

Hibiscus Potential Risks and Management

A summary of potential risks to relevant persons who may have functions, activities or interests within the EMBA, that are common to all planned activities, is provided below. For each risk the associated management measures are summarised in Table 1.

TABLE 1: POTENTIAL RISKS AND MITIGATION/MANAGEMENT MEASURES ASSOCIATED WITH PLANNED EVENTS

Potential Risks	Mitigation and /or Management Measures
Light Emissions	<ul style="list-style-type: none"> - Vessel lighting in accordance with COLREGS, Navigation Act 2012 and marine orders and in allowing safe operation and activities (including emergency lighting). - Fluorescent and LED lighting in place.
Noise Emissions	<ul style="list-style-type: none"> - Immersible equipment used during campaign and vessel propulsion system meets manufacturers specification with respect to noise emissions. - Vessel to observe cetacean (whale and dolphin) proximity distances and low speeds during transits within the operational area. - Support vessels will comply with EPBC Regulations 2000 (Part 8). - Environmental Induction covering the requirements for cetacean/vessel interaction distances consistent with EPBC Regulations 2000.
Atmospheric Emissions	<ul style="list-style-type: none"> - International Air Pollution Prevention (IAPP) Certificate valid. - Vessels compliant with Marine Order 97. - No heavy fuel oil used on vessel.
Liquid waste discharged from vessels	<ul style="list-style-type: none"> - Oily water filtering and monitoring equipment fitted and maintained. - Oily sludge is contained. - Potable water systems are maintained. - Vessels meets operational needs and is maintained. - Garbage record book maintained. - Waste management plan implemented.
Interaction with other users	<ul style="list-style-type: none"> - Pre-existing 300 m radius petroleum safety zone (PSZ) will remain in place for the duration of operations under the proposed EP. No fishing vessels are to enter the zone. - Seabed is left clear of infrastructure to meet requirements of OPGGS Act Section 572(3) and 270(3). - Recovery of all deployed equipment. - Communicate with marine users on activity. - Vessel navigational and communication equipment installed, maintained and operated.
Seabed disturbance	<ul style="list-style-type: none"> - Seabed is left clear of infrastructure to meet requirements of OPGGS Act Section 572(3) and 270(3) - Recovery of all deployed equipment - Onshore disposal of subsea infrastructure at a licensed waste facility.

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Additional risks that are associated with events that are not expected to occur during normal activities are outlined in Table 2.

TABLE 2: POTENTIAL RISKS AND MITIGATION/MANAGEMENT MEASURES ASSOCIATED ONLY WITH UNPLANNED EVENTS

Potential Risks	Mitigation and /or Management Measures
Introduced Marine Species (IMS)	<ul style="list-style-type: none"> - All vessels required to adhere to legislative requirements in relation to ballast water management and biofouling requirements. - All vessels demonstrate compliance with the Biosecurity Act 2015.
Interaction with fauna	<ul style="list-style-type: none"> - Support Vessel Masters will comply with relevant parts of EPBC Regulation (2000): Reg. 8.05 & 8.06 respectively, where safe to do so. - Vessel crew has completed an environmental induction covering the requirements for cetacean/vessel interaction distances consistent with EPBC Regulations 2000 (Part 8) and are familiar with the requirements. - Marine fauna collisions reported to National Ship Strike Database.
Dropped Objects	<ul style="list-style-type: none"> - Waste generated during operations will be managed in accordance with the vessel Waste Management Plan. - Environmental Induction. - Planned maintenance system on crane and lifting equipment to ensure fit for purpose; - Lifting plans are prepared and then ratified by client to ensure crane is fit for purpose and adequate for lifting (ROV and tool, and wellhead recovery). - All lifts performed by competent crew - Objects dropped overboard are recovered (if possible) to mitigate the environmental consequences from objects remaining in the marine environment
Unplanned release of hydrocarbons	<ul style="list-style-type: none"> - No refuelling. - No heavy fuel oil (HFO) to be used - Shipboard Oil Pollution Emergency Plan valid and tested to ensure ability to respond to spills as required by MARPOL. - NOPSEMA accepted Hibiscus Oil Pollution Emergency Plan (OPEP). - in the event of a spill. - Competent and trained personnel are inducted and have appropriate qualifications. - Maintenance and integrity checks and inspections. - Appropriate vessel spill response plans, equipment and materials will be in place and maintained. - Prevent third-party entry to the area.
Spill response operations	<ul style="list-style-type: none"> - NOPSEMA accepted Hibiscus Oil Pollution Emergency Plan (OPEP). - Shipboard Oil Pollution Emergency Plan valid and tested to ensure ability to respond to spills as required by MARPOL. - Competent incident management team and oil spill response personnel are inducted and have appropriate qualifications. - Drills and exercises undertaken in accordance with the OPEP.