



# Project Sea Dragon

## Core Breeding Centre and Broodstock Maturation Centre

### Bynoe Harbour, Northern Territory

Seafarms is proposing to establish breeding centres to select, develop and grow families of breeding prawns (broodstock) for their hatcheries as part of its prawn aquaculture proposal Project Sea Dragon.

The company is looking to locate a core breeding centre and broodstock maturation centre together on the same site at Point Ceylon in Bynoe Harbour in the Northern Territory.

The breeding facilities will occupy approximately 152 hectares and would share common infrastructure including administration and accommodation facilities, a manager’s residence, trades workshops, water storage tanks and an electrical substation for on-site power. The breeding centre and maturation centre require both seawater and freshwater, with seawater to be piped in via a water intake pipeline extending into Bynoe Harbour. Both facilities will be fully bio-secure.

### Core Breeding Centre

At the breeding centre, families of prawns will be raised in separate tanks (*example below*) to maintain genetic lineages and avoid cross-breeding. A family of prawns is a group of animals with a traceable and controlled pedigree. The top individual breeders within the top families will be selected to supply the maturation centre and produce commercial broodstock for a hatchery. Broodstock prawns are sexually mature adults that are ready to spawn.



Breeding tanks

At full capacity the breeding centre will hold up to 400 families.

The core breeding centre will comprise about 16 poly tunnels containing tanks for spawning, hatching and rearing prawn stock to the post-larvae stage, as well as buildings for growing algae feed and feed preparation.



Covered poly tunnels for a maturation centre

### Broodstock Maturation Centre

The maturation centre will be used to mature the selected post larvae and larger broodstock supplied from the breeding centre to produce commercial numbers of spawners (adult prawns) and their mates for the commercial hatchery.

The young broodstock entering the core breeding centre and the maturation centre will be Specific Pathogen Free, in good health and brought up to a suitable size and condition for breeding.

The majority of the activities at the maturation centre will be contained in raceways within poly tunnels (*example above*). In the maturation centre, prawns swim around in 500 square metre rectangular plastic-lined raceways eating and growing until they are adult prawns and ready to be transferred to the hatchery.

