



# Invitation for Consultation

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**Jadestone Energy is preparing an Environment Plan (EP) for the drilling of two development wells and workover of a third well within the Montara Development Project off northern Western Australia. The Environmental Plan will be assessed and accepted by the National Offshore Petroleum Regulatory Authority prior to Jadestone commencing drilling activity at the Montara facilities.**

**During preparation of the EP Jadestone will provide relevant persons with information to allow them to make an informed assessment of the possible consequences of the proposed survey on their functions, interests or activities. Please contact us if you have any feedback, comments or questions on this activity, or do not think that this activity will affect your functions, interests or activities.**



## Who is Jadestone Energy?

Jadestone Energy (Jadestone) is a Singapore based oil and gas exploration company listed on the TSX Venture Exchange (TSXV: JSE) and on AIM (JSE). Contact details for the Perth office are provided at the end of this document.

*Jadestone Energy is committed to preventing all health, safety and environmental incidents and complying with all regulatory requirements. Incidents of this nature are preventable, and we will strive to operate in a way that does not harm the environment.*

## What is an Environment Plan?

The purpose of an Environment Plan (EP) is to identify the proposed petroleum activity's impacts on and risks to the receiving environment. The EP also sets out measures to reduce the identified environmental impacts and risks of the activity and describe how and to what standard those measures will be implemented throughout the activity; this includes emergency situations.

Jadestone Energy's *H-6 and Skua-12 Drilling Program 2020 Environment Plan* does this for activities associated with the drilling of a development well in each of the Montara and Skua Fields and the workover of H-3 well in the Montara Field.

## Timing

The drilling and workover activities are scheduled to commence during Q2 of 2020 and last for 150 days.

Final survey timing will be dependent on weather, drilling vessel availability and operational efficiency. As such the option to conduct the activity at any time between April 2020 and April 2021 will be sought for approval from the relevant government regulators.

Every effort will be made to time the activity to minimise any potential adverse effects on relevant stakeholders. This Invitation for Consultation document includes an initial assessment of potential interaction with each of the overlapping commercial fisheries, including the timing component.

## Location

The Montara Development Project is located in the Timor Sea approximately 690 km west of Darwin. The permit areas (AC/L7 Montara field and AC/L8 Skua, Swift and Swallow fields) are located in Australian waters at depths of approximately 80 m LAT.

All planned activities will be contained within the Operational Area. Indicative location details are:

Lat:12°39'35.3"S  
(GDA 94, Zone 51)

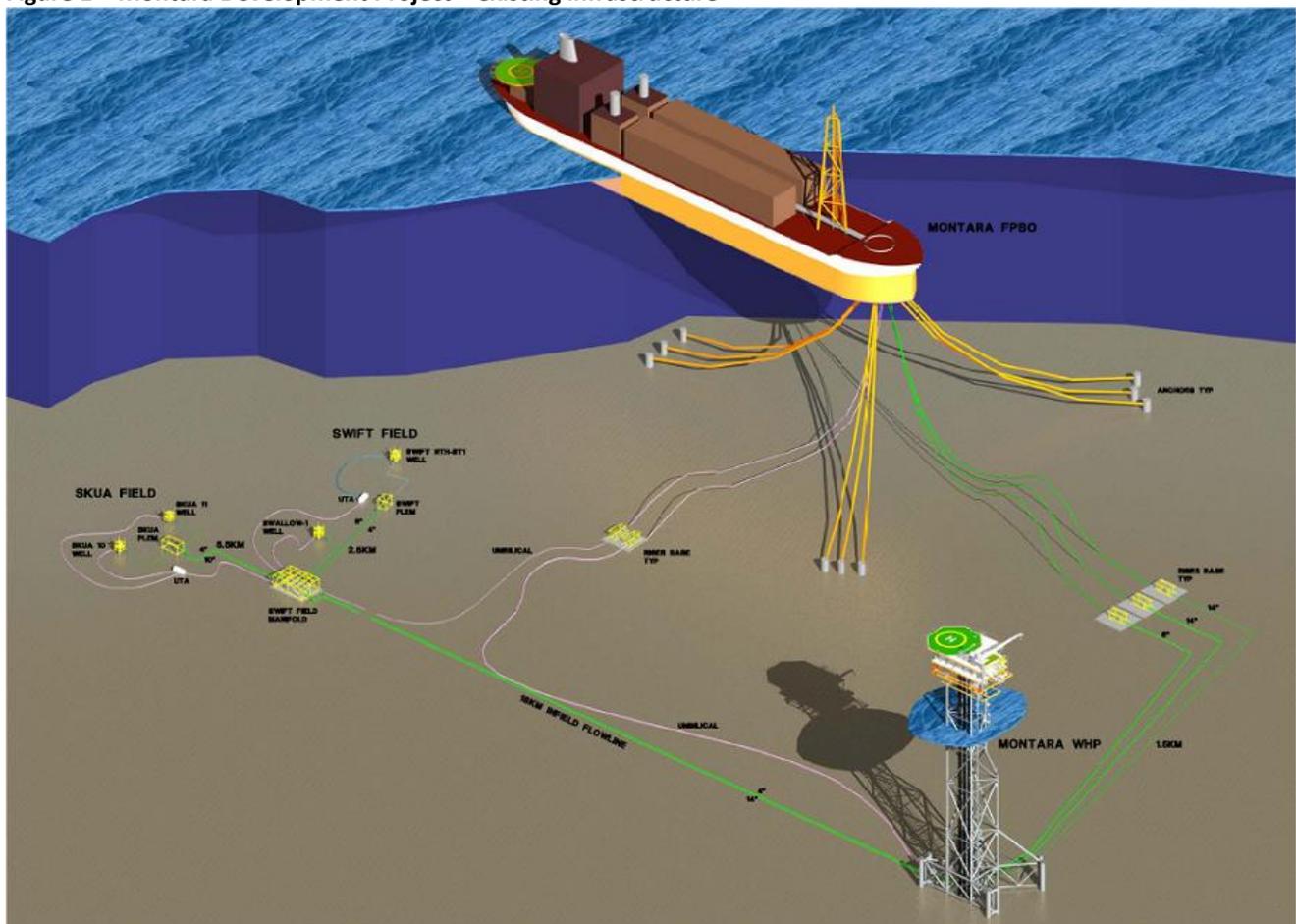
Long:124°32'41.1"E

## Drilling and workover activities

The detailed workover plan for H-3 and well designs for H-6 and Skua-12 will be finalised in a Well Operations Management Plan (WOMP), which is to be accepted by NOPSEMA prior to commencement of drilling. Workover activities will include positioning of the jack-up rig onto the Well Head Platform, establishment of service and safety systems, hook up to the well and commencement of workover activities including casing repair and pressure testing. Drilling activities will take between 50 and 80 days for each well and include positioning of the jack-up rig, drilling and casing of the hole, pressure testing, suspending the well and installation of the subsea Xmas tree. The Skua-12 well will also be tied-back to existing subsea infrastructure shown in Figure 1 via an 800 m jumper (flowline).

*The drilling and workover will be supported by three support/supply vessels (60 – 90 m length) operating out of Darwin. Routine helicopter operations will occur 5 – 7 days per week between the Operational Area and Mungalu-Truscott air base in the Kimberley region.*

**Figure 1 – Montara Development Project – existing infrastructure**



### Montara Development Project – existing infrastructure

- A floating production, storage and offtake (FPSO) facility and its associated mooring system
- An unmanned well head platform (WHP) at the Montara field
- Five subsea wells at the Skua, Swift and Swallow fields
- Production flowline system
- Gas lift flowline system
- Three infield control umbilicals
- A subsea manifold in the Swift field
- Three support/supply vessels (with a fourth possibly used in tie-back operations to the Skua field) using Darwin as the home port. One vessel will always be near the MODU
- Helicopter support

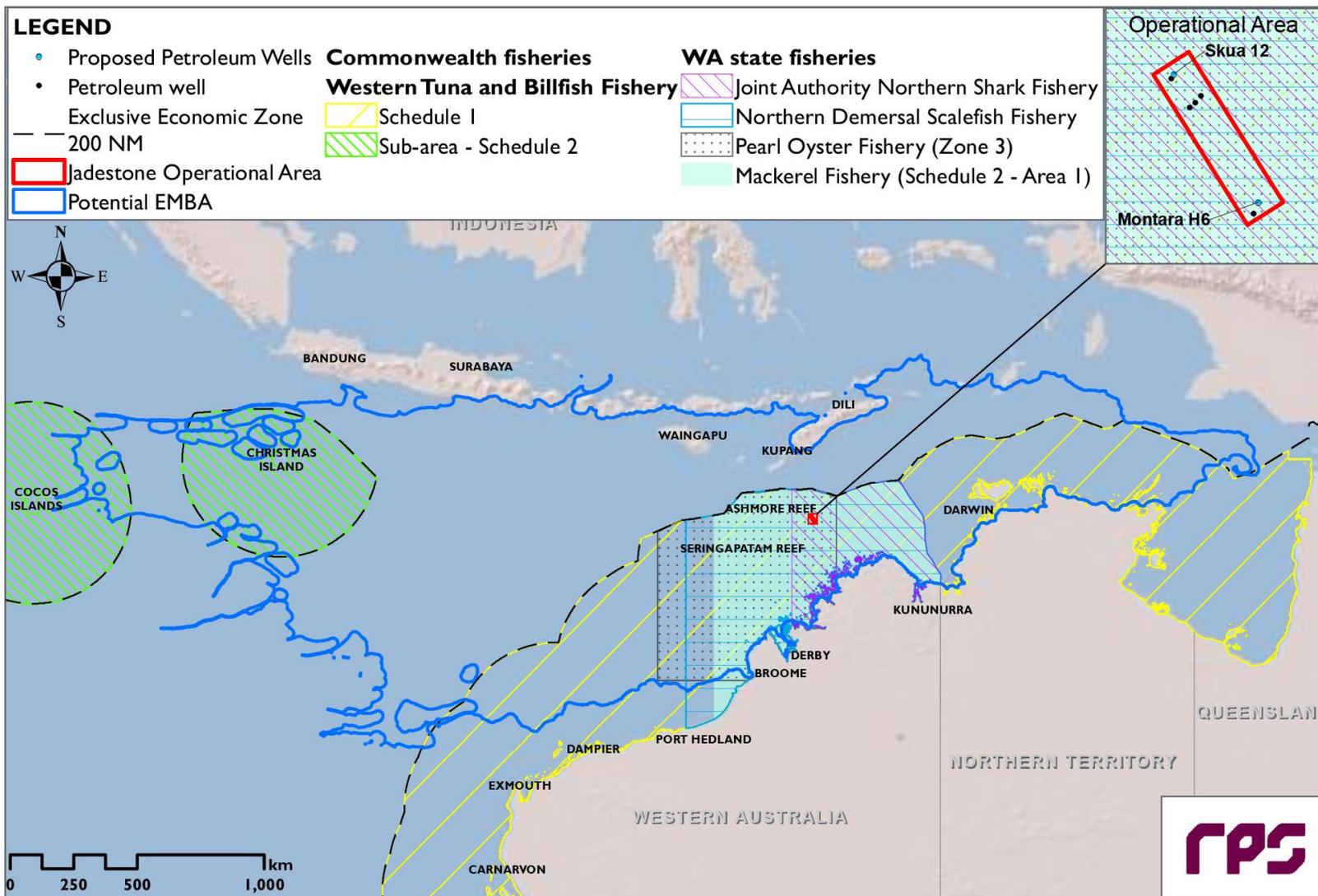


Figure 2 – Location of the Operational Area and fisheries that may potentially utilise it

## What fisheries may be affected?

Jadestone Energy understands from the Department of Primary Industry and Resources (DPIRD) and West Australian Fishing Industry Council (WAFIC) that the **Northern Demersal Scalefish Managed Fishery** is the only managed fishery active in the Operational Area since 2015. Other fisheries that are licensed to operate and may utilise this area in the future include (Figure 2):

- **Western Tuna and Billfish (Commonwealth)**
- **Joint Authority Northern Shark Fishery (WA)**
- **Mackerel Fishery (WA)**
- **Specimen Shell Managed Fishery (WA)**
- **Northern Shark Fishery Joint Authority (WA)**

These fisheries will be Jadestone Energy's focus for consultation. Consultation for other fisheries regarding the development of the EP will take place through notification of State and Commonwealth representative bodies.

In the unlikely event of a hydrocarbon spill, Jadestone Energy will conduct extensive and immediate consultation with other fisheries licensed to operate within the broader Environment that May be Affected (EMBA) by such a spill.

## Potential risks to fishing sector

A summary of potential risks to the fishery sector and associated management measures is provided below:

Potential Risks	Mitigation and /or Management Measure
Planned activities	
Exclusion zone for marine users	<ul style="list-style-type: none"> <li>• A 500m petroleum safety zone is in place around the facility for duration of operations. No vessels are to enter this zone.</li> <li>• Notice to Mariners</li> </ul>
Noise and Light emissions	<ul style="list-style-type: none"> <li>• Operational measures will be taken to protect marine fauna and ecosystems from noise and light emissions during the Activity.</li> <li>• Compliance with EPBC legislation</li> </ul>
Effluent discharge and waste management	<ul style="list-style-type: none"> <li>• Routine discharges will meet legal requirements.</li> <li>• Waste Management Plan</li> </ul>
Drill cuttings, fluids and cement discharges	<ul style="list-style-type: none"> <li>• Drill cuttings, fluids and cement discharges will be modelled and monitored to manage discharges to and acceptable levels of environmental performance</li> </ul>
Unplanned risks	
Vessel collision	<ul style="list-style-type: none"> <li>• Marine notifications will be made to relevant stakeholders, describing the location of the activity and a 500 m exclusion zone to prevent the risk of vessel collisions</li> </ul>
Hydrocarbon release	<ul style="list-style-type: none"> <li>• Oil Pollution Emergency Plan</li> <li>• Appropriate vessel spill response plans, equipment and materials will be in place and maintained</li> <li>• Appropriate refuelling procedures and equipment will be used to prevent spills to the marine environment</li> </ul>
Introduced Marine Species (IMS)	<ul style="list-style-type: none"> <li>• IMS Management will meet legal requirements and reduce risks to ALARP and Acceptable levels.</li> </ul>

## Providing Feedback

If you would like to comment on the proposed activity outlined in this fact sheet or would like additional information, please contact Jadestone before 7/11/2019.

Phone: 08 9486 6600 Email: [consult@jadestone-energy.com.au](mailto:consult@jadestone-energy.com.au)

Our Perth office is located at: L8, 1 William Street, Perth 6000, WA.

Any person providing feedback is asked to advise if this information is to remain confidential and not published within the Environmental Plan.



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