#### COMMERCIAL FISHING INDUSTRY STAKEHOLDER CONSULTATION

## **Barossa Development**

Subsea Infrastructure and FPSO Moorings Installation and Pre-Commissioning Environment Plan

# Santos

## Additional information for commercial fisheries

In addition to the Subsea Infrastructure and FPSO Moorings Installation and Pre-Commissioning Environment Plan June Fact Sheet the following supplementary information is for commercial fishers active in the region.

Based on designated fishing zones, available historical catch data and previous consultation, the proposed activity has the potential to affect the following commercial fisheries:

#### Commonwealth managed fisheries

- Northern Prawn Fishery
- · Southern Bluefin Tuna Fishery
- · Western Skipjack Tuna Fishery
- · Western Tuna and Billfish Fishery

#### Northern Territory (NT) managed fisheries

- · Aquarium Fishery
- · Spanish Mackerel Fishery
- Timor Reef Fishery
- · Demersal Fishery

Commonwealth and NT managed commercial fisheries within the vicinity of the Barossa Development are illustrated in **Figure 1** and **Figure 2**, and bathymetric contours are illustrated in **Figure 3**. A summary of Santos' knowledge of fishing effort in these fisheries in relation to the two Operational Areas (Field OA and Spool OA) is provided in **Table 1** and **Table 2**.

A summary of issues and concerns raised with Santos relevant to commercial fisheries during consultation on other proposed activities in the Barossa Development Area is provided in **Table 3**.

#### These include:

- Interference with commercial fishing activities and exclusion from fishing areas.
- · Introduction of Invasive Marine Species (i.e., marine pests).
- Vessel collision and hydrocarbon and chemical transfer incidents



#### **Feedback**

Santos is committed to working together with the commercial fishing industry with the intent that each can proceed with their business in a safe and efficient manner, without loss or conflict.

To this end, if you have any objections, claims or information requests regarding this activity please contact us by 15 July 2022 via phone or email. Santos

would be pleased to meet in person, or to arrange an online forum to discuss further. Santos will endeavour to address all stakeholder feedback prior to the Environment Plan being submitted to NOPSEMA.

Equally, if you do not wish to receive further information from Santos on this activity, please advise directly or through your representative body. Consultation for this activity will be ongoing post regulatory acceptance and throughout the period of the installation activities.

#### Contact

Michael Marren

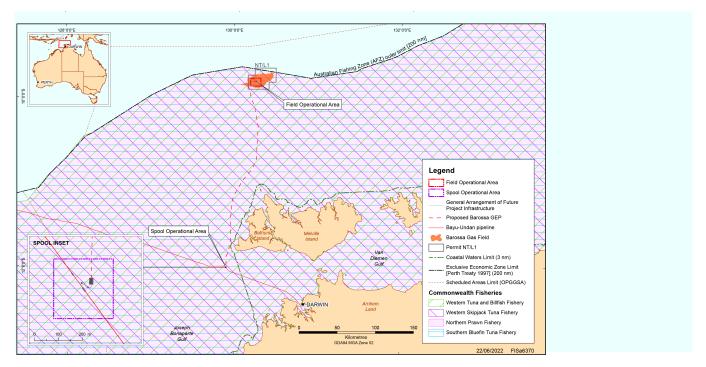
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**Table 1: Summary of Commonwealth Managed Fisheries** 

FISHERY	SUMMARY OF FISHERY IN RELATION TO THE ACTIVITY OPERATIONAL AREAS	ASSESSMENT OF POTENTIAL IMPACTS
Northern Prawn Fishery	The Northern Prawn Fishery management area extends over Australia's northern coast, between Cape York in Queensland and Cape Londonderry in WA, from the low water mark to the outer edge of the Australian Fishing Zone (AFZ). The majority of the fishing effort within the Northern Prawn Fishery, which is undertaken using trawling nets, occurs in the areas of the Gulf of Carpentaria, Joseph Bonaparte Gulf and along the Arnhem Land coast.  The key target species are banana prawns, tiger prawns and endeavour prawns.  There are two fishing seasons, with the season end date dependent on catch rates.  Season 1 (mainly banana prawns caught): 1 April – 15 June  Season 2 (mainly tiger prawns caught): 1 August – end of November  The areas of low, medium and high fishing effort are distant from the Barossa Field. Based on previous industry consultation prawn fishing is not expected in water depths greater than ~130 m. The fishery is expected to be active in the Spool Operational Area during the permitted fishing seasons. Scampi are targeted in deeper waters north of the Barossa Field. There is a low level of scampi fishing spread across two to three months of the year.	No impact to the prawn fishery expected given the location and water depth of the Barossa Field.  Scampi fishing occurs in deeper waters (>250 m) with recorded fishing effort to the north of the Barossa Field.  Activities in the Field OA are not expected to displace trawl fishers or affect scampi catch. Activities in the Spool OA may displace trawl fishers for up to one week, depending on the final time-frame.
Southern Bluefin Tuna Fishery	The Southern Bluefin Tuna Fishery operates around Australia and extends to the high seas fishing zone (out to 200 nm from the coast). The fishery targets southern bluefin tuna only. Fishing activity is focused in southern Australian waters with no activity expected across either of the Operational Areas.	No impact to the fishery expected.
Western Skipjack Tuna Fishery	The Western Skipjack Tuna Fishery extends west from Cape York Peninsula and around Australia to the South Australian / Victorian border, out to the edge of the AFZ.  Little fishing activity has been undertaken in this fishery since 2008. No fishing activity associated with this fishery is expected to occur within either of the Operational Areas.	No impact to the fishery expected.
Western Tuna and Billfish Fishery	The Western Tuna and Billfish Fishery management area extends over a large area westward from Cape York Peninsula off Queensland, around the west coast of WA and eastward, across the Great Australian Bight to 141°E at the South Australian/Victorian border.  The fishery has operated at low levels of effort since the early 2000's due to economic conditions. Target species include albacore, bigeye tuna, yellow fin tuna, swordfish and striped marlin. No fishing activity associated with this fishery is expected to occur within either of the Operational Areas.	No impact to the fishery expected.

## **Figure 1: Commonwealth Managed Fisheries**



**Table 2: Summary of Northern Territory Managed Fisheries** 

FISHERY	SUMMARY OF FISHERY IN RELATION TO THE ACTIVITY OPERATIONAL AREAS	ASSESSMENT OF POTENTIAL IMPACTS
Aquarium Fishery	The Aquarium Fishery is a small-scale, multi-species fishery that prospects freshwater, estuarine and marine habitats to the outer boundary of the AFZ. The harvest of most marine species, via small skimmer nets and pots, occurs occurs within 100 km of Nhulunbuy and Darwin, though one license holder does occasionally collect from offshore locations, including at Evans Shoal (approximately 65 km west of the Barossa Field).  Some fishing activity may occur near the Spool OA on limited occasions.	Field OA: No impact to the fishery expected.  Spool OA: May cause displacement for up to one week, depending on the final time-frame.
Spanish Mackerel Fishery	The fishery extends seaward from the high-water mark to the edge of the AFZ. The majority of the fishing effort occurs in the vicinity of reefs, headlands and shoals and includes waters near Bathurst Island, New Year Island, northern and western Groote Eylandt, the Gove Peninsula, the Wessel Islands, the Sir Edward Pellew Group and suitable fishing grounds on the western and eastern mainland coasts. Fishing methods used are troll or hand lines, rods or small mesh nets. Fishing activity is only expected to occur near the Spool OA.	Field OA: No impact to the fishery expected.  Spool OA: May cause displacement for up to one week, depending on the final time-frame.
Timor Reef Fishery	The Timor Reef Fishery (TRF) extends north-west of Darwin to the WA-NT border and to the outer limit of the AFZ. Fishing occurs primarily in the 100 to 200m depth range. Previous consultation indicates that the main target species is goldband snapper, with other tropical snappers (e.g., crimson snapper and saddletail snapper) also making up part of the catch. There are two active fishing licence holders currently operating in the fishery. The main fishing method is trap fishing (some trawl). The fishery is most productive between October and May, with less activity during the dry season months of June-August due to strong northerly winds. Fishing activity is not expected across either OA.	Field OA: No impact expected due to water depth.  Spool OA: No impact as fishery does not operate in this area.
Demersal Fishery	The fishery extends from waters 15 nm from the low water mark to the outer limit of the AFZ, excluding the area of the Timor Reef Fishery. Fishing activity is only expected to occur near the Spool OA. The fishery targets species such as goldband snapper, red snapper and red emperor and fishing methods are via vertical, drop or long lines, baited traps and semi-demersal trawl nets in some areas.	Field OA: Fishery does not operate in this area.  Spool OA: May cause displacement for up to one week, depending on the final time-frame.

**Figure 2: Northern Territory Managed Fisheries** 

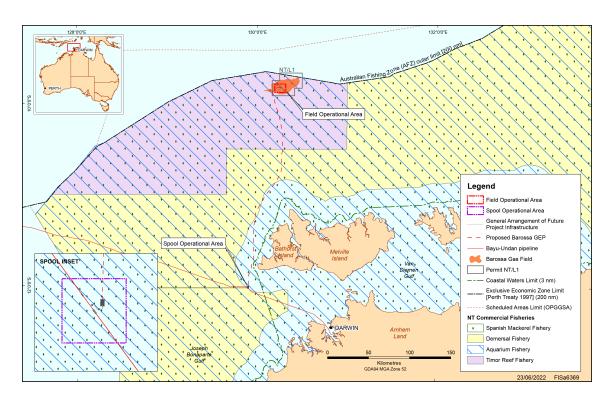


Table 3: Summary of potential impacts to commercial fisheries from the Subsea Infrastructure and FPSO Moorings Installation activities and proposed control measures

#### POTENTIAL IMPACT PROPOSED CONTROL MEASURES · Relevant commercial fishing licence holders will be notified in advance of the activities commencing, and Interference with Santos commits to ongoing communications with licence holders as requested. Australian Hydrographic commercial fishing Service (AHS) Notice to Mariners and AMSA Maritime Safety Information (MSI) will be notified in advance activities and exclusion of the activities commencing. from fishing areas · Petroleum Safety Zones (approx. 500m radius) around installed relevant subsea equipment (wells, manifolds/terminations, risers and moorings), subject to NOPSEMA acceptance and gazettal. A Precautionary Safety Zone within Operational Areas will also be requested (as per AMSA process) during the installation period. Santos will not restrict commercial fishing access to the Operational Areas, other than within PSZs, and is committed to concurrent operations where safety is not compromised. Transiting support vessels will avoid commercial vessels that are actively fishing. Introduction of Invasive Vessels are managed to low risk in accordance with the Santos Invasive Marine Species Management Plan. Marine Species (i.e. Pursuant to the Biosecurity Act 2015 and Australian Ballast Water Management Requirements 2020, exotic marine pests) vessels shall manage ballast water so that marine pest species are not introduced. Vessels will have a suitable anti-fouling coating in accordance with the Protection of the Sea (Harmful Anti-fouling Systems) Act 2006. · The installation vessels will have an Automatic Identification System (AIS) to aid with detection at sea. Vessel collision and hydrocarbon and Support vessels will be equipped with AIS and radar. chemical transfer Vessels undertaking the activities will monitor the Petroleum Safety Zone (exclusion) and Precautionary incidents Safety Zone (OAs) at all times to identify approaching third-party vessels and communicate with the vessels. Support vessels will be equipped and crewed in accordance with the Navigation Act 2012 and Marine Orders. All vessels will have a dedicated Ship Oil Pollution Prevention Plan (SOPEP). Diesel bunkering will be undertaken under a Permit-to-Work System and bunkering procedure to reduce the risk of a release to sea. An Oil Pollution Emergency Plan (OPEP) will be prepared and implemented as required.

### Figure 3: Activity Operational Areas

