna Australia represents the views of all licence holders?		N/A - correspondence sent by INPEX	
						Tuna Australia provided an updated copy of their Industry Position Statement. Tuna Australia summarised their outreach and consultation process and advised they have many agreements with energy companies. Tuna Australia advised they represent many but not all concession holders and that Tuna Australia has identified gaps in the INPEX EP.		General correspondence	
						INPEX reiterated process undertaken so far to contact all concession holders in January, March and April 2023. Tuna Australia was brought to INPEX's attention via a concession holder in April 2023 just prior to EP submission which is why INPEX had not engaged Tuna Australia formally at that point. INPEX would welcome Tuna Australia's feedback on the known gaps in INPEX EP without Tuna Australia needing to re-contact all concession holders. INPEX acknowledged that Tuna Australia appear to represent a large proportion of concession holders and that INPEX would consider a consulting services agreement with Tuna Australia in the future.		N/A - correspondence sent by INPEX	
						Tuna Australia confirmed that a consulting services agreement would be required to assist INPEX and offered to re-send a copy. Tuna Australia confirmed that expedited information would be covered by an agreement.		General correspondence	
						Administrative queries regarding consulting services agreement.		N/A - correspondence sent by INPEX	
						Administrative responses regarding consulting services agreement.		General correspondence	
						INPEX sent Tuna Australia completed Consulting Services agreement; proposed timeframes for Tuna Australia information to be provided.		N/A - correspondence sent by INPEX	
						Tuna Australia confirmed receipt of consulting services agreement and agreed timeframes for information to be provided to INPEX. Tuna Australia confirmed that they had information needed from INPEX to commence and sought clarification on a matter relating to the CCS EPs.		General correspondence	
						INPEX clarified Tuna Australia's query on CCS EP query.		N/A - correspondence sent by INPEX	
						INPEX followed up Tuna Australia progress to confirm the submissions would be delivered on the agreed due date of 21 July.		N/A - correspondence sent by INPEX	
						Tuna Australia confirmed that submissions had been completed and were awaiting managerial sign off. Tuna Australia advised they would be sent though on Monday 24 July.		General correspondence	
						INPEX thanked Tuna Australia for the update on submission timing.		N/A - correspondence sent by INPEX	
						Tuna Australia advised INPEX that due to unforeseen circumstances the submissions will not be finalised until later in the week.		General correspondence	
						INPEX spoke with Tuna Australia representative who provided telephone number of CEO and requested that INPEX call them instead for an update.		N/A - correspondence sent by INPEX	
						Phone message for Tuna Australia CEO regarding submissions due to INPEX.		N/A - correspondence sent by INPEX	
						Email to Tuna Australia CEO seeking an update on timeframes for submission delivery and whether feedback can be given into findings / recommendations. Priority this week is 285/343 Exploration Drilling EP report.		N/A - correspondence sent by INPEX	
						Tuna Australia CEO advised it was going to take a couple of days to complete the submissions. CEO did not provide guidance on identified gaps and indicated stakeholder feedback was being compiled. Discussed delivery timeframes; 285/343 Exploration Drilling submission to be prioritised as requested by INPEX.		General correspondence	
						Tuna Australia provided submission on EP. Matters raised: 1. Recommended that INPEX contact ASBTA 2. Error identified re. WAFIC representation: does not include Commonwealth Fisheries 3. EP does not specify that SBT fishery overlaps permit areas and does not recognise longline catch 4. INPEX to consider disruption to SBT fishery including larval dispersion and migration 5. Repeat of matters 1 and 4 above 6. Impacts to Western Skipjack fishery 7. Sought clarification on WAFIC comments regarding closure of fisheries 8. No compensation framework demonstrated in the EP. Specified requirements of compensation framework (loss or damage of equipment, displacement, large scale impact) 9. Loss of fishing area and how fishers will be compensated if exploration leads to further development 10. Noted future fishing efforts and the need for deceleration 11. EP to reflect collaboration with other oil and gas companies regarding cumulative impacts		Relevant matter - relevant person has provided or requested information relevant to the activity and/or their functions, interest or activities.	The relevant person consultation described in the acceptability section of Tables 7-7, 7-11, 7-14, 7-15, 8-6 and 8-9 were also updated. In Table 7-11 and 7-15, additional controls were considered in the ALARP justification as a result of the feedback provided by individual SBT fishery licence holders and Tuna Australia's submission. These controls included altering the timing of the activity to avoid spawning times (Table 7-15) and also the consideration of a claims process to provide compensation (Table 7-15). A new notification control has been presented in Table 9-6.

			27/07/2023	NA	Email	EP Revision 3 (marked up)	Part 1 of 2 - split over 2 rows due to size. INPEX responded to Tuna Australia submission: It would appear that Tuna Australia accessed Revision 1 of the EP dated 10 May 2022. Note the most current version of the EP (Revision 3 dated 27 April 2023) was available at the link provided in the initial engagement. 1. INPEX confirmed that ASBTH is a relevant person and has been consulted in 2023. 2. Commonwealth fisheries and their relevant associations have been identified as relevant persons and consulted with in 2023. INPEX acknowledge WAFIC do not represent Commonwealth fisheries. 3. The EP will be updated to recognise the SBT fishery overlap and describe the commercial longline catch. 4. A description of SBT spawning grounds and an assessment of potential impacts was included in Revision 3 of the EP. 5. Refer to INPEX response to matters 1 and 4 above. 6. INPEX notes this comment relates to the consultation approach undertaken in 2022 versus the consultation undertaken in 2023. INPEX can confirm that Western Skipjack Fishery licence holders were identified and consulted as a relevant person in 2023. 7. INPEX provided clarification and understands that the closure of a fishery would be managed via the relevant State, Territory or Commonwealth agency, responsible for the permits/licences associated with the potentially affected fisheries. 8. Given the stationary nature of drill rig, damage or loss fishing equipment is not likely to occur as a result of the activity. Temporary loss of access to fishing grounds within the 500m radius PSZ is considered insignificant in relation to the available small fishing grounds (which extend to the whole of the Australian EEZ). There are no large-scale impacts associated with the planned activity. INPEX provided details on their OSMF, which forms part of the EP submission, that includes a monitoring program to determine the impact of oil spill on commercial, traditional and recreational fisheries. 9. In the event that future development is considered, it would be subject to environmental approvals and consultation. See next row for responses to 10 and 11.	N/A - correspondence sent by INPEX
			27/07/2023 (continued)				Part 2 of 2 - split over 2 rows due to size. 10. INPEX notes that reference to a "communication protocol" is not included within this EP. INPEX believes this comment may be in relation to the INPEX 30 Marine Seismic survey EP. In relation to this EP, the pre-drill survey will occur over ~10 days. The survey vessel will comply with the requirements of the Navigation Act, including those that relate to communications with other vessels. 11. Cumulative impacts relating to planned discharges are assessed in the EP. Consultations with other adjacent titleholders to date have not identified any concurrent activities that would result in cumulative impacts.	N/A - correspondence sent by INPEX
			NA	NA	NA	NA	Consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations. Further, Relevant Persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3).	NA
Commonwealth	Christmas Island Line Fishery	NA	10/01/2023	NA	Email	NA	INPEX contacted DPIRD seeking licence holder details for a number of fisheries, including Christmas Island Line Fishery and Cocos Island Marine Aquarium Fishery.	N/A - correspondence sent by INPEX
			NA	19/01/2023	Email	NA	DPIRD advised that a list of licence holders for each fishery could be obtained for \$35 for each one.	General correspondence
			23/01/2023	NA	Email	NA	INPEX contacted DPIRD Director seeking clarification of whether WA Fisheries manage external territory fisheries namely Christmas Island Line Fishery and Cocos Island Marine Aquarium Fishery.	N/A - correspondence sent by INPEX
			NA	23/01/2023	Email	NA	DPIRD Director advised that commercial and recreational fishing along with aquaculture on the IOT's were previously managed by DPIRD under a Service Delivery Agreement (SDA) with the Commonwealth. The SDA ceased approximately 2 years ago. The Commonwealth has applied WA legislation under an applied Act, which still has effect on the IOT's. The Commonwealth has requested that DPIRD maintain the current licensing arrangement on DPIRD register that relates to commercial fishing authorisations on Christmas Island (Licensed fishing boats) and the Mariculture licence that applies on Cocos. DPIRD have advised the Commonwealth that they will maintain these licences in the short-term until another service provided can be found.	General correspondence
			30/01/2023	NA	Email	NA	INPEX thanked DPIRD for confirming status of licensing for Christmas Island Line Fishery and Cocos Island Marine Aquarium Fishery.	N/A - correspondence sent by INPEX
			30/01/2023	NA	Email	Completed payment authorisation form (not attached in SMR as it contains credit card information)	INPEX requested licence holder details for Christmas Island Line Fishery and Cocos Island Marine Aquarium Fishery and attached a completed payment authorisation form.	N/A - correspondence sent by INPEX
			20/02/2023	NA	Email	NA	INPEX requested updated from DPIRD on progress of licence holder request.	N/A - correspondence sent by INPEX
			8/02/2023	NA	Email	NA	INPEX requested updated from DPIRD on progress of licence holder request.	N/A - correspondence sent by INPEX
			30/03/2023	NA	Phone Call	NA	INPEX left a telephone message for alternative DPIRD Licensing officer regarding licence holder request.	N/A - correspondence sent by INPEX
			30/03/2023	NA	Email	NA	INPEX followed up phone message with an email to alternative DPIRD Licensing officer requesting an update on the status of the licence holder request.	N/A - correspondence sent by INPEX
			5/04/2023	NA	Email	NA	INPEX contacted DPIRD Director (who had provided advice on 23/1/23) seeking assistance in obtaining licence holder details for Christmas Island Line Fishery and Cocos Island Marine Aquarium Fishery.	N/A - correspondence sent by INPEX
			NA	24/04/2023	Email	NA	DPIRD Licensing Officer contacted INPEX and apologised for the time taken to respond to query. Due to a change in banking procedures further credit card details are required to process the payment. Once received, the licence holder list will be processed as a matter of priority.	General correspondence
			26/04/2023	NA	Email	Credit card payment form	INPEX provided payment details for fishery licence holder details	N/A - correspondence sent by INPEX
			NA	26/04/2023	Email	Payment receipt, licence holder details	DPIRD provided list of Fishing Boat Licences authorised for Christmas Island.	General correspondence
		Christmas Island Licence Holder 1	27/05/2023	NA	Letter	NA	Initial outgoing consultation letter to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 3 July 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX
			NA	NA	NA	NA	DPIRD only releases certain contact details for fishing licence holders. Specifically only postal addresses are provided; there are no other alternative methods of contact available to INPEX. To reduce consultation fatigue, follow up hard copy letters have not been sent. Relevant persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA
		Christmas Island Licence Holder 2	27/05/2023	NA	Letter	NA	Initial outgoing consultation letter to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 3 July 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX
			NA	NA	NA	NA	DPIRD only releases certain contact details for fishing licence holders. Specifically only postal addresses are provided; there are no other alternative methods of contact available to INPEX. To reduce consultation fatigue, follow up hard copy letters have not been sent. Relevant persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA
Commonwealth	Cocos (Keeling Islands) Marine Aquarium Fish Fishery	NA	10/01/2023	NA	Email	NA	INPEX contacted DPIRD seeking licence holder details for a number of fisheries, including Christmas Island Line Fishery and Cocos Island Marine Aquarium Fishery.	N/A - correspondence sent by INPEX
			NA	19/01/2023	Email	NA	DPIRD advised that a list of licence holders for each fishery could be obtained for \$35 for each one.	General correspondence
			23/01/2023	NA	Email	NA	INPEX contacted DPIRD Director seeking clarification of whether WA Fisheries manage external territory fisheries namely Christmas Island Line Fishery and Cocos Island Marine Aquarium Fishery.	N/A - correspondence sent by INPEX
			NA	23/01/2023	Email	NA	DPIRD Director advised that commercial and recreational fishing along with aquaculture on the IOT's were previously managed by DPIRD under a Service Delivery Agreement (SDA) with the Commonwealth. The SDA ceased approximately 2 years ago. The Commonwealth has applied WA legislation under an applied Act, which still has effect on the IOT's. The Commonwealth has requested that DPIRD maintain the current licensing arrangement on DPIRD register that relates to commercial fishing authorisations on Christmas Island (Licensed fishing boats) and the Mariculture licence that applies on Cocos. DPIRD have advised the Commonwealth that they will maintain these licences in the short-term until another service provided can be found.	General correspondence
			30/01/2023	NA	Email	NA	INPEX thanked DPIRD for confirming status of licensing for Christmas Island Line Fishery and Cocos Island Marine Aquarium Fishery.	N/A - correspondence sent by INPEX
			30/01/2023	NA	Email	Completed payment authorisation form (not attached in SMR as it contains credit card information)	INPEX requested licence holder details for Christmas Island Line Fishery and Cocos Island Marine Aquarium Fishery and attached a completed payment authorisation form.	N/A - correspondence sent by INPEX
			20/02/2023	NA	Email	NA	INPEX requested updated from DPIRD on progress of licence holder request.	N/A - correspondence sent by INPEX
			8/02/2023	NA	Email	NA	INPEX requested updated from DPIRD on progress of licence holder request.	N/A - correspondence sent by INPEX
			30/03/2023	NA	Phone Call	NA	INPEX left a telephone message for alternative DPIRD Licensing officer regarding licence holder request.	N/A - correspondence sent by INPEX
			30/03/2023	NA	Email	NA	INPEX followed up phone message with an email to alternative DPIRD Licensing officer requesting an update on the status of the licence holder request.	N/A - correspondence sent by INPEX
			5/04/2023	NA	Email	NA	INPEX contacted DPIRD Director (who had provided advice on 23/1/23) seeking assistance in obtaining licence holder details for Christmas Island Line Fishery and Cocos Island Marine Aquarium Fishery.	N/A - correspondence sent by INPEX
			NA	24/04/2023	Email	NA	DPIRD Licensing Officer contacted INPEX and apologised for the time taken to respond to query. Due to a change in banking procedures further credit card details are required to process the payment. Once received, the licence holder list will be processed as a matter of priority.	General correspondence
			26/04/2023	NA	Email	Credit card payment form	INPEX provided payment details for fishery licence holder details	N/A - correspondence sent by INPEX
			NA	26/04/2023	Email	Payment receipt, licence holder details	DPIRD provided list of Fishing Boat Licences authorised for Christmas Island.	General correspondence
		Cocos Island Licence Holder 1	27/05/2023	NA	Letter	NA	Initial outgoing consultation email to new relevant persons seeking comment and feedback on proposed offshore activities in Browse Basin. Advised that they have been identified as a relevant person whose functions, activities or interests may be affected by proposed activities. INPEX included brief description of activities and provided link to EP specific website, email address and phone number with feedback requested by 3 July 2023. INPEX advised that all correspondence received must be provided to NOSPEMA, but that correspondence can be treated confidentially (not published publicly) if requested.	N/A - correspondence sent by INPEX
			NA	NA	NA	NA	DPIRD only releases certain contact details for fishing licence holders. Specifically only postal addresses are provided; there are no other alternative methods of contact available to INPEX. To reduce consultation fatigue, follow up hard copy letters have not been sent. Relevant persons can provide feedback to INPEX via the EP webpage during the implementation of the EP with any new relevant matters assessed in accordance with the EP (Section 9.8.3). Accordingly, consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations.	NA
Western Australia	Abalone Managed Fishery (Zone 8) - Licence holders	NA	NA	NA	NA	NA	Consultation via WAFIC as representative industry council. Consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations. Refer to WAFIC section of this consultation log.	NA
Western Australia	Broome Prawn Managed Fishery - Licence Holders	NA	NA	NA	NA	NA	Consultation via WAFIC as representative industry council. Consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations. Refer to WAFIC section of this consultation log.	NA
Western Australia	Hermat Crab Fishery - Licence holders	NA	NA	NA	NA	NA	Consultation via WAFIC as representative industry council. Consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations. Refer to WAFIC section of this consultation log.	NA
Western Australia	Joint Authority Northern Shark Fishery - Licence Holders	NA	NA	NA	NA	NA	Consultation via WAFIC as representative industry council. Consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations. Refer to WAFIC section of this consultation log.	NA
Western Australia	Kimberley Gillnet and Barramundi Fishery - Licence holders	NA	NA	NA	NA	NA	Consultation via WAFIC as representative industry council. Consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations. Refer to WAFIC section of this consultation log.	NA
Western Australia	Kimberley Managed Prawn Fishery - Licence Holders	NA	NA	NA	NA	NA	Consultation via WAFIC as representative industry council. Consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations. Refer to WAFIC section of this consultation log.	NA
Western Australia	Marine Aquarium Fish Fishery - Licence holders	NA	NA	NA	NA	NA	Consultation via WAFIC as representative industry council. Consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations. Refer to WAFIC section of this consultation log.	NA
Western Australia	Nickol Bay Prawn Managed Fishery - Licence holders	NA	NA	NA	NA	NA	Consultation via WAFIC as representative industry council. Consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations. Refer to WAFIC section of this consultation log.	NA
Western Australia	North Coast Shark Fishery - Licence holders	NA	NA	NA	NA	NA	Consultation via WAFIC as representative industry council. Consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations. Refer to WAFIC section of this consultation log.	NA
Western Australia	North-coast Crab Fishery (includes Kimberley and Pilbara Crab Fisheries) Licence holders	NA	NA	NA	NA	NA	Consultation via WAFIC as representative industry council. Consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations. Refer to WAFIC section of this consultation log.	NA
Western Australia	Onslow Prawn Managed Fishery - Licence holder	NA	NA	NA	NA	NA	Consultation via WAFIC as representative industry council. Consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations. Refer to WAFIC section of this consultation log.	NA
Western Australia	Pilbara Demersal Scalefish Fishery (Trap and Trawl) - Licence holders	NA	NA	NA	NA	NA	Consultation via WAFIC as representative industry council. Consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations. Refer to WAFIC section of this consultation log.	NA
Western Australia	Pilbara Line Fishery - Licence holders	NA	NA	NA	NA	NA	Consultation via WAFIC as representative industry council. Consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations. Refer to WAFIC section of this consultation log.	NA
Western Australia	South-west coast Salmon Managed Fishery - Licence holders	NA	NA	NA	NA	NA	Consultation via WAFIC as representative industry council. Consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations. Refer to WAFIC section of this consultation log.	NA
Western Australia	Specimen Shell Managed Fishery - Licence holders	NA	NA	NA	NA	NA	Consultation via WAFIC as representative industry council. Consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations. Refer to WAFIC section of this consultation log.	NA
Western Australia	Trochus fishery - Licence Holders	NA	NA	NA	NA	NA	Consultation via WAFIC as representative industry council. Consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations. Refer to WAFIC section of this consultation log.	NA
Western Australia	West Coast Deep Sea Crustacean Fishery - Licence holders	NA	NA	NA	NA	NA	Consultation via WAFIC as representative industry council. Consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations. Refer to WAFIC section of this consultation log.	NA

Western Australia	Sea Cucumber Fishery (out to 3nm) - Licence Holders	NA	NA	NA	NA	Consultation via WAFIC as representative industry council. Consultation in the course of preparation of the EP has been completed in accordance with the OPPGS (E) Regulations. Refer to WAFIC section of this consultation log.	NA
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## Appendix B.7 – **Oil Oil Spill Modelling**

- a) Technical note - RPS**
- b) EMBA for ecological impact assessment**
- c) Source control time series**



## Appendix B.7 a) Technical note - RPS

### Response to Inpex questions on Oil Spill Modelling

The following technical guidance has been prepared by me, Scott Langtry, as a subject matter expert in oil spill modelling as applied to environmental management of oil field operations within the offshore waters of Australia. The details provided constitute my opinions based on specialised knowledge developed through my education, training, study, and experience, including working experience carrying out oil spill modelling for risk assessment and response to real spill incidents over 26 years.

This report has been compiled in response to a request by Inpex Australia to provide answers to the following questions:

#### 1.0 Base Scope

Question	Answer
a) Describe generally the purpose of oil spill modelling.	See addendum, Section 1.0.
b) Develop a report which describes the model conservatism, and how the conservatisms affect model outputs and results, as related to the thresholds presented in (c) and (d) below.	See addendum, Section 2.0 and details below.
c) 10 ppb entrained oil threshold:	
(i) Can you confirm that the 10 ppb entrained threshold, when evaluated through the model, is based on ‘instantaneous exposure’, when the 10 ppb threshold is actually derived from dissolved oil exposure over a time-weighted average?	<p>Yes.</p> <p>The model calculations are analysed for distributions of oil mass in different states (floating, entrained, dissolved, stranded, evaporated) at each model time step.</p> <p>Typically, 15-minute time steps (or less) are used to maximise accuracy of the weathering and transport calculations.</p> <p>Consequently, entrained oil &gt;10 ppb (parts per billion) calculated for durations as short as 15 minutes during any replicate simulation would flag a location as ‘affected’.</p> <p>This flag would only need to occur during 1 of 300 simulations (=0.3% probability of occurrence) for that location to be enclosed by a polygon defining the</p>

	<p>Environment that May Be Affected (EMBA) as defined in the NOPSEMA guideline (2019).</p> <p>A 10 ppb entrained threshold is <u>not</u> based on evidence that 10 ppb of entrained oil droplets (alone) is harmful for either short term (e.g., 15 minutes or for any longer duration (e.g., 48-96 hrs).</p> <p>The NOPSEMA guideline has applied the same threshold for both dissolved and entrained hydrocarbon concentrations as instantaneous exposures. The dissolved threshold concentration was calculated by toxicity studies applying long-term exposures (48-96 hrs of exposure) to the components of oil that can dissolve into water from oil mixtures and no correction for shorter exposure durations has been applied in the NOPSEMA guidelines (see below; part ii).</p> <p>At the outer bounds of the EMBA calculated for a blowout simulation spanning 70 or more days, entrained oil would be present as widely dispersed and insoluble droplets with small diameter (10-50 <math>\mu\text{m}</math>). No insoluble compounds will remain to dissolve into the water to trigger the toxic effects demonstrated by toxicity testing on marine organisms.</p> <p>Direct contact with droplets or consumption of droplets may have influence but risks of influence would depend upon encounter rates, which would depend on the concentration of droplets and the duration that they are present.</p> <p>As an indication of the meaning of the 10 ppb concentration threshold that the NOPSEMA guidelines recommend for entrained oil, this would represent one insoluble droplet suspended in 40,000 L of water for a droplet of 25 <math>\mu\text{m}</math> diameter. It would be necessary to have one million droplets of this size to form a standard drop of oil from an oil dropper (0.05 ml).</p> <p>Consequently, the potential for direct contact by marine biota with a droplet at this threshold concentration when triggered by durations as short as 15 minutes is highly conservative for any consequence through direct contact with droplets.</p>
<p>(ii) Can you describe how the use of instantaneous thresholds in the model may affect the model outputs/geographical areas exposed above threshold?</p>	<p>Instantaneous thresholds have a very large influence upon the geographic extent that is mapped as the EMBA, an influence larger than all other conservative measures applied.</p> <p>Hydrocarbons impose a narcotic effect on organisms through absorption of soluble hydrocarbons from water into their tissue, and it takes longer than 15 minutes for</p>

	<p>harmful soluble compounds to accumulate to levels that impose effect when the concentration of harmful, soluble, hydrocarbons in the water is higher than 10 ppb.</p> <p>Species vary by sensitivity and different oils vary in terms of the toxic components present.</p> <p>The lowest toxic threshold for soluble hydrocarbons (~10 ppb) has been derived as a generic trigger value for potential sublethal influence from a large body of laboratory toxicity testing where exposure has been maintained for 48-96 hrs to ensure saturation of body tissues. A value of ~10 ppb is the lowest value reported for the most sensitive marine species using the water solutions generated from the most toxic oil mixtures.</p> <p>Exponentially higher concentrations are required to achieve equivalent effects over shorter durations. At least 100 times higher concentrations would remain conservative for durations of &lt;1 hr.</p> <p>Instantaneous thresholds treat all areas exposed for a time as short as 15 minutes as if they were exposed constantly for 2 to 4 days (following evidence from toxicity studies).</p> <p>This is very conservative, and reliance on the extent of the EMBA alone obscures information that would be available to show those locations that may be more at risk, such as those locations where longer exposures may occur.</p> <p>Further clarification can be provided.</p>
<p>(iii) Can you comment on how the probability maps/contours generated by the model using instantaneous oil exposure thresholds would be affected, compared to what would occur using time-weighted exposure thresholds?</p>	<p>Comparisons of model calculations for areas that might experience instantaneous exposures (e.g., &gt;10 ppb of entrained oil for 15 minutes) versus time-weighted exposures (e.g., &gt;10 ppb on average over 24, 48 or 96 hours) indicates that the difference depends on the scenario, oil type and component (floating, entrained, dissolved).</p> <p>The outer extent of the EMBA may be reduced to as small as 20% of the surface area (i.e., the surface area enclosed by the EMBA may be reduced by up to 80%) when based on time-weighted exposures.</p> <p>The shape of the EMBA will also typically change to highlight locations where environmental forcing is more likely to direct higher concentrations of spilled material repeatedly or to retain spilled material for longer during a long duration release (e.g., a blowout) – detail that should be relevant to risk assessment, planning and consultation purposes.</p>

	<p>Allowing for as little as 2 subsequent time steps or for 2 records of exceedance at any time during any spill simulation, will result in marked reduction of the geographic area and alter the shape calculated for the EMBA, showing that large parts of the existing EMBA calculations can be due to single, 15-minute, records.</p> <p>Further clarification can be provided.</p>
<p>c) 10 g/m<sup>2</sup> shoreline contact threshold:</p>	
<p>(i) Can you describe how the model calculates oil accumulation volumes on shorelines, in consideration of the modelled shoreline grid-cell/lineal shoreline lengths vs actual/realistic shoreline lengths and the effect this may have on volumes of oil ashore calculated by the model?</p>	<p>Accumulation of oil onto shorelines is calculated as the mass of oil per unit of shoreline area.</p> <p>The coastline at mean sea level is subdivided into fixed, rectangular, grid cells of a defined area described by fixed length and width.</p> <p>For example:</p> <ul style="list-style-type: none"> <li>• 1 km long x 10 m wide (10,000 m<sup>2</sup> area per cell) for blowouts.</li> <li>• 400 m long x 10 m wide (4,000 m<sup>2</sup> area per cell) for diesel spills.</li> </ul> <p>Owing to the grid scale applied, the coastline shape must be simplified in areas of small-scale complexity.</p> <p>Very complex and convoluted shorelines will be represented by a smaller area than reality, adding conservatism by lowering the area used when calculating the mass of oil per unit area.</p> <p>The more complex the coastline the larger the degree of conservatism.</p> <p>If the model calculates that any part of a patch of floating oil contacts any part of a coastline cell, the total mass of oil in that patch is transferred to the coastline cell as a conservative calculation for oil stranding.</p> <p>Any subsequent oil patches that contact that coastline cell will add to the tally in that coastline cell over time.</p> <p>The maximum possible load at any time will be capped at the carrying capacity set for shoreline cells (40 m<sup>3</sup> over 10,000 m<sup>2</sup> for low viscosity oils (condensates and diesel, etc.).</p> <p>Any excess oil will be re-floated and may then accumulate on other coastline cells.</p> <p>Evaporation and degradation are calculated for stranded oil to reduce the tally of oil in a coastline cell over time.</p>



	<p>When all simulations are complete, the highest mass recorded at any time due to inputs versus losses is found for each coastline cell in each simulation.</p> <p>The highest mass from any simulation is divided by the shoreline area of the cell to determine the peak concentration (grams of oil/area in m<sup>2</sup>) as the most conservative calculation for the amount of oil that might be present, for clean-up and other considerations.</p> <p>The peak concentration calculated for each shoreline cell among all replicate simulations is compared to thresholds of relevance.</p> <p>Any shoreline cell with peak mass per area &gt; minimum threshold (e.g., 10 g/m<sup>2</sup>) during any replicate simulation will be included in the EMBA polygon.</p> <p>Note that:</p> <ol style="list-style-type: none"> <li>1. The peak concentration that is calculated will be higher if the surface area available for accumulation is under-represented in the model compared to reality.</li> <li>2. The peak concentration that is calculated may be, and typically is, higher than the concentration that would be calculated at the end of the simulation, after further weathering is allowed for.</li> <li>3. No differential is made between oil on the surface and oil that has entered the substrate.</li> </ol> <p>Further clarification can be provided.</p>
<p>(ii) Can you describe if the model includes consideration of tidal movements or wetting and drying of intertidal areas, and how this may affect modelled oil concentration outputs, vs what might occur in reality?</p>	<p>The model does not account for wetting and drying of the intertidal zone.</p> <p>Both the coastline position and water level are treated as fixed, and calculations assume a fixed average width of the shoreline interface (10 m wide) is always available for accumulation.</p> <p>One outcome at a very local scale is that the model cannot differentiate between the happenstance of oil arriving when the shoreline extends further seaward (at lower tide, exposing a wider zone) or when it might have shrunk back to a narrower zone (at higher tide).</p> <p>Although the intertidal width will vary over time, in reality, and oil might be spread over varying area, the area allowance is assumed fixed to an average of 10 m wide when calculating the mass accumulated per area.</p> <p>In reality, concentrations of oil would likely vary with the tide in areas with very large tidal ranges and low slope,</p>

	<p>and we have applied a fixed width as an assumed average.</p> <p>One conservatism is that shorelines are assumed to be “sticky” – binding the oil to the shorelines with no re-floating due to subsequent tidal flooding.</p> <p>This assumes oil accumulations would migrate up and down, occupying the same width of the shoreline as the tide varied.</p> <p>The exception is if the carrying capacity of the shoreline is exceeded. For condensates and diesel this would only be allowed in the model if the thickness exceeded 4 mm, allowing for high accumulation capacity (e.g., 32 tons per shoreline cell for a 1 km long x 10 m wide shoreline if the density averaged 800 kg/m<sup>3</sup>).</p> <p>Noting that the model domain must cover areas of hundreds of thousands of km<sup>2</sup> for a blowout scenario, the fixed coastline assumptions represent necessary simplifications requiring a conservative approach.</p> <p>Further clarification can be provided.</p>
<p>(iii) Can you confirm if the model continues to calculate oil weathering of stranded oil on a shoreline, specifically evaporation and melting point?</p>	<p>Yes.</p> <p>As stated above (part i), oil weathering continues to apply to oil classed as stranded.</p> <p>Loss of oil mass from coastline cells can occur through three processes:</p> <ol style="list-style-type: none"> <li>1. Evaporation.</li> <li>2. Degradation (representing microbial action and photo-oxidation).</li> <li>3. Re-floating (if the carrying capacity of the coastline cell is exceeded).</li> </ol> <p>The composition of the oil when freshly released at source is represented by the proportion of the whole oil contributed by groups of hydrocarbons, varying by volatility.</p> <p>Composition change is calculated over time through evaporation and dissolution when the oil is floating, and the composition of oil patches is known by the model at the time of stranding.</p> <p>Calculations for variable rates of evaporation, by sub-components, continues for stranded oil until only the non-evaporating residues (boiling point &gt;380 °C) remain.</p> <p>Calculations for evaporation rates are based on wind speed and average ambient temperature (30 °C for the Inpex studies), not elevated temperatures that might occur during daytime on heat-retaining surfaces.</p>

	<p>Calculations for evaporation are, therefore, conservative if evaporating components remain in the stranded oil.</p> <p>If only residues strand, no loss of oil through evaporation will be calculated on shorelines.</p> <p>Degradation is applied to the total mass (regardless of composition) at a fixed rate.</p> <p>A conservative rate of 3% of the mass per day is applied. This rate has been derived from published tests on more complex oil types than diesel or condensate and is considered conservative for condensates in lieu of further research to confirm rates of degradation of both oil types.</p> <p>The model does not calculate for melting point to decide whether the oil is on the substrate (e.g., as solid wax) or in the substrate (e.g., as a melted wax).</p>
<p>(iv) Can you describe if the model takes into consideration the effect of exposed intertidal shoreline temperature (i.e., sand/rock temperature) and the effect this may have on stranded oil including effect on oil melting point and subsequent behaviour of the stranded oil?</p>	<p>Degradation rates do not account for substrate temperature.</p> <p>This will be conservative in settings with high average substrate temperatures because degradation rates do increase at higher temperatures.</p> <p>The same ambient temperature and prevailing wind speeds are used for both floating and stranded oil for calculating evaporation rates.</p> <p>This will be conservative if the oil arrives with volatile content and the real temperatures are higher than assumed (30°C for the Inpex study locations) on average.</p> <p>This would not be conservative if only residues arrive at coastline cells.</p> <p>No calculations are made by the model for the physical state (solid/liquid) of hydrocarbons, or of uptake by sediments. Such considerations would need to be made outside of the model calculations.</p> <p>Further clarification can be provided.</p>

### 1.1 Supplementary Scope

<p>(a) Can you confirm if there are any other factors which may affect conservatisms within the model?</p>	<p>See addendum.</p>
<p>(b) if Yes, can you please explain these additional factors.</p>	<p>See addendum.</p>

## Addendum

### 1.0 (a) Describe generally the purpose of oil spill modelling.

Modelling of oil fate and transport is useful, and has been applied to multiple purposes:

- Calculating risks of exposure to facilities, personnel, interests of other parties and environmental resources if a spill scenario were to eventuate.
- Guiding preparations for response, including identifying those resources that may need to be defended and what responses may be practical given factors such as the nature of the place at risk and the evolution through weathering of the oil type(s) that might be spilled.
- Forecasting the drift and behaviour of oil slicks ahead of real time to guide response to real spills.
- Forecasting the efficacy of alternative response measures.
- Guidance of environmental monitoring efforts to sense influence or impact.
- Post-spill assessment to inform and quantify social, environmental, or commercial impacts.

The first general application is the basis of EMBA calculations at present, but with the results simplified to calculating the area enclosing all locations where greater than low threshold concentrations might occur instantaneously at very low probabilities.

Other calculations from modelling are available and may be applied as contextual measures. These include:

- Mapping locations at higher probability of contact > instantaneous thresholds.
- Mapping locations at risk of longer durations of contact > instantaneous thresholds.
- Mapping locations at higher probability of contact at > time-integrated thresholds.
- Mapping locations based on potential concentrations (maximums and statistical distributions such as mean and higher percentiles).

### 1.0 (b) Develop a report which describes the model conservatism, and how the conservatisms affect model outputs and results, as related to the thresholds presented in (c) and (d) below.

#### General background

In general, oil spill models are a collection of interacting formulae and calculations that have been compiled to best represent current knowledge of processes that affect oil when released into the marine environment.

These processes are complex and interacting, requiring organised formulation to avoid errors and bias.

The formulations are numerical tools that allow comparative testing for different outcomes depending upon the scenario and prevailing conditions, subject to errors and uncertainties in both the inputs and the formulae.

Key processes have been studied to varying degrees over several decades through empirical studies, observations, and laboratory experiments. Some processes and their dependencies are well understood, while others have larger uncertainties and are the subject of ongoing testing and development.

The model formulations allow management of uncertainties through sensitivity allowances and/or conservative calculations or inputs (i.e., arrangements that are more likely to overstate and not understate risks).

### **Potential sources of conservatism**

As a general principle, the ongoing calculation of concentrations over a large number of sequential time steps (e.g., 7,680 contiguous time-steps in an 80-day blowout simulation), with calculations at each time step dependent upon a previous calculation of state, can be expected to lead to magnification of any model errors at the outer distances and durations.

The current NOPSEMA guidance for calculating the EMBA has changed the focus of modelling assessment efforts from identifying locations that are most at risk (typically closer to the source and at risk of contact over shorter elapsed times) to map out only an outer bound of possibilities. One consequence of this is that the EMBA definition is now highly dependent on model capabilities, uncertainties, and compounding of errors in calculations for defining when concentrations will fall below very low concentrations.

The modelling software that I will detail to address model calculations and conservatism is the Spill Impact Model Application Package (SIMAP) that has been applied to most oil spill risk assessments in Australia, including those carried out for INPEX, but considerations will be common to other oil spill models of similar capability.

SIMAP is three-dimensional and is structured as a series of interacting algorithms that consider all known key processes that may affect the transport and weathering of hydrocarbon mixtures:

- Buoyancy (upward vertical transport from subsea).
- Initial spreading due to gravity and surface tension.
- Horizontal transport due to wind and current.
- Spreading (transport in the vertical and horizontal) due to dispersive forces.
- Wave-induced entrainment into the water column (as oil droplets).
- Dissolution (of soluble hydrocarbons) into the water column.
- Vertical dispersion of dissolved hydrocarbons (vertical spreading due to dispersive forces).
- Evaporation to the atmosphere.
- Emulsification (uptake of water into floating oil films).
- Change in viscosity due to change in composition and emulsification.
- Sedimentation (through binding with suspended sediment).
- Shoreline stranding – shoreline specific.
- Re-floating from shorelines (if capacity exceeded).
- Degradation (to component molecules).

The model uses oil composition and physical properties as input, and calculates changes in the mass distribution of the spilled oil over time among six states in response to the release scenario (e.g., onto the water, from subsea blowouts, etc.) and a sequence of environmental conditions:

1. Floating as a film on the water surface.

2. Entrained (at some depth) as oil droplets suspended in the water column.
3. Dissolved (at some depth) in the water column from films or suspended droplets.
4. Evaporated (to the atmosphere).
5. Stranded on a shoreline.
6. Degraded to simpler chemical components (hydrogen, carbons, etc.).

The NOPSEMA guidelines require that the worst-case (or worst plausible case) spill scenario is modelled for a given oilfield operation. For drilling operations into reservoirs where gas/condensates are targeted, that will involve a long-term (>70-day) release of gas and condensate at the highest rate possible through a fully open reservoir.

This scenario will generate the highest potential initial concentrations, both in reality and in the model, and is a conservative starting point.

Key considerations for conservatism in the modelling are calculations for initial concentrations, the initial distribution of oil mass among the states, and processes that affect reductions in the concentrations of oil in each state over time.

Calculations for gas-condensate releases, more so than for heavier oil types, are very sensitive to model calculations of entrainment rates because these oil mixtures have both very low viscosity (hence will be susceptible to entrainment) and are mostly composed of volatile hydrocarbons (hence will be susceptible to evaporation, if exposed to the atmosphere). Entrainment and dissolution are competing fate pathways to floating and evaporation.

Over-prediction of entrainment rates will reduce the evaporation rate that is calculated (a general loss term for calculation of oil mass that would otherwise be on or in the water, or on shorelines) and leads to higher concentrations of entrained oil being calculated further from the source.

Entrainment is calculated for two processes by the model:

- As droplets released subsea (for blowouts).
- Generated by waves breaking up slicks into droplets and mixing the droplets into the surface layer, or keeping droplets that were entrained by the process above mixed into that layer.

Considerable care is required to calculate the initial droplet-size distributions accurately for subsea blowout scenarios involving highly volatile condensates (as opposed to less volatile mixtures) due to the large influence of droplet-size calculations upon entrainment rates versus evaporation rates. Calculations for oil droplet sizes have been an active area of model development and the modelling currently incorporates the most recent calculations from authoritative sources (SINTEF, TAMOC, etc.) but understatement of droplet sizes remains a risk for overstatement of entrainment rates because most research has involved heavier oil types.

Calculations for entrainment due to wave action in the SIMAP model were updated ~5 years ago to new formulations following a large volume of research conducted for the Deepwater Horizon blowout. The updated formulations increased the sensitivity to wave action, lowering thresholds for wind speed required to generate or maintain entrainment for low viscosity oils.

Sensitivity testing suggests that the allowances may be overly conservative for entrainment rates when applied to highly volatile condensates. In turn, calculations

would likely be conservative for dissolution rates and dissolved hydrocarbon concentrations for these products because faster dissolution is calculated for entrained oil than for slicks.

The model will calculate reduction of oil concentrations for surface and subsurface oil concentrations (entrained and dissolved) due to dispersion, representing the spreading and thinning of patches and plumes over time due to the mixing forces in the ocean.

Contemporary calculations for dispersion are typically set for moderate sea conditions for the scenario setting and not for more energetic conditions that can occur. On average, it is expected that this approach will result in maintenance of higher concentrations over longer distances than might occur in reality. The level of conservatism would vary depending on the frequency of occurrence of windy conditions that would trigger breaking sea waves.

A further level of conservatism for calculation of entrainment (increasing dissolution) versus floating (increasing evaporation) for surface releases of highly volatile condensates is the model time step. Highly volatile condensates with a low residue content will flash off rapidly, in reality, when spread thinly onto the water surface. However, calculation at 15-minute steps, which is a practical rate for long term blowout modelling, may underestimate the evaporation rate that is calculated for such condensates and overestimate the calculation for maintenance of entrained oil concentrations above low thresholds. Evaporation rates are calculated to occur at a slower rate for soluble hydrocarbons that are dissolved in surface-waters than at the surface, which could lead to overstatement of dissolved hydrocarbon concentrations exceeding low thresholds.

Some loss of mass is calculated for entrained oil over time due to dissolution of the soluble compounds. These compounds will typically represent a small proportion of the mass of an oil initially (typically 6-12% for condensates) so there would be only a relatively small influence on reduction of entrained oil concentrations.

It is also noteworthy that the model can calculate when entrained oil droplets have lost all soluble components. However, the NOPSEMA guidelines are applied equally to entrained oil that has remaining soluble components and those that have migrated long distances over long time periods and would have weathered to lose all soluble components. Because the EMBA line defines the widest boundaries, it will be the concentrations of weathered entrained oil that are tested against the NOPSEMA guideline threshold.

Degradation rates are applied to allow for reduction of oil concentrations over time. These rates are derived from literature accounts, and different rates are applied to floating, entrained, dissolved, and stranded oil. All rates are assumed to be conservative for condensates, in particular, because they tend to be composed of simpler hydrocarbons than those oils used to measure degradation rates, which could lead to concentrations being maintained for longer distances and durations than might occur, in reality, in warm tropical and sub-tropical settings. The rate currently applied to the insoluble components of entrained oil is a constant rate of ~8% of the mass per day.

Collectively for these uncertainties, calculations for entrainment mass concentrations and dissolved hydrocarbons will tend to be increasingly conservative over many sequential calculations.

The extremely low threshold set by the NOPSEMA guidelines for entrained oil is interacting with the conservative allowances for entrained concentrations for gas

condensates to dominate calculations for the EMBA for both blowout and surface release scenarios for this oil type. In other words, the extent of the entrained oil contour applied to the EMBA calculation is always larger than for any other component.

A further, potential, consequence of maintaining entrained concentrations for longer, in combination with the low threshold set by the NOPSEMA guidelines for oil contact with shorelines (as opposed to accumulation), is that model calculations for re-floating of oil from an entrained state become more critical. The model only needs to calculate that re-floating has led to a small patch of oil at the surface that is equal to or marginally higher than the low threshold (10 g/m<sup>2</sup> on the surface) from an overstated entrained oil concentration to flag a once-off calculation for shoreline exposure at a location that can be isolated by a long distance from the extent calculated for surface slicks to decrease below threshold concentrations when remaining at surface. One such occurrence among 300 simulations will flag a shoreline location for inclusion in the EMBA at a further distance than is indicated for the persistence of surface slicks above the low threshold. Although entrainment and re-floating are real processes that can occur, it is plausible that model errors are responsible for triggering the flagging of some stranding events judged by the low instantaneous threshold at the outer bounds of the EMBA.

## **Scott Langtry**

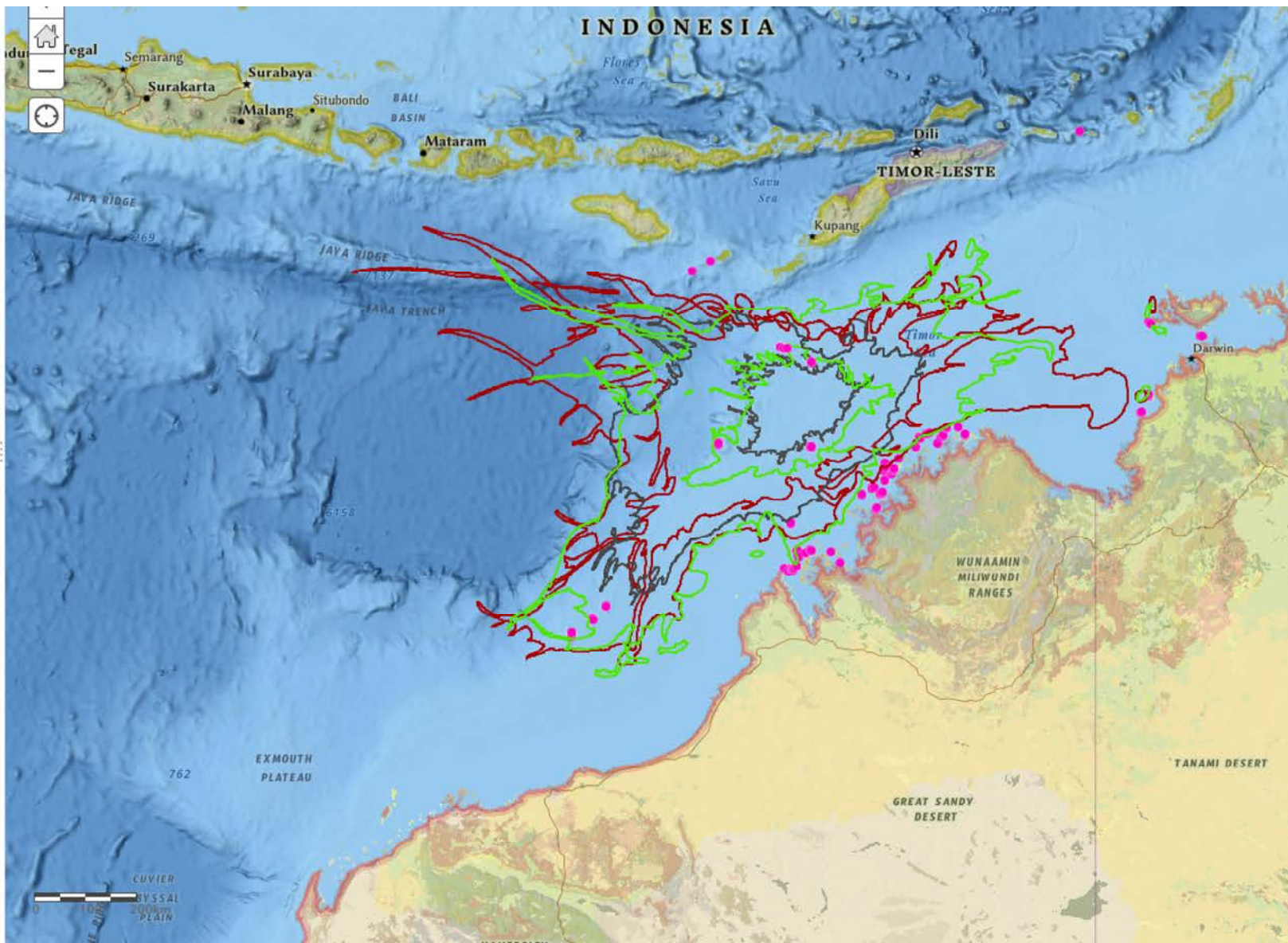
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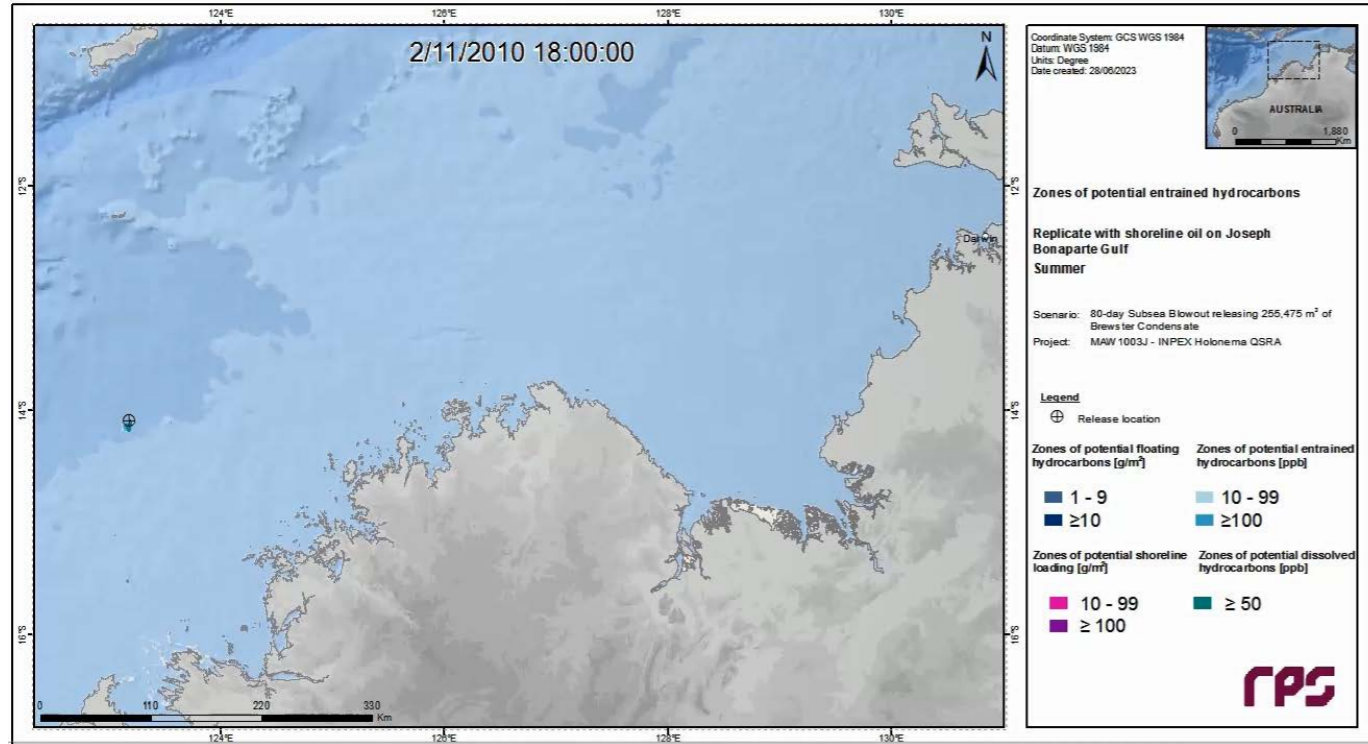
Figure B.7 EMBA for ecological impact assessment

- Legend
- MAW1003J  
(MAW1003J\_SC1\_ANN\_FloatingEMBA\_1gm2)
  - MAW1003J  
(MAW1003J\_SC1\_ANN\_EntrainedEMBA\_100ppb)
  - MAW1003J  
(MAW1003J\_SC1\_ANN\_DissolvedEMBA\_50ppb)
  - MAW1003J - INPEX Holonema QSRA - Scenario 1 -  
Annualised EMBA (2)  
(MAW1003J\_SC1\_ANN\_ShorelineVol\_100gm2)
  - MAW1125J  
(MAW1125J\_SC1\_ANN\_ShorelineVol\_100gm2)
  - MAW1125J  
(MAW1125J\_SC1\_ANN\_FloatingEMBA\_1gm2)
  - MAW1125J  
(MAW1125J\_SC1\_ANN\_EntrainedEMBA\_100ppb)
  - MAW1125J  
(MAW1125J\_SC1\_ANN\_DissolvedEMBA\_50ppb)

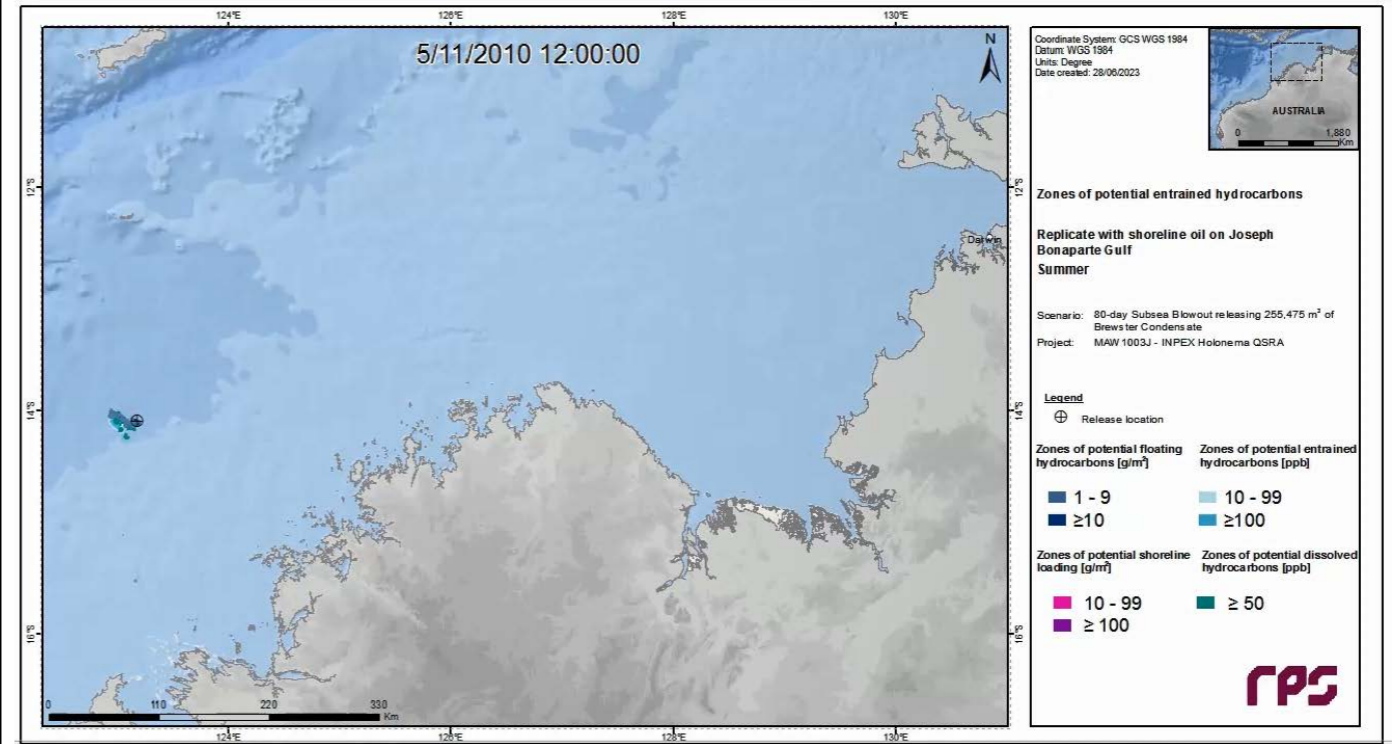


**MAW1125J - WA-343-P**  
**MAW1003J - WA-285-P**

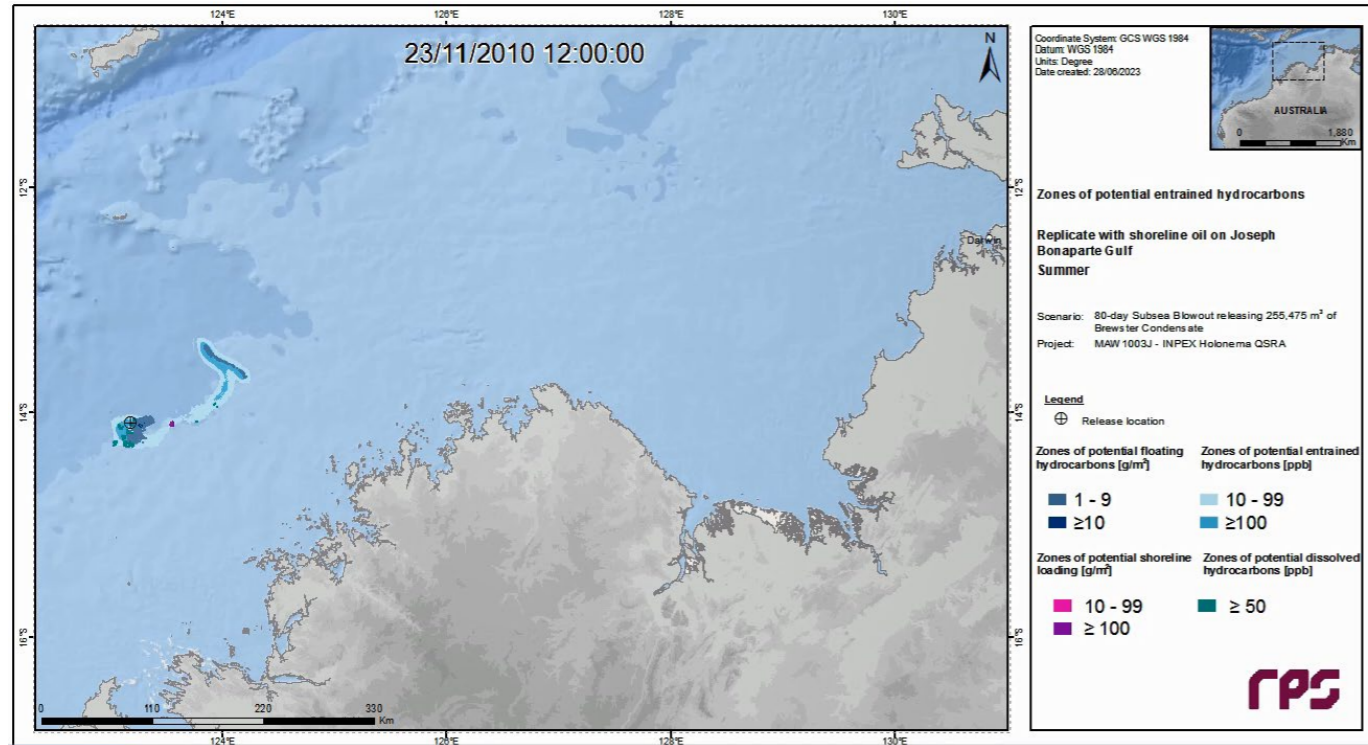
6 hours: Activation of BOP (approx. 4 hours)



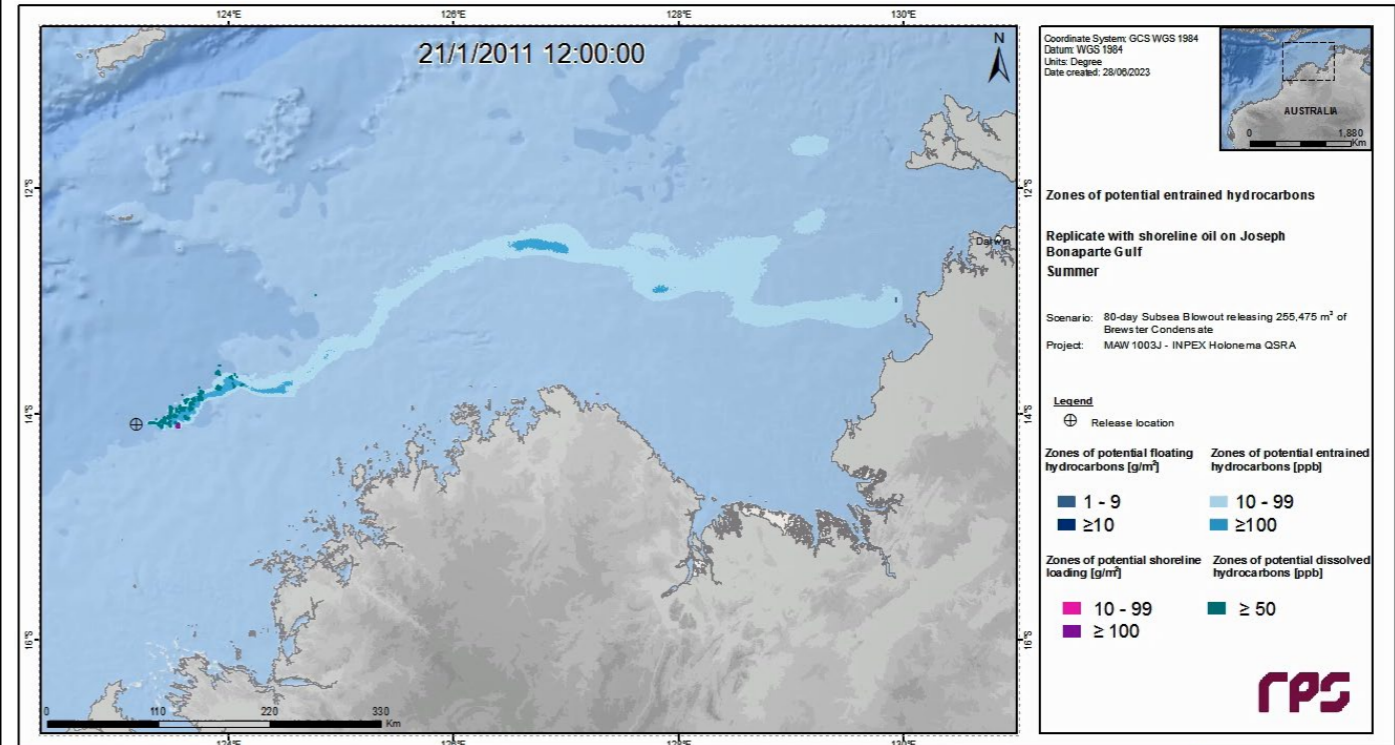
3 days: BOP intervention



21 days: Deployment of capping stack



80 days: Relief well drilling complete



**INPEX**

# **Appendix C- Source Control Capability & Arrangements**





# INPEX Australia Environment Plans - Source Control Capability and Arrangements Report

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REV	Date	Issue Reason	Prepared	Checked	Endorsed	Approved
2	29/04/2022	Issued for use	E Law	R Quaden	T Lee	S Zoller
3	10/08/2022	Issued for use	E Law	R Quaden	T Lee	S Zoller

## RECORD OF AMENDMENT

Revision	Section	Amendment
1	4.6 (Table 4-5)	Environmental performance standards defining timelines for the capping stack mobilisation to the well location and deployment plan and relief well response model activities have been included as a result of the NOPSEMA assessment of the Offshore Facility (Operation) EP
2	Table 1-1; Table 3-1; 4.2 (Table 4-1); 4.6 (Table 4-4)	Tables revised to include Holonema (WA-285-P) and Bassett Deep (WA-343-P) wells. References provided for Exploration Drilling WA-285-P and WA-343-P EP and Browse Basin Common Relief Well Design and Response Time Models Technical Note
	4.5 (Table 4-2)	Capping stack mobilisation times revised to align with the INPEX Capping Stack Logistics Plan (D020-AD-PRC-10039)
3	4.2	Details of source control MODU and vessel availability monitoring and associated adaptive management implementation included
	Table 4-5	Include pre-spud risk review in EPS regarding the maintenance of MODU and vessel availability registers
	5.2; Table 5-2	Include a description of pre-spud risk reviews and adaptive management, to ensure adequate source control MODU and vessel availability. <b>Include new EPS's for the verification of suitable source control MODU's and vessels prior to spudding well.</b> Amend current EPS for MoC'ing changes made as a result of quarterly risk review.

Revision	Section	Amendment

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# 1 INTRODUCTION

## 1.1 Purpose

The purpose of this document is to:

- **Present a summary of INPEX Australia's exploration and production (E&P) drilling; and operations activities in the Browse Basin.**
- Present a summary of the worst credible well blowout scenarios (WCWBS) which could occur from exploration/production drilling activities and from the operation of production wells.
- Provide a detailed source control capability analysis, for the selected WCWBS.
- Define environmental performance outcomes (EPO) and environmental performance standards (EPS) for the source control capabilities and arrangements (preparedness), and the risk assessment of the implementation of the source control capability.
- Provide an implementation strategy for this source control arrangements and risk assessment report, including management of change processes and compliance reporting requirements.
- **Ensure INPEX's** description of source control capability and arrangements as related to Environment Plans (EP) is appropriately described, in accordance with the requirements of Section 3.1 of the NOPSEMA *Source control planning and procedures* Information Paper (N-04750-IP1979).

## 1.2 Limitations/out of scope

Current in-force Ichthys Development Drilling Campaign WA-50-L EP (0000-AD-PLN-60003), from which the source control capability and evaluation content is derived.

This document does not include evaluation and response capability/arrangements associated with the following:

- Environmental risk assessment and spill prevention/control
  - The following elements are contained within each activity specific EP:
    - Detailed activity description
    - Activity specific oil spill hazard identification, including potential release rates, volumes, locations, hydrocarbon types etc.
    - Activity specific oil spill modelling, used to inform environmental risk assessment
    - Description and risk assessment of oil spills on environmental values and sensitivities
    - Evaluation of controls to prevent oil pollution from the described activity.
- Oil spill response
  - Oil spill response for all INPEX Australia EPs are managed under the Browse Regional Oil Pollution Emergency Plan (BROPEP) suite of documents

- Operational and scientific monitoring programs (OSMP)
  - The full OSMP capability requirement is addressed within the INPEX Australia Browse Regional Oil Pollution Emergency Plan (BROPEP) (X060-AH-PLN-70009 – Appendix A).

The inter-relationship of this document to other drilling and environmental documentation is presented in Table 1-1.

Table 1-1: Source Control Documentation Overview

Document title	Document number	Purpose
INPEX Australia Environment Plans - Source Control Capability and Arrangements Report (This document)	D021-AH-REP-70000	The EP Source Control Capability and Arrangements Report provides an <b>evaluation of INPEX's source control capability and arrangements required</b> to conduct a successful well-kill for exploration and production wells in the Browse Basin. This document also provides the environmental ALARP and acceptability statements and implementation strategy, to ensure the ongoing demonstration of source control capability and arrangements.
Loss of Well Integrity Response Plan (WIRP)	D021-AD-PLN-70023	<b>The WIRP's objective is to prevent the escalation of</b> any loss of well integrity and reinstate well integrity as soon as practicable. It: <ul style="list-style-type: none"> <li>• provides an action plan to be taken in the case of a loss of well integrity from a production well; and</li> <li>• identifies and records the required readiness level for the preparation, equipment and services. It describes: <ul style="list-style-type: none"> <li>- the requirements documented as checklists; and</li> <li>- checklists suitable for both planning and audit.</li> </ul> </li> </ul>
INPEX Well Operations Management Plans (WOMP): <ul style="list-style-type: none"> <li>• INPEX Phase 2a WOMP</li> <li>• Holonema (WA-285-P) WOMP</li> <li>• Basset Deep (WA-343-P) WOMP</li> </ul>	0000-AD-PLN-60004 D021-A7-PLN-70000 D021-A7-PLN-70001	The WOMP describes the well activities and associated management systems for drilling and completion; suspension; intervention; and inspection maintenance and repair of INPEX production and exploration wells within their respective permit and licence areas.
INPEX Blowout Contingency Plan (BOCP)	D020-AD-PLN-10040	The purpose of the BOCP is to provide a plan for regaining control of a blowout, not blowout prevention. The BOCP specifies how INPEX will respond to a well control event where primary well control has been lost with potential, or real, complications with secondary well control, extending to the worst case scenario of an uncontrolled blowout with significant hydrocarbon release to the environment and loss of assets.

Document title	Document number	Purpose
Source Control Emergency Response Plan (SCERP)	D020-AD-PRC-10036	The SCERP is designed as a subset of the BOCPP, to support response preparations to well control emergencies and establish a process for responding to safely managing them using a standard uniform approach. It includes the equipment and procedures to address a range of well control scenarios necessitating immediate mobilisation of intervention equipment and personnel.
INPEX Capping Stack Logistics Plan	D020-AD-PRC-10039	The INPEX Logistics plan describes the mobilisation of the Wild Well Control international (WWCI) capping, debris clearance and dispersant equipment (Source Control Equipment) into Australia from point of origin (Singapore) through end delivery point in Australian waters.
INPEX Environment Plans <ul style="list-style-type: none"> <li>• Offshore Facility Operations EP</li> <li>• Ichthys Development Drilling Campaign WA-50-L EP (future revision)</li> <li>• Exploration Drilling WA-285-P &amp; WA-343-P EP</li> </ul>	X060-AH-REP-70007 0000-AD-PLN-60003 0021-AD-PLN-70000	All INPEX EPs contain a detailed activity description and activity-specific oil spill scenarios. Specifically, INPEX EPs include the following: <ul style="list-style-type: none"> <li>• a description of the activity-specific spill scenarios (including the potential well blowout release rates, volumes, locations, hydrocarbon types, etc.)</li> <li>• activity-specific oil spill modelling (used to inform environmental risk assessments)</li> <li>• an assessment of oil spills risks/impacts on environmental values and sensitivities</li> <li>• evaluations of controls to prevent well blowouts.</li> </ul>
INPEX Australia - Browse Regional Oil Pollution Emergency Plan (BROPEP) suite of documents, including: <ul style="list-style-type: none"> <li>• Basis of Design and Field Capability Assessment Report (BROPEP BOD &amp; FCA)</li> <li>• Browse Regional Oil Pollution Emergency Plan – Incident Management Team Capability Assessment Report (BROPEP IMTCA)</li> </ul>	X060-AH-REP-70016 X060-AH-REP-70015 X060-AH-PLN-70009	The BROPEP BOD & FCA report evaluates the oil spill field response <b>capability required for all INPEX Australia’s offshore petroleum exploration</b> and production activities and associated oil spill risks. The BROPEP IMTCA report defines the required IMT capability needed to implement the field oil spill response. The BROPEP is the response document, used by the IMT, to activate and implement oil spill response capabilities during a spill scenario.

Document title	Document number	Purpose
<ul style="list-style-type: none"> <li>Browse Regional Oil Pollution Emergency Plan.</li> </ul>		
Browse Basin Common Relief Well Design and Response Time Models Technical Note	0021-AD-TCN-70000	The purpose of the technical note is to document common relief well design including the supporting simulation work as well as the response time models for various INPEX drilling projects.

## 2 INPEX AUSTRALIA EXPLORATION AND PRODUCTION ACTIVITIES OVERVIEW

INPEX Ichthys Pty Ltd, on behalf of the Ichthys Upstream Unincorporated Joint Venture Participants, is developing the Ichthys Field in the Browse Basin off the north west coast of Western Australia to produce condensate offshore for export to markets in Japan and elsewhere, and export gas for further processing at the Ichthys liquefied natural gas (LNG) plant in Darwin.

Initial development wells were drilled and the Ichthys LNG offshore facilities were installed and commissioned from 2014 through to 2018. The assets commenced production in July 2018 and now routinely ship cargoes of condensate from the FPSO to international customers and send gas to the Darwin plant via the Gas Export Pipeline.

The existing facilities consist of a subsea production system (SPS) (E.g., xmas trees (XT), manifolds, subsea control systems and umbilicals, risers and flowlines (URF), and the gas export riser base (GERB), which connect the wells to the Central Processing Platform (CPF) Ichthys Explorer and Floating Production Storage Offtake – (FPSO) Ichthys Venturer

The CPF/FPSO, GEP and onshore Ichthys LNG plant are collectively referred to as the Ichthys Project.

**INPEX Australia's offshore exploration activities are focused on identification of additional petroleum reserves to tie-back into the Ichthys Project, either at the CPF/FPSO, or onto any of the five hot-tap-tees along the length of the GEP, within the Canning, Browse and Bonaparte basins. Therefore, exploration activities, including exploration/appraisal drilling, are generally located within the same geographic area as the Ichthys Project in Commonwealth waters between Broome and Darwin.**

### 3 WORST CREDIBLE WELL BLOWOUT SCENARIOS

To determine source control capability requirements, an evaluation of current INPEX production, and planned exploration wells has been undertaken. A summary of key well data is provided in Table 3-1.

As detailed in Table 3-1, the Plover reservoir has a higher gas flowrate potential than the Brewster reservoir and is therefore the worst-case scenario from a well kill perspective (Wild Well Control 2019).

Table 3-1: Comparison of well-blowout modelling data

Model	Brewster Production Phase 1	Plover Production Drilling Phase 2	Holonema (WA-285-P)	Bassett Deep (WA-343-P)
Release location (coordinates)	<b>13° 52' 46.2" S</b> <b>123° 19' 3.0" E</b> Approximately 35 km north west of Browse Island.	13° 54' 17.14" S 123° 09' 53.93" E Approximately 47 km north west of Browse Island.	<b>14° 05' 35.4" S</b> <b>123° 10' 37.9" E *</b> Approximately 19 km north west of Browse Island.	<b>13° 22' 52.4" S</b> <b>123° 24' 02.2" E</b> Approximately 68 km north of Browse Island.
Oil type	Brewster condensate	Plover condensate	Primary: Brewster condensate	Plover condensate
Reservoir pressure (psia)	6020	6683	6020	7,572
Gas flowrate (MMscf/day)	577	735	577	400
Oil flowrate (m <sup>3</sup> /day)	3193	1082	3193	867
Release duration (days)	80	108	80	115
Total release volume (m <sup>3</sup> )	255,475	116,856	255,475	99,705
Well bore size - internal diameter (inches)	<b>8.5"</b>	<b>8.5"</b>	<b>8.5"</b>	<b>8.5"</b>
Well blow-out modelling report	C020-AD-TCN-00023	X080-AD-TCN-10084	C020-AD-TCN-00023	0000-AD-TCN-70006

\*indicative



## 4 SOURCE CONTROL CAPABILITY AND ARRANGEMENTS EVALUATION

As described in INPEXs EPs, should a loss of well containment event occur during a drilling activity or from a producing well, a number of source control activities may be implemented depending on the specific circumstances of the loss of well containment.

For a production well, a range of loss of well integrity events are considered within the Loss of Well Integrity Response Plan (WIRP). Tier 1, Tier 2 and Tier 3 category events as described in API RP 754 / IOGP Report 456 are covered by the WIRP. The well intervention based response options covered by the WIRP include:

- relief well and / or capping stack.
- ROV intervention (light and heavy)
- well intervention – light well intervention (LWI) (DP vessel)
- well intervention – emergency disconnect package (EDP) /lower riser package (LRP) (MODU)

Source control activities for Tier 1 and 2 category events are presented in the following section.

### 4.1 Relief well and capping stack response options

A relief well plan for the INPEX Brewster and Plover wells has been finalised, utilising specific well kill modelling results to complete the relief well design. The modelling considers a number of factors including well geometry, reservoir pressure, temperature, permeability and reservoir fluid properties (as described in Table 3-1).

Depending on the loss of well containment scenario other source control activities may be required to assist in regaining control such as ROV based systems for seabed debris clearance, BOP intervention and/or well capping.

### 4.2 Source control MODU and vessel availability

INPEX monitors the availability of source control MODUs and vessels, maintaining monthly registers and shipbrokers reports, which are developed using defined criteria to ensure the most suitable MODUs and vessels are identified for respective source control activities.

#### 4.2.1 Relief well MODU

INPEX maintains two registers for relief well MODUs, one which includes a global list of available MODUs and another, filtered to identify those relief well MODUs meeting minimum requirements, defined by the respective dynamic well kill study reports. Each report defines the minimum MODU and equipment criteria required for relief well planning purposes.

In addition, MODU safety case status is monitored in the register to ensure response time models described within Table 4-1 can be met.

Pre-spud and quarterly risk reviews, as described in Section 5.2 will be conducted. These reviews interrogate current MODU market reports and availability registers to verify the availability of capable relief well MODUs in advance of and during the activity.

In the event identified relief well MODUs are not available or are further afield than required for the respective response time model, adaptive management measures will be implemented which will assess alternative MODUs and arrangements to ensure the described response times detailed in Table 4-2 are met.

The MODU availability registers contain details of the following criteria:

- MODU name, type and contract status (24 month LAH)
- Current regional location
- MODU specifications (as required by current respective dynamic well kill reports) including:
  - water depth capability (1500+ ft)
  - BOP specifications (15K+ psi, 5+ Rams)
  - mud pump number/specifications (3+/1500+ HP)
  - drilling fluid storage capacity
  - variable deck load
- Jurisdictional safety case status (NOPSEMA/ UK/ AOC)

#### 4.2.2 Capping stack deployment vessel

INPEX monitors availability of vessels through monthly shipbrokers reports, which include capping stack deployment and debris removal vessels that may be required in the event of source control activities.

Current reports identify suitable vessels, required to meet minimum criteria for each source control activity, as defined in the INPEX Capping Stack Logistics Plan, Capping Stack Landing study and described in Table 4-4. The shipbroker report is designed to include a range of vessel capabilities that suit each source control activity. The following criteria have been used:

- Capping stack deployment: minimum of 120T active heave compensated (AHC) crane onboard
- Debris removal: minimum of 150T AHC crane (or greater) onboard
- Asia / Pacific region (3,400 nm from northern Australia)
- deck area
- DP2 redundancy
- working class ROV

Pre-spud and quarterly risk reviews will be conducted which interrogate the ship brokers reports, to ensure the availability of identified vessels.

In the event suitable vessels are not available or are further afield than described in the respective response time model, adaptive management measures will be implemented which will assess alternative vessels and capabilities and the associated capping stack landing requirements to ensure the described response times detailed in Table 4-2 are met. That is, consideration may be given to suitable vessels that exceed (or fall below) optimal requirements for respective activities.

#### 4.3 Summary of relief well analysis

INPEX engaged third-party specialist to undertake a relief well and dynamic well kill study for the Brewster and Plover production wells in WA-50-L (Add Energy 2019) and the exploration well in WA-343-P (Add Energy 2022). The dynamic well kill portion of this study models a blowout rate for given subsurface and well architecture parameters and then models the kill rate for a given kill fluid density required to kill the well.

NORSOK D-010 Rev 5 (Standards Norway, 2021) Section 5.8.1 gives clear guidance on the assumptions to be used during dynamic well kill modelling and these are outlined as follows:

- expected values for reservoir parameters (pore pressure, permeability, porosity, net gross pay, etc.)
- expected top of reservoir depth
- expected productivity index / transient productivity index
- expected fluid type parameters, if oil is expected, but gas cannot be disregarded both cases shall be simulated
- mechanical skin is zero
- no restrictions in the flow path
- planned well design (hole size, casing setting depth, etc.).

The modelling and subsequent analysis of logistical requirements presented in Browse Basin Common Relief Well Design and Response Time Models Technical Note (0021-AD-TCN-70000) has determined the design for and duration of, relief well drilling for a range of Ichthys and non-Ichthys wells in the Browse Basin. These include Ichthys Brewster and Plover wells; standard or normally pressured exploration wells (i.e Holonema); and high pressure and high temperature (HPHT) wells (i.e. Bassett Deep), all with a single well kill achievable in both reservoirs. These durations are summarised and presented in the form of a response time model in Table 4-1, developed in accordance with the Australian Offshore Titleholders Source Control Guideline (APPEA 2021).

Table 4-1: Summary of time response models for Brewster and Plover reservoirs (Browse Basin Common Relief Well Design and Response Time Models Technical Note)

Activity	Brewster reservoir Ichthys (days)	Plover reservoir Ichthys (days)	Exploration standard - Holonema (days)	Exploration (HPHT) - Bassett Deep (days)
Relief well MODU mobilisation	28	28	28	28
Relief well construction	35	63	35	70
Ranging and intercept (incl. kill)	17	17	17	17
Total duration	80	108	80	115

The MODU used to drill the relief well will need a NOPSEMA accepted Safety Case Revision (SCR). A total of 28 days has been scheduled for the development, submission and acceptance of the SCR by NOPSEMA. An indicative schedule for the SCR approval is as follows:

- Day 0-1 – MODU(s) identification
- Day 1-2 – SCR development schedule created. Engagement meeting with NOPSEMA held to advise of submission schedule and request all attempts be made to assess SCR as a matter of priority
- Day 2-16 – SCR developed including HAZID with contractor personnel. Partially populated SCR template used as a starting point
- Day 16 – SCR submitted to NOPSEMA
- Day 16-23 – SCR Request For Further Written Information (RFFWI) received
- Day 26 – SCR resubmitted to NOPSEMA
- Day 28 – SCR accepted by NOPSEMA.

INPEX have prepared Scope of Validation templates for both Capping Stack Installation and Relief Well Drilling campaigns.

INPEX tracks the availability of MODUs capable of drilling a relief well on a monthly basis. The register includes whether the vessel currently has a valid Australian safety case and is provided to key source control team members. In addition, on a quarterly basis the latest edition of the register will be reviewed as part of exploration and production drilling EP quarterly risk reviews.

#### 4.4 Relief well supply base capabilities and mud requirements

If required, drilling a relief well will necessitate supporting a MODU and other source control operations. INPEX operates an existing supply base in Broome which has previously supported a two MODU operations during the Phase 1 Ichthys development drilling campaign and will have sufficient arrangements in place for the Phase 2 Ichthys development drilling. At times, INPEX will likely also be supporting other exploration drilling operations in the region at the same time. Broome is now established as a mature oilfield supply centre with at least one liquid mud plant and cement plant in place. If additional resources or lay down area was required, INPEX operates a supply base in Darwin for its production operations which could also be utilised in the event of a source control operation.

Modelling shows that the well is killed relatively quickly (within 45 minutes) and liquid requirements are easily accommodated by typical relief well candidate MODUs operating in the country. Mud/kill fluid will be supplied through the above-mentioned supply bases.

#### 4.5 Summary of capping stack feasibility analysis

High energy gas wells located in relatively shallow water (as seen in the Browse Basin) can present challenges with safe vertical access due to the resulting surface boil and Lower Explosion Limit (LEL) hydrocarbons associated with a well blowout. This in turn can preclude the deployment of a capping stack. This being said, INPEX are a member of a **capping stack consortium and have access to a primary 15,000 psi, 18 ¾" capping stack** in Singapore and the equivalent as secondary in Aberdeen. Because of this, INPEX undertook a capping study with the provider of this stack (Wild Well Control 2019).

This study involved computational fluid dynamics modelling to show the behaviour of the stack as it is landed on a flowing well with expected Plover reservoir properties (Plover reservoir has higher gas pressure than Brewster reservoir and is therefore a worst-case scenario). The study found that “the capping stack is able to move through the discharge plume in a controlled manner and can potentially be landed on the wellhead” (Wild Well Control 2019).

The study (Wild Well Control 2019) then looked at the behaviour of the subsea plume as it rises in the water column and then the dispersion of any gas at the sea surface, in order to infer if vertical access is possible. It was determined that with assumed current and wind conditions, the plume would be displaced 50 m downstream of the well centre but the 10% LEL radius extends up to 60 m upwind. This means that, if limited to 10% LEL, the closest a construction vessel could get to the well centre is 10 m. Therefore, deployment of the capping stack could be possible subject to crane capacity on the selected construction vessel.

While direct vertical access has been determined as not possible for the modelled Plover discharge rate, there are influences that would likely reduce the discharge rate and thus enable vertical access. These are outlined as follows:

- The situation may be a drilled kick escalating to blowout meaning less net pay and possibly non-Plover reservoir (being of lower quality)
- There may be wellbore flow restrictions which are likely to occur from:
  - Drill-string remaining in the hole (drilled kick/dropped drill-string) partial closure of BOP due to activation during/after the event from MODU or vessel
  - flowing zone collapse/bridging.

#### 4.6 Assessment of capping stack deployment duration

Opting for capping as the primary means of containment yields a reduction in the time to contain the well. An operational analysis of capping stack mobilisation by air and vessel (sea freight) has been conducted and the options detailed in the INPEX Capping Stack Logistics Plan (D020-AD-PRC-10039). Vessel mobilisation has been assessed as the quickest option and is summarised in Table 4-2 below.

Table 4-2: Deployment of capping stack – vessel freight option

Item	Maximum duration (days)	Comments
Mobilise personnel and equipment	4	Call out to arrival of crew in Singapore warehouse. Mobilise equipment including Fugro ROV skids to Kim Heng.
Source and mobilise construction vessel to Singapore (concurrent operation)	(3)	Typical response time based on market knowledge of suitably rated vessels with Australian Vessel Safety Cases. An appropriate vessel will be identified on INPEX register, updated monthly, tracking the location and availability of HLVs in the SE Asian region.
Stack up and test capping stack in Singapore and ready for load out (concurrent operation)	(3)	Based on capping stack mobilisation schedule stack-up and testing of capping stack in Singapore.

Load out capping stack on to construction vessel from Singapore	3	Based on logistics plan from provider
Transit capping stack directly to licence area	7	Typical sailing time from Singapore to well location with some minor allowance for weather on route.
Deployment of capping stack onto well and shut-in of well	7	Assumes vertical access is possible with an allowance for unfavourable metocean conditions during deployment
Total	21	INPEX Capping Stack Logistics Plan (D020-AD-PRC-10039)

Running in parallel with the above timeframe, a SCR for a capping stack deployment vessel would also be developed and submitted to NOPSEMA for acceptance. An indicative schedule for the SCR approval is as follows:

- Day 0-1 – vessel(s) identification
- Day 1-2 – SCR development schedule created. Engagement meeting with NOPSEMA held to advise of submission schedule and request all attempts be made to assess SCR as a matter of priority
- Day 2-12 – SCR developed including HAZID with contractor personnel
- Day 12 – SCR submitted to NOPSEMA
- Day 12-19 – SCR RFFWI received
- Day 21 – SCR resubmitted to NOPSEMA
- Day 22 – SCR accepted by NOPSEMA

INPEX tracks the availability of vessels capable of deploying a capping stack on a monthly basis. The register includes whether the vessel currently has a valid Australian safety case and is provided to key source control team members. In addition, on a quarterly basis the latest edition of the register will be reviewed as part of exploration and production Drilling EP quarterly risk reviews.

#### 4.7 Evaluation of source control capability and arrangements

Table 4-3 presents an evaluation of the applicability of various source control options.

Table 4-4 presents further information regarding the environmental benefits and merit in improving the implementation of source control activities (i.e. implementing controls to a greater extent or within a faster timeframe and associated cost benefit considerations).

Table 4-5 presents the environmental performance outcomes, environmental performance standards and measurement criteria, related to the preparedness and implementation of source control activities.

Table 4-3: Evaluation of applicability of source control response options

Source control response technique	Likelihood of success	Considered for implementation
Site survey	<p>Site survey involves the use a response vessel and ROV to conduct visual/sonar observations, to determine the condition of well and BOP and search for any debris, following the source control event. This information is required, to enable the source control team to conduct detailed planning for all source control activities.</p> <p>A detailed assessment of the logistical resources required to implement this response strategy are described in Table 4-4</p>	Yes
Debris clearance	<p>Debris clearance involves the use of response vessel(s) with cranes/lifting equipment and work-class ROVs, equipped with cutting tools, to cut and relocate/recover debris on the seabed, to enable other response strategies such as BOP intervention, capping stack deployment and mooring a relief well MODU to occur safely.</p> <p>A detailed assessment of the logistical resources required to implement this response strategy are described in Table 4-4</p>	Yes
BOP intervention	<p>BOP intervention involves the use of response vessels and work-class ROVs with tooling to enable an additional hydraulic power source to power some BOP functions. The BOP intervention tooling can be used to attempt to close the shear-rams of the BOP to stop the flow from the well and/or unlatch the Lower Marine Riser Package to allow its removal for the installation of the capping stack.</p> <p>A detailed assessment of the logistical resources required to implement this response strategy are described in Table 4-4</p>	Yes
Capping stack	<p>A capping stack response involves the use of a heavy lift vessel (HLV) to lower and latch the capping stack on the blowing well, to stop the flow from the well.</p> <p>A detailed assessment of the logistical resources required to implement this response strategy are described in Table 4-4</p>	Yes
Capping stack – offset installation equipment	<p>INPEX is aware of new technology developed by Saipem and marketed by Oil Spill Response Limited (OSRL) in the form of Offset Installation Equipment (OIE). The OIE is designed to deploy a capping stack on a blowing well where vertical access is not possible. It is essentially a mobile subsea crane which is used to perform debris clearance and then pick up a capping stack from a subsea parking stand and deploy it, though the discharge plume and on to a blowing well.</p>	No



	<p>INPEX do not believe that the proactive gaining of access to this equipment for the planned operations in WA-50-L is in line with ALARP principles for the following reasons:</p> <ul style="list-style-type: none"> <li>• Mobilisation: the equipment is stored in Trieste, Italy and is believed to include nearly 170 packages with a shipping weight of 300 t. The carrier itself is 14 m x 13 m x 10 m in dimension and as such, mobilisation can only be undertaken by sea, not by air. Further consideration has been made to assess the possibility of airfreighting the equipment. The equipment would require disassembly in order to be of an appropriate size to travel by aircraft. Disassembly of just the carrier is predicted to result in approximately 43 packages. These would then require to be transported in around 20 aircraft given the size of the packages. On this basis, the potential to airfreight the equipment in order to decrease the mobilisation time from Italy to Australia has been discounted given the time-saving gained by airfreighting is lost due to the additional time required for disassembly and reassembly. Whether by sea or air, the long mobilisation duration erodes the time saving realised by capping relative to a conventional relief well kill.</li> <li>• Deployment mass: the deployment mass is understood to be up to 300 t. This is roughly three <b>times the mass of a 15,000 psi 18 ¾" BOP style capping stack. It is understood that a 400t crane is</b> quoted as the minimum requirement for the installation vessel and it is stated that this is what was used during a field deployment trial. INPEX participated in an OIE workshop with other titleholders in May 2019, and at that time it was stated that the original equipment manufacturer of the OIE identified a minimum 600t crane vessel as being required. It was then noted from a marine advisor participating in the workshop that due to the overturning moment during the deployment of the OIE carrier, significant re-ballasting operations would be required, and this would likely necessitate a much larger vessel to maintain stability during the lift. The crane rating of such a vessel was stated at 900t. Nonetheless, despite the stated true minimum crane rating, it is noted that there are other <b>minimum specifications, notably around the "active/passive anti roll system" and "ballasting capacity sufficient to minimise the installation and recover time of the OIS" which call for a</b> specialised and likely large vessel. This vessel would be more specialised and larger, and thus less readily available than a vessel suitable for a standard capping stack deployment in the case of vertical access being possible. This greatly reduces the number of candidate vessels in the region, let alone those with current Australian Vessel safety cases. Less readily available means a longer response time and a further demonstration that OIE is not ALARP when compared to a relief well kill in the case where vertical access for capping is not possible.</li> <li>• Debris clearance capabilities: it is understood that that OIE can perform some debris clearance tasks, including lifting debris up to 160 t. While this may be sufficient to remove a LMRP from a BOP, it is unclear what capabilities exist for the clearance work prior to this operation including but not limited to the deployment of super shears to sever riser and the like, if required.</li> </ul>	
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	<ul style="list-style-type: none"> <li>• Local fabrication: the OIE scope of supply excludes some significant equipment including but not limited to three gravity anchors and a subsea parking stand for the capping stack. It is understood that this fabrication would require up to 500t of steel and it is estimated that even a significant supply hub such as Darwin would struggle with the scale of this fabrication. This may drive the sourcing of this fabrication to a regional hub such as Singapore which could place this fabrication on the critical path and further erode the time saving realised by capping relative to a conventional relief well kill.</li> <li>• Exclusion zone: while theoretically vertical access is not required with OIE, access into 500 m is required for the initial deployment of the carrier and support operations with ROVs during capping operations. With unfavourable metocean conditions and a high energy blowout, even this may be difficult, particularly with at least 5 vessels being required (2 x anchor handlers on either side of boil for initial deployment, 1 x survey, 1 x construction, 1 x air supply). Relief well planning performed for WA-50-L has spud locations 2,000 m away from the blowing well centre which is well beyond the downwind/down current extent of 10% LEL radius of 1,100 m.</li> <li>• Localised soil conditions: The unique carbonate shallow soils present in the Browse Basin have posed significant challenges to well structural design to date and it is understood they are out with the acceptable range verified by Saipem as part of the design validation for the OIE anchors. While this does not preclude the use of the OIE, a revised anchor design needs to be generated in order to achieve the required 50 t capacity of each of the three anchors if they are to be deployed in the Browse Basin.</li> <li>• Drag chain contact with seabed: For stability, the carrier requires a drag chain to be in contact with the seabed at all times. Ichthys drill centres are surrounded by a complex array of SPS infrastructure. The transit of the carrier, and its drag chain would need to be carefully evaluated, at the time of the blow-out, to determine if it was safe to attempt to run the drag chain through possible approach corridors without causing additional damage and possible gas/oil releases to the environment, through additional damage to existing subsea infrastructure. These corridors may be incompatible with the prevailing metocean conditions and the resulting surface boil location and geometry, thereby preventing the safe conduct of the activity.</li> <li>• Contractual arrangements: It is understood that OSRL have been unable to negotiate post event contractual terms with Saipem as the Original Equipment Manufacturer of the OIE. Existing contractual agreements only cover training and maintenance of the system however ultimately Saipem would need to operate the system. This is seen to be a significant issue as such contracts would need to be brokered during mobilisation.</li> </ul>	
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	<p>The OIE is an extremely complex spread of equipment and as outlined above, comes with attendant risks, any of which if realised, may preclude its deployment. Fortunately, the system has not been used to respond to an actual source control event but that makes it, as yet, unproven. Comparing this with a well-established source control method of intersection with a relief well and dynamic well kill, it is seen that the proactive gaining of access to OIE is not ALARP for operations in WA-50-L or other near-by exploration drilling activities.</p>	
Relief well	<p>A relief well can be drilled to intercept the original wellbore close to the reservoir. Kill fluid is then pumped through the relief well into the original well-bore, to provide an overbalance pressure to the reservoir, and stop the flow of hydrocarbons from the well. To conduct the relief well, a MODU with support vessels is required. In addition, extra vessels with additional drilling fluid and pumping equipment may be required, for the well kill activity.</p> <p>Following the well kill, the MODU will use the relief well to isolate and abandon both wells.</p> <p>A detailed assessment of the logistical resources required to implement this response strategy are described in Table 4-4</p>	Yes
Use of relief well injection spool	<p>INPEX is aware of new technology developed by Trendsetter Engineering in the form of the Relief Well Injection Spool (RWIS). The RWIS is a spool piece with side outlets installed below the BOP of the relief well which facilitates the connection of more surface pumping resources. These additional resources can deliver greater kill fluid rates to the relief well.</p> <p>As all WA-50-L development wells can be killed with a single relief well using mud pumping resources available on standard MODUs, the use of the relief well injection spool would not be required.</p>	No
Subsea dispersant injection	<p>SSDI involves the use of an ROV, to inject dispersant directly into the hydrocarbon stream flowing from the damaged well. The outcome of SSDI is a significant increase of entrainment of oil in the water column. By increasing the proportion of hydrocarbons becoming entrained, there will be a reduction in hydrocarbons arriving on the ocean surface, and an associated reduction in hydrocarbons evaporating into the atmosphere.</p> <p>Modelling results (RPS 2019) indicates that under a worst-case blowout scenario, VOC concentrations (from oil evaporating into the atmosphere) are likely to exceed safe exposure thresholds within 1 km of the release location. The workforce onboard vessels conducting source control activities such as BOP intervention, debris clearance and capping stack installation could therefore be exposed to VOCs, and if gas monitoring indicated exposure had exceeded the VOC thresholds, the vessel would be required to cease the activity move out of the area. In effect, VOC exposure may impact the feasibility of debris clearance/capping stack installation and ultimately limit available source control options to drilling a relief well.</p>	Yes

	<p>Modelling results (RPS 2019) also concluded that SSDI would eliminate the risk of VOCs exceeding exposure thresholds. Therefore, the use of SSDI to significantly reduce the VOC risk to source control vessels/workers may contribute to the feasibility of capping stack, instead of a well kill via relief well, which would take several more months to achieve.</p> <p>A detailed assessment of the logistical resources required to implement this response strategy are described in Table 4-4.</p>	
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Table 4-4: Source control arrangements and capability evaluation

Source control element	Can a greater response effort be implemented?	Can the time to respond be improved?	Justification for increased response effort/reduced response time
<p>A vessel with an observation or work-class ROV is required to undertake the site survey and record / report visual observations of the well location and surrounding area and will be in Broome within 7 days.</p> <p>The location and availability of support vessels with ROVs will be tracked on a register which is updated on a monthly basis.</p>	<p>Only a single vessel with a single ROV is required for site survey activities. Additional vessels and/or ROV's will not result in any better information being provided to the source control team, to facilitate ongoing source control planning.</p> <p>Therefore, a single vessel and ROV is appropriate.</p>	<p>A support vessel with ROV would be identified from within Australia and would be expected to arrive and commence mobilisation activities in Broome, within 7 days.</p> <p>INPEX's drilling support vessels and Ichthys Field support vessels are not required to be equipped with ROVs.</p> <p>The cost of maintaining a vessel with full ROV spread and ROV crew at all times on a support vessel is estimated to be ~\$65,000 a day and not considered ALARP given the cost and many vessels with ROVs can be made available on short notice within the region.</p> <p>Typically, several support vessels with ROVs are located in the NW region, with additional vessels around Australia / SE Asian region capable of completing the site survey.</p> <p>To track and identify capable support vessels and ROVs, the most practicable option is to maintain an up to date register of suitable available support vessels.</p>	<p>No additional site survey response capability required.</p>
<p>A Construction Support Vessel (CSV) with lifting equipment of 150t lifting capacity and work-class ROVs will be utilised, if required, for debris clearance and will be in WA-50-L within 17 days.</p>	<p>Only a single CSV equipped with work class ROVs and lifting equipment rated for 150t is required for debris clearance.</p>	<p>A CSV with lifting equipment rated for approximately 150t with a work-class ROV would be identified and contracted from within Australia or the SE Asian region within 10 days and would arrive in the licence area within 17 days.</p>	<p>No additional debris clearance vessel response capability required.</p>

Source control element	Can a greater response effort be implemented?	Can the time to respond be improved?	Justification for increased response effort/reduced response time
<p>The location and availability of a CSV with suitable lifting equipment and work-class ROVs will be tracked on a register which is updated on a monthly basis. The status of vessel safety cases will also be maintained on the register.</p>		<p>A vessel with a reduced lifting capacity may be used for debris clearance if available and post debris clearance planning using the information presented by the site survey team.</p> <p>Identification and contracting/mobilisation will typically commence when initial source control planning begins.</p> <p>Response time could be improved by maintaining a CSV on stand-by. However, until site survey activities have been conducted and results evaluated by the source control team, it is unknown if debris clearance is even required. Therefore, the large costs of maintaining a CSV on stand-by (~\$225,000 per day) are not considered ALARP, especially given CSVs with ROVs can be made available within the region.</p> <p>To ensure the availability, the most practicable option is to maintain an up to date register of suitable, available vessels and their safety case status.</p>	
<p>Debris clearance ROV tooling is required for debris clearance activities. The AMOSC subsea first response tool-kit (SFRT), is located in Perth and will be in Broome within 3 days.</p> <p>Wild Well Control Inc (WWCI) debris clearance equipment is available in</p>	<p>Debris clearance equipment such as drill pipe and riser cutting shears are specifically designed tools for specific tasks, which typically only need to be utilised once during the debris clearance activity.</p> <p>Primary and redundancy equipment is available through the AMOSC and WWCI contracts.</p> <p>There is no benefit to increasing the quantities or capabilities of debris clearance equipment.</p>	<p>Debris clearance equipment will be mobilised when the initial source control planning begins.</p> <p>The AMOSC SFRT can be mobilised, by road to Broome, within 3 days.</p> <p>The WWCI debris clearance equipment can be mobilised by air to Broome within 5 days.</p>	<p>No additional debris clearance tooling capability required.</p>

Source control element	Can a greater response effort be implemented?	Can the time to respond be improved?	Justification for increased response effort/reduced response time
<p>Singapore, with back-up equipment based in the United Kingdom. Primary equipment will be in Broome within 5 days.</p>		<p>The debris clearance tooling will likely arrive in Broome before the debris clearance vessel, and whilst site survey and initial source control planning is still occurring.</p> <p>If the debris clearance vessel is mobilising directly to the licence area, a small charter vessel can rapidly mobilise the debris clearance tooling from Broome to WA-50-L. Therefore, maintaining additional debris clearance equipment in Broome is not considered ALARP.</p>	
<p>Support vessel with work-class ROVs and BOP intervention tooling (hot stabs) are required for the BOP intervention activity.</p> <p>The location and availability of support vessels with work-class ROVs will be tracked on a register which is updated on a monthly basis and a support vessel with work-class ROVs and BOP intervention tooling will be in Broome within 10 days.</p>	<p>Only a single vessel equipped with a work-class ROV is required for BOP intervention.</p> <p>BOP intervention uses standard hot-stabs, routinely used on offshore facilities. This type of tooling is readily available and will be mobilised with the BOP intervention vessel and ROV spread.</p> <p>There is only a single BOP during well drilling, therefore additional vessels and ROVs will provide no benefit to the BOP intervention activity.</p>	<p>A support vessel with work-class ROV will mobilise from within Australia and commence mobilisation activities in Broome (including gas detection system), within 10 days.</p> <p>Depending on the outcome of site survey activities, debris clearance may be required prior to attempting BOP intervention. However, under some circumstances, BOP intervention could occur without debris clearance. Therefore, mobilisation within 10 days is appropriate.</p> <p>If the site survey vessel is using a work-class ROV instead of an observation class ROV, the site survey vessel with work-class ROV would be capable of attempting BOP intervention, eliminating the requirement to mobilise a second vessel.</p> <p>INPEX's drilling support vessels and Ichthys Field support vessels are not required to be equipped with ROVs.</p>	<p>No additional BOP intervention tooling response capability required.</p>

Source control element	Can a greater response effort be implemented?	Can the time to respond be improved?	Justification for increased response effort/reduced response time
		<p>The cost of maintaining a vessel with a work class ROV and ROV crew at all times is estimated to be ~\$65,000 a day and is not considered ALARP (given the cost and the availability of vessels with ROVs can be made available on short notice within the region).</p> <p>Typically, several support vessels with work-class ROVs are located in the NW region, with additional vessels around Australia / SE Asian region with the capability of completing a BOP intervention.</p> <p>To ensure the availability, the most practicable option is to maintain an up to date register of suitable, available support vessels.</p>	
<p>Capping stack – primary located in Singapore and secondary in the United Kingdom will be mobilised from Singapore and be available on location within 21 days.</p>	<p>INPEX are a member of a capping stack consortium and have access to <b>a primary 15,000 psi, 18 ¾" capping stack</b> in Singapore and the equivalent as secondary in Aberdeen.</p> <p>INPEX and WWCI have reviewed the capping stack interface with the selected BOP, and have identified the required connections and its availability, and that anticipated pressures are within the operating parameters of the capping stack.</p> <p>INPEX are also conducting a landing study, to plan how to safely lower and latch the capping stack onto the BOP.</p> <p>As there is only a single BOP, only a single capping stack is required.</p>	<p>A breakdown of the individual steps and durations for capping stack mobilisation are provided in Table 4-2 and Table 4-4.</p> <p>An operational assessment and deployment planning study conducted by WWCI, determined a one (1) day difference between air and sea freight logistics options (longer by air).</p> <p>In addition, various uncertainties and risks to schedule were identified with the air freight option including handling restrictions at airports and wharfs. Another significant concern for stack up and testing of the capping stack in Australia is the reduced presence of original equipment manufacturer (OEM) and access to parts.</p>	<p>No additional capping stack response capability required.</p>



Source control element	Can a greater response effort be implemented?	Can the time to respond be improved?	Justification for increased response effort/reduced response time
	<p>As INPEX have access to primary and back-up capping stacks, sufficient redundancy is available, should any issues arise during stack up, testing, mobilisation, deployment and activation of the primary capping stack.</p>	<p>As a result, the capping stack will be stacked up and tested in Singapore due to the established infrastructure and Subject Matter Experts (SMEs) based in Singapore. WWCI conduct an annual stack up of the capping stack capturing lessons learned to improve the preparation time for mobilisation to field.</p>	
<p>A HLV with a work class ROV and minimum lifting capacity of 120t would be mobilised to Singapore, to receive the capping stack and ancillary equipment, then deploy to the licence area. The HLV will be used to land the capping stack on the blowing well and be on location within 21 days.</p> <p>INPEX will maintain a register, updated on a monthly basis, of the location and availability of all HLVs in the SE Asian region. The register will maintain status of safety cases.</p>	<p>As there is only a single BOP and single capping stack, only a single HLV is required.</p>	<p>A breakdown of the individual steps and durations for capping stack mobilisation including sourcing of an appropriate HLV vessel are provided in Table 4-4</p> <p>Identification and contracting/mobilisation and planning will commence when initial source control planning begins.</p> <p>Response time could be improved by maintaining a HLV on stand-by. However, until site survey and other activities have been conducted and results evaluated by the source control team, it is unknown if capping stack deployment will be possible. Therefore, the large costs of maintaining a HLV on stand-by (~\$225,000 per day) are not considered ALARP, especially given HLVs with ROVs can be made available within the region.</p> <p>To ensure the availability, the most practicable option is to maintain an up to date register of suitable, available HLVs and their safety case status.</p>	<p>No additional HLV response capability required.</p>

Source control element	Can a greater response effort be implemented?	Can the time to respond be improved?	Justification for increased response effort/reduced response time
<p>A single MODU would be required to drill a relief well in an absolute worst-case scenario.</p> <p>INPEX will maintain a register, updated on a monthly basis, of the location and availability of all MODUs internationally. The register will maintain status of safety cases. The register will include:</p> <ul style="list-style-type: none"> <li>• name, contractor, stacking status (cold/warm/on contract/yard)</li> <li>• operator (if on contract)</li> <li>• type</li> <li>• water depth capability</li> <li>• BOP pressure rating and # ram cavities</li> <li>• maximum personnel on board</li> <li>• mud pump, crane, helideck, variable deck load and top drive specifications</li> </ul>	<p>Approximate relief well locations have been identified around each drill centre in the WA-50-L licence area. Metocean and seasonal environmental conditions will be considered in final relief well location selection.</p> <p>Preliminary designs have been completed for optimal interception of a blowing well and completing a dynamic kill for the worst-case scenario.</p>	<p>The time to contain the well has been conservatively assessed as 80 days (Brewster); 108 days (Plover) and 115 days (Plover HTHP) based on an absolute worst-case discharge.</p> <p>The relief well design and plan will be optimized to intersect the blowing well and to complete a dynamic kill. The relief well cannot be drilled to a shallower depth (less drilling time), and intercept the original well at a shallower depth, as there would not be sufficient hydrostatic head pressure and drilling fluid weight in a shallower relief well to successfully kill the original well.</p> <p>Should the original MODU still be functional (however without BOP), a study would be conducted, and if practicable to implement, to have the MODU pre-drill the top-hole section of the relief well, prior to the arrival of the relief well drilling rig.</p> <p>INPEX has signed the APPEA MoU for mutual assistance between Titleholders. This MoU requires Titleholders to make <b>'best endeavours' to release and transfer</b> drilling units and well-site services between operators in a source control event.</p>	<p>No additional relief well response capability required.</p>

Source control element	Can a greater response effort be implemented?	Can the time to respond be improved?	Justification for increased response effort/reduced response time
<ul style="list-style-type: none"> <li>• base oil, bulk and liquid mud storage capacities</li> <li>• vessel safety case status and jurisdiction.</li> </ul> <p>INPEX will also maintain its subscription to the APPEA MoU.</p>			
<p>Relief well long-lead items (LLIs) and equipment has been identified, e.g. casing and well-head.</p> <p>INPEX drilling logistics team maintain a register of all drilling equipment to ensure relief well stocks are available.</p>	<p>The required consumables are available and tracked, as part of routine Ichthys development drilling. Specifically, spares maintained include:</p> <ul style="list-style-type: none"> <li>• wellhead system</li> <li>• conductor</li> <li>• surface casing</li> <li>• intermediate casing</li> <li>• relief well conduit</li> </ul> <p>Miscellaneous equipment such as crossovers can be manufactured locally within Australia in relatively short timeframes. This would be undertaken using pre-existing arrangements that INPEX has in place for the manufacture of such consumables.</p>	<p>The response time to access the relief well equipment (including miscellaneous equipment items such as crossovers etc that may be required and can be fabricated locally), will not be a critical path activity during the relief well drilling, as a standard logistics supply chain for INPEX development drilling activities, involving the Drilling Supply Base in Broome (and back-up base in Darwin) and standard supply vessels, will continue to be utilised.</p>	<p>No additional relief well long lead equipment capability required.</p>

Source control element	Can a greater response effort be implemented?	Can the time to respond be improved?	Justification for increased response effort/reduced response time
<p>A single SSDI spread would be required to implement SSDI. This equipment includes the dispersant stockpile and injection wands.</p> <p>(Note – support vessels with work-class ROVs for SSDI are the same types of vessels as those required for BOP intervention).</p>	<p>There is no requirement for additional/duplicate SSDI spreads. A single SSDI spread will be able to successfully inject dispersant into the well stream at the optimal ratio of approximately 100:1, which has been demonstrated to reduce VOC concentrations below safe levels (RPS 2019).</p> <p>Injecting additional dispersant into the well-stream will not result in any greater/beneficial reduction in VOC concentrations in the atmosphere.</p> <p>Based on a worst-case oil release rate of 20,000 bbl/day (3193 m<sup>3</sup>/day), at 100:1 treatment ratio, the dispersant requirement is 32 m<sup>3</sup>/day.</p> <p>For a worst case (complex) activity, 30 days of SSDI could be required. Therefore, a worst-case total of ~1000 m<sup>3</sup> dispersant could be required.</p> <p>SSDI would generally not be required to commence mobilisation onto a vessel in Broome until approximately day 10 of a response (aligning with BOP intervention/debris clearance mobilisation activities).</p>	<p>SSDI will only be activated when modelled and/or field measurements predict that VOC concentrations are likely to be exceeded during other source control activities such as BOP intervention, debris clearance or capping stack deployment and installation.</p> <p>The SFRT/SSDI spread is located in Western Australia and maintained by AMOSC. This equipment is rapidly able to be mobilised to Broome, the SFRT / SSDI spread is not anticipated to be on the critical path.</p> <p>As such, response time for SSDI spread readiness/mobilisation is determined to be appropriate/ALARP.</p>	<p>No additional SSDI capability required.</p>

Source control element	Can a greater response effort be implemented?	Can the time to respond be improved?	Justification for increased response effort/reduced response time
	<p>The SSDI spread maintained by AMOSC in WA includes 500 m<sup>3</sup> of Slick-Gone-NS dispersant and can be mobilised to Broome within 10 days. Therefore, 50% of the total worst-case dispersant requirement for a worst credible SSDI response can be mobilised outside of critical path timeframes.</p> <p>Additional Australian and global dispersant stockpiles can be mobilised, should it be estimated that the AMOSC 500 m<sup>3</sup> will be used up. Additional dispersant would not be required until a minimum of ~day 25 of the response, and therefore any additional dispersant stocks could be easily mobilised by vessel or aircraft to Broome within the required timeframe.</p> <p>INPEX maintains access to the global dispersant stockpile through INPEX Corporations membership with OSRL.</p> <p>Therefore, INPEX has access to sufficient dispersant for a worst case (30 day) SSDI activity.</p>		

Table 4-5: Environmental performance outcomes, standards and measurement criteria for source control preparedness arrangements

Environmental Performance Outcome	Environmental Performance Standard	Measurement Criteria
INPEX will be prepared and ready to respond to source control events.	INPEX will maintain and monitor registers as described in Table 4-4 and Section 4.2 updated on a monthly basis, of the location and availability of support vessels, CSVs, HLVs and MODUs, including their capabilities (ROVs/crane capacity etc) and safety case status and jurisdiction	Vessel and MODU registers.
	INPEX will maintain a register of relief well long lead items.	Relief well long lead items register.
	INPEX will maintain contracts for suitable debris clearance equipment. Debris clearance equipment will be able to be mobilised to Broome within 5 days.	Records of contracts for debris clearance equipment.
	INPEX will maintain a contract for a SSDI spread, which can be mobilised to Broome within 10 days. The SSDI spread will contain a minimum of 500 m <sup>3</sup> of dispersant.	Records of contract for SSDI spread.
	INPEX will maintain its OSRL membership, to ensure access to the global dispersant stockpile.	Records of INPEX OSRL membership.
	INPEX will maintain contracts for suitable capping stack equipment. The capping stack equipment will be: <ul style="list-style-type: none"> <li>• identified as fit for purpose, capable of being lowered and latched onto the selected BOP, utilising a single HLV</li> <li>• rated to achieve a well-kill, based on the expected pressures of the reservoir</li> <li>• primary stack available to be mobilised onto a HLV within 5 days</li> <li>• primary and secondary capping stack maintained in a suitable state of readiness.</li> </ul>	Records of contracts for capping stack equipment.

Environmental Performance Outcome	Environmental Performance Standard	Measurement Criteria
	INPEX will continue to subscribe to the APPEA MoU.	Record of APPEA MoU.
	INPEX will participate in the DISC steering committee for the development and submission of a SC template for a generic vessel including the activity of deploying a capping stack from this vessel.	Meeting minutes and records of attendance.
	Source control team will maintain preparedness through training and exercises to validate source control logistical arrangements and ensure the source control team: <ul style="list-style-type: none"> <li>• understand the source control planning documents/procedures</li> <li>• understand their defined roles and responsibilities</li> <li>• validate communications with external source control service providers.</li> </ul>	Records of training and exercises for the source control team.
	INPEX will maintain a contract with WWCI, for the provision of personnel to: <ul style="list-style-type: none"> <li>• provide technical expertise to the INPEX source control team</li> <li>• provide in-field supervision of source control activities.</li> </ul>	WWCI contract.
	Prior to spudding; source control documentation will be approved and in place in accordance with the WOMP, including: <ul style="list-style-type: none"> <li>• Drilling Browse Basin Emergency Response Plan</li> <li>• Source Control Emergency Response Plan</li> <li>• Blowout Contingency Plan – Browse Basin Wells</li> <li>• Well Control Modelling Service Report</li> </ul>	Records confirm source control planning documentation was approved prior to spudding.

Environmental Performance Outcome	Environmental Performance Standard	Measurement Criteria
	<ul style="list-style-type: none"> <li>Capping Stack Deployment and Installation Procedure.</li> </ul>	
<p>INPEX will re-gain control of a well within 80 days (Brewster)/108 days (Plover)/115 days (HPHT) of any source control event, through implementation of the environmental performance standards.</p>	<p>In the event of a loss of well control, conduct a site survey of well-head infrastructure, to inform source control planning activities. A vessel to undertake the site survey will be mobilised to Broome within 7 days.</p>	<p>Records of site survey.</p>
	<p>In the event conditions allow for the safe deployment and installation of the capping stack, INPEX will mobilise, deploy and install the capping stack in accordance with response time model detailed Table 4-2: Deployment of capping stack – vessel freight option</p>	<p>Records of capping stack feasibility report. Daily drilling report.</p>
	<p>INPEX will mobilise relief well MODU and drill, intercept and regain control of the well, in accordance with the time frames detailed in Table 4-1: Summary of time response models for Brewster and Plover reservoirs (Browse Basin Common Relief Well Design and Response Time Models Technical Note)</p>	<p>Daily drilling report.</p>
	<p>The source control team will utilise the source control planning documentation to develop and implement a source control plan. The source control plan will:</p> <ul style="list-style-type: none"> <li>evaluate, define and schedule source control activities</li> <li>utilise the asset registers to identify and safely mobilise suitable assets within the minimum timeframe possible</li> <li>evaluate the potential to use the site survey vessel/ROV for BOP Intervention</li> <li>evaluate the potential to use the original MODU to drill top-hole sections for any relief wells.</li> </ul>	<p>Source control plan documentation.</p>



Environmental Performance Outcome	Environmental Performance Standard	Measurement Criteria
	<p>The source control team will develop a SIMOPs plan, to support the source control plan. The SIMOPs plan will specify:</p> <ul style="list-style-type: none"> <li>• licence area entry requirements, including DP checks</li> <li>• exclusion zones</li> <li>• minimum vessel separations</li> <li>• communications requirements and frequencies</li> </ul> <p>SIMOPs planning meetings.</p>	Records confirm SIMOPs plan developed and implemented.
No incidents of loss of hydrocarbons to the marine environment as a result of a vessel collision during source control activities.	If debris clearance and wet-storage is required, the source control team will use existing site survey data to identify temporary wet storage areas which are not sensitive benthic habitats.	Records confirm any identified wet-storage areas do not contain sensitive benthic habitats.
Impacts to the shallow water column through use of SSDI will be reduced to ALARP through the implementation of the Environmental Performance Standard.	<p>SSDI will only be activated when:</p> <ul style="list-style-type: none"> <li>• Air quality monitoring and/or modelling determines there is a credible risk of atmospheric VOC concentrations exceeding safe exposure thresholds for source control activities; and</li> <li>• There is a requirement to conduct source control activities in the zone where atmospheric VOCs may present a hazard to the safety of workers, and</li> <li>• Air quality monitoring and/or modelling of gas levels and lower explosive limits determines source control activities including SSDI could be safely conducted.</li> </ul>	<p>Records of:</p> <ul style="list-style-type: none"> <li>• Air quality monitoring and/or modelling demonstrating a credible risk of atmospheric VOC concentrations exceeding safe exposure thresholds for source control activities</li> <li>• SSDI injection occurring concurrently with source control activities.</li> </ul>
	SSDI injection concentration will initially be set at 100:1 (based on best estimate of well flow-rate at the time of the blow-out).	<p>Records of SSDI injection ratio</p> <p>Records of atmospheric VOC concentration monitoring during source control activities.</p>

Environmental Performance Outcome	Environmental Performance Standard	Measurement Criteria
	<p>Effectiveness of SSDI will be monitored through ongoing measurement of VOC concentrations on the surface, by source control vessels. If VOC exposure thresholds are exceeded, SSDI ratio will be incrementally increased, until VOC concentrations are below safe exposure thresholds.</p>	

## 5 IMPLEMENTATION

An implementation strategy is described within all INPEX EPs. The implementation strategy addresses the following:

- overview of the INPEX Business Management System, including HSE management systems/processes
- leadership and commitment including Environment Policy
- capability and competency including the organisational team and responsibilities associated with the implementation of the EP
- documentation, information and data management related to the EP
- risk management process used within the EP
- operate and maintain; specific processes/systems required for EP implementation
- management of change, including the specific change management process for the EP
- stakeholder engagement, including processes for ongoing engagement and consultation with stakeholders potentially affected by the EP
- contractors and suppliers, including selection and management processes
- security and emergency management
- incident investigation and lessons learned, which also includes monthly and annual performance reporting.
- monitor, review and audit; defining the processes to ensure ongoing compliance and continual improvement of the EP
- management review, including senior management review of the EP.

Within the implementation strategy of each EP, only some elements are relevant to this document. The following are considered necessary to include as stand-alone processes within this document:

- source control arrangements testing
- review of source control arrangements process
- management of change process
- annual performance reporting requirements
- management review process.

The details of these are provided in the following sections.

5.1 Source control arrangements testing

Environmental performance outcomes, standards and measurement criteria relating to testing of source control arrangements associated with INPEX exploration and production wells in the Browse Basin are presented in Table 5-1.

Table 5-1: Environmental performance outcome, standards and measurement criteria for testing response arrangements

Environmental performance outcome	Performance standards	Measurement criteria
INPEX will be prepared and ready to respond to source control events.	INPEX IMT and drilling source control team will conduct a well blow-out exercise in the Browse Basin biennially. The objectives of this exercise will include as a minimum: practice the interface between the source control team and IMT <ul style="list-style-type: none"> <li>• source control team verification of availability of rigs, vessels and equipment</li> <li>• source control team verification of logistics plan</li> <li>• to verify source control response timelines as specified in Table 4-4.</li> </ul>	Exercise records demonstrate that a Browse Basin well-kill exercise has been conducted biennially.
	INPEX source control team will conduct an annual source control logistics desktop validation exercise. The objectives of this exercise will include: <ul style="list-style-type: none"> <li>• source control team verification of availability of rigs, vessels and other required source control equipment, specified in Table 4-4.</li> <li>• source control team verification of a logistics plan which meets the source control response timelines specified in Table 4-4.</li> </ul>	Exercise reports demonstrate objectives have been tested annually.

## 5.2 Review of source control arrangements and risk assessment

An environmental risk register for each EP is maintained and will be reviewed and updated quarterly. The quarterly environmental risk review process will be implemented to assess internal and external changes that may affect the performance outcome and standards as associated with the activity. Changes could include availability of source control response MODUs/vessels or other source control relevant information.

Pre-spud risk reviews will be conducted to verify the availability of relief well MODUs and capping stack deployment vessels with respective capabilities as described in Section 4.2 Adaptive management measures will be implemented, **should identified MODU's and vessels** be unavailable or outside the limits required to meet the described response time models detailed in Tables 4-1 and Table 4-2.

This document will be reviewed following any events requiring its activation, in order to identify any lessons learned, or other relevant triggers for review.

Environmental performance outcomes, standards and measurement criteria relating to source control capability and arrangements reviews and updates to this document are presented in Table 5-2.

Table 5-2: Environmental performance outcome, standards and measurement criteria for updating this source control document

Environmental performance outcome	Performance standards	Measurement criteria
INPEX will be prepared and ready to respond to source control events.	This document will be reviewed and updated if necessary, following any INPEX source control team exercise or incident in which any source control capability used/activated.	Records demonstrate a review and update (if necessary) of this document.
	Verify availability of capable source control MODU and vessels required for the activity prior to, and during the drilling activity.	Records demonstrate pre-spud and quarterly risk review conducted.
	Implement adaptive management measures to identify a suitable alternative: <ul style="list-style-type: none"> <li>• relief well MODU and/or</li> <li>• capping stack deployment vessel</li> </ul> to ensure the described response time models in Tables 4-1 and Table 4-2 are met.	Records demonstrate pre-spud and quarterly risk review conducted.

	<p>If new source control related information, which could affect source control capability and arrangements (such as MODU/vessel availability issues) is identified through the pre-spud and/or quarterly risk review process, the information will be assessed using New Information Risk Assessments and/or the Management of Change process. Depending on the outcome of the risk assessment and/or change assessment, this document will be updated as necessary.</p>	<p>Records demonstrate quarterly risk reviews consider source control risk elements.</p>
	<p>This document will be reviewed and updated if necessary, based on findings from the annual management review and annual performance report.</p>	<p>Records demonstrate a review and update (if necessary) of this document.</p>

### 5.3 Management of Change

Changes to INPEX documents are managed in accordance with a business-wide standard, and related procedures and guidelines. Where a change to management of an activity is proposed, it will be logged. Internal notification will be communicated via a management of change (MoC) request. The request will identify the proposed change(s) along with the underlying reasons and highlight potential areas of risk or impact. In accordance with the INPEX business rules, it is mandatory to undertake an environmental risk assessment in every case for changes that could affect the environment, including source control risks and response arrangements.

The MoC request will be managed by an environmental adviser who will then determine the necessary approval/endorsement pathway, in consultation with the environmental approvals coordinator. Minor changes (such as updating a document or process) that do not invoke a revision trigger are made in document reviews from time to time.

In accordance with Regulation 17 of the OPGGS (E) Regulations 2009, a revision of an EP will be submitted to NOPSEMA where:

- a change is considered to represent a new activity
- a change is considered to represent a significant modification to, or a new stage of, an existing activity
- a change will create a significant new environmental impact or risk
- a change will result in a series of new (or increased) environmental impacts or risks that, together, will result in a significant new environmental impact or risk, or a significant increase in an existing environmental impact or risk.

The MoC request process will be periodically checked against NOPSEMA guidance to ensure ongoing compliance and will be undertaken as part of the management review process described in Section 5.5.

As this document is an integrated element for EPs associated with exploration and production wells, the MoC process is also applicable to this documents. Therefore, where an MoC is required for changes to this document, the INPEX EP MoC template will be used to formally record/document the change.

When a new or revised EP is required to be re-submitted to NOPSEMA, and the new or revised EP also requires/results in changes to this document, the updated version of this document will be submitted, with the new/revised EP, to NOPSEMA.

#### 5.4 Annual performance reporting

In accordance with Regulation 14(2) of the OPGGS (E) Regulations 2009, INPEX will undertake a review of its compliance with the environmental performance outcomes and standards set out in this document and will provide a written report of its findings to NOPSEMA on an annual basis.

The annual reporting period for this document will be from the 01 January to 31 December of each calendar year. The submission date for the environmental performance report will be 01 April each calendar year.

Any findings from the Annual Performance Report will be included on an INPEX action tracking register.

#### 5.5 Management review

Management reviews of this document shall assess whether:

- control measures detailed in this document are effective in maintaining source control preparedness and response capability to an ALARP and acceptable level
- implementation of the MoC process has been applied consistently and appropriately, ensuring source control preparedness and response capability and arrangements remain ALARP and at acceptable **levels, commensurate with INPEX's activities and** source control risks
- any changes in legislation, NOPSEMA guidance or other matters relating to source control preparedness and response have been taken into consideration in relation to this document.

Where the documented findings of the management reviews have implications for this document, it will be updated in accordance with Table 5-2.

## 6 REFERENCES

Add Energy. 2019. *Blowout and Kill Simulation Study, Ichthys Phase 2A Plover Production Well*. Add Energy. Stavanger, Norway.

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Wild Well Control. 2019. *Ichthys Phase 2A – Subsea Plume, Gas Dispersion and Capping Stack Landing Study*. Wild Well Control Inc, Houston, USA.