

INFORMATION PACK:
**PROPOSAL FOR A SEAWEED
OCEAN FARM IN MORETON BAY**



AUSTRALIAN
SEAWEED
INSTITUTE

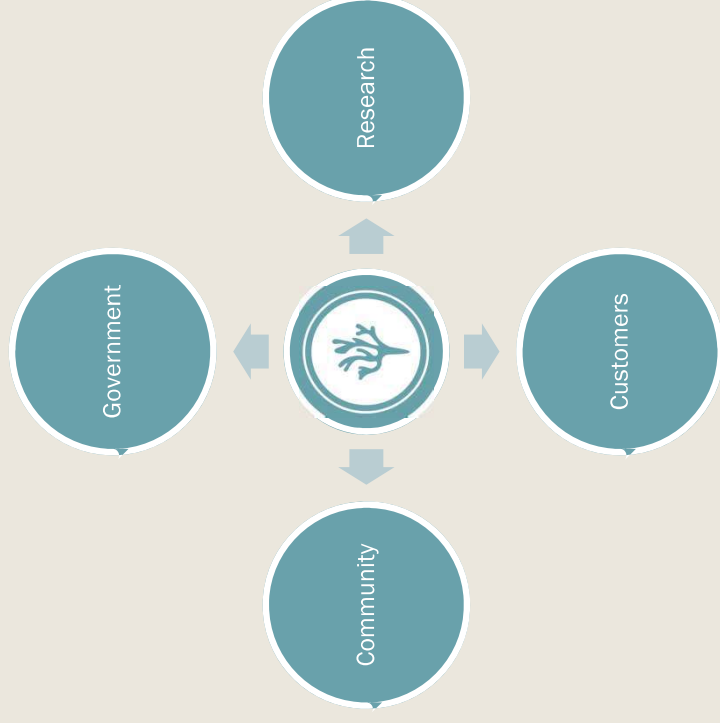
About Us



AUSTRALIAN
SEAWEED
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- We are on a mission to build a sustainable seaweed industry in Australia.
- We are committed to best practice environmental stewardship & to creating good jobs in coastal communities.
- We aim to be leaders in sustainable seaweed ocean farming in Australia.
- We are investing in research and development for biotech innovation from native Australian seaweeds.
- Our first project is proposed in Moreton Bay, Queensland.



About Seaweed

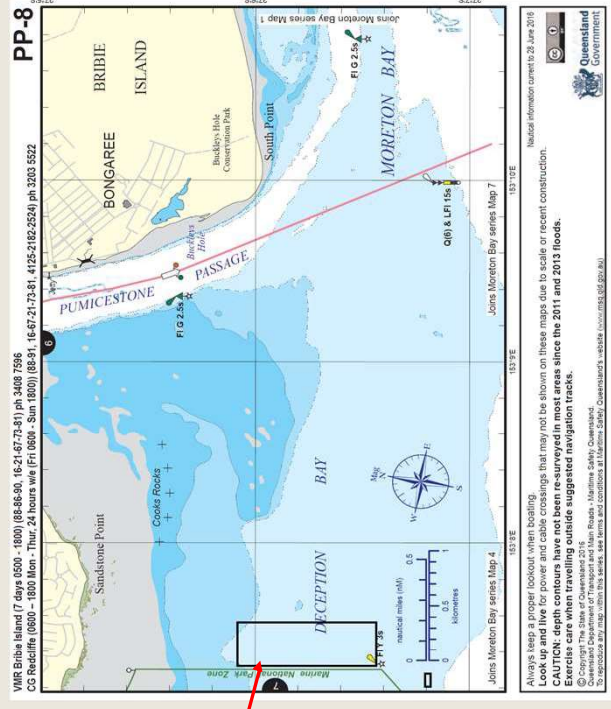
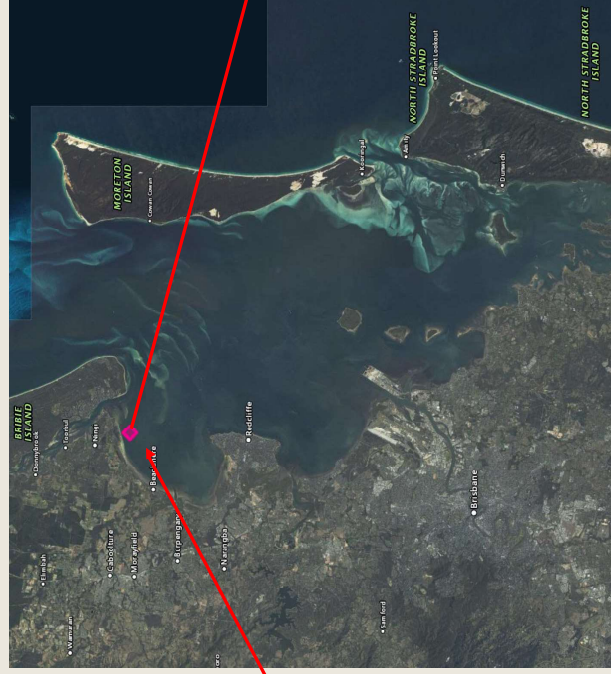


- Seaweed farming is commonplace in Asian countries and there are emerging markets in US, UK and Europe.
- Seaweed farming is a “no-feed” form of aquaculture.
- It is recognised by The Nature Conservancy and WWF as sustainable and environmentally beneficial.
- Seaweed is a rapidly growing plant and has the ability to absorb significant amounts of Carbon Dioxide, Nitrogen and Phosphorous to improve water quality and deacidify oceans and bays.
- Seaweed also provides habitat for fisheries resources to thrive.
- Moreton Bay has ideal growing conditions for high value, native seaweeds.
- Seaweed is a highly nutritious food source for humans and animals.
- Other opportunities for seaweed use include: nutraceuticals, organic fertiliser, bioplastic/biofabrics.
- Seaweed aquaculture creates new jobs in an environmentally sustainable industry.

Seaweed Ocean Farm Proposal



- Our proposal is for a 60 hectare area in Moreton Bay near Godwin Beach, adjacent to the Marine Park Green Zone. The site is approximately 750m offshore from the highest astronomical tide & a minimum of 50m offshore from the lowest astronomical tide.



VHS Brisbane Island (T) date 0509 - 1000) (08-86-80, 16-67-67-81) ph 3400 7505
 CS Seacraft (0800 - 1800 Mon - Thur, 24 hours via FTI 0600 - Sun 1800) (05-84, 16-67-21-73-81, 4105-2102-2520) ph 3200 5522

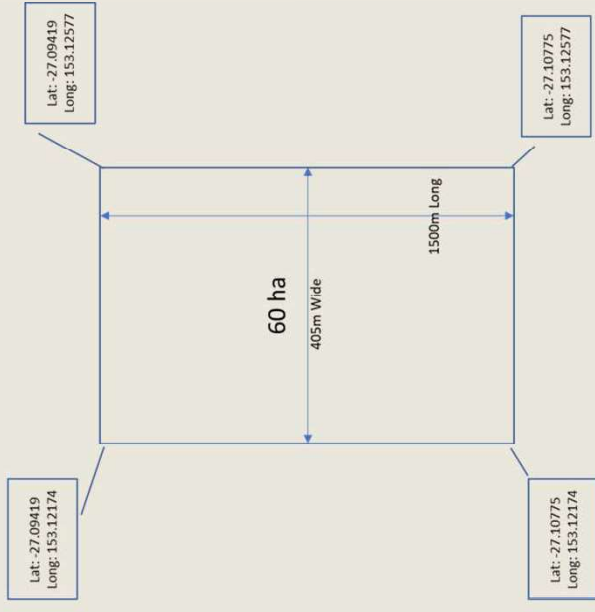
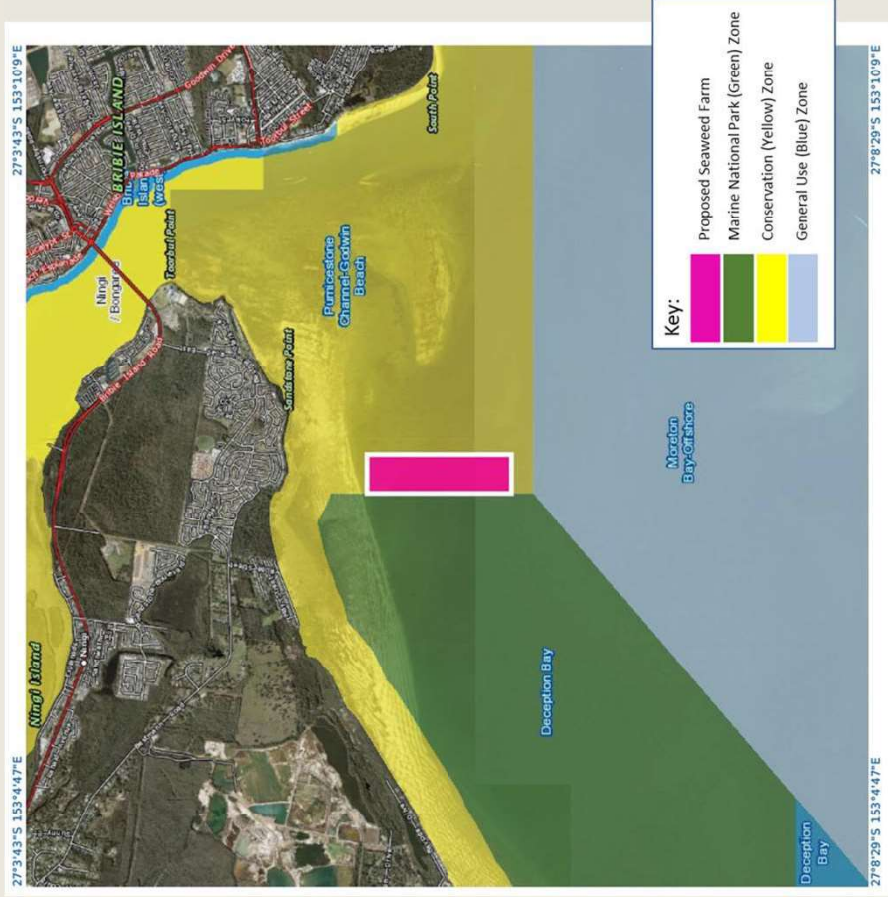
Always keep a proper lookout when boating.
 Look up and live for power and cable crossings that may not be shown on these maps due to settle or recent construction.
 Note that the 2011 and 2013 floods have changed the coastline in some areas.
 Exercise care when travelling outside suggested navigation tracks.
 © Copyright The State of Queensland 2016. All rights reserved.
 This nautical chart may only be used for navigation purposes. See terms and conditions at www.slp.qld.gov.au.



Seaweed Ocean Farm Proposal



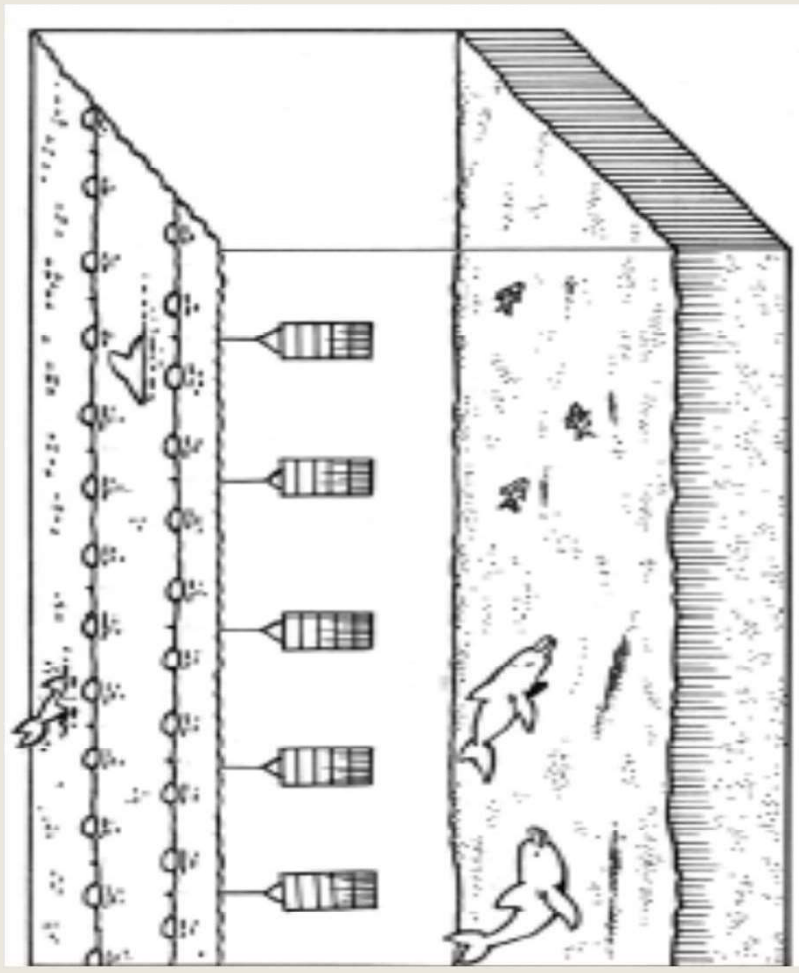
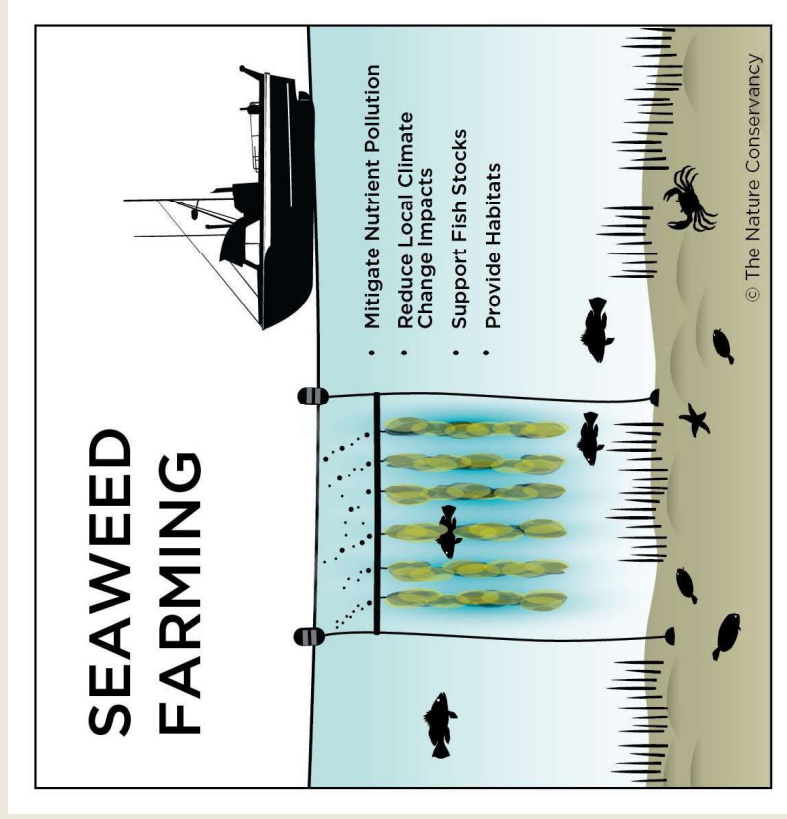
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Seaweed Ocean Farm Proposal



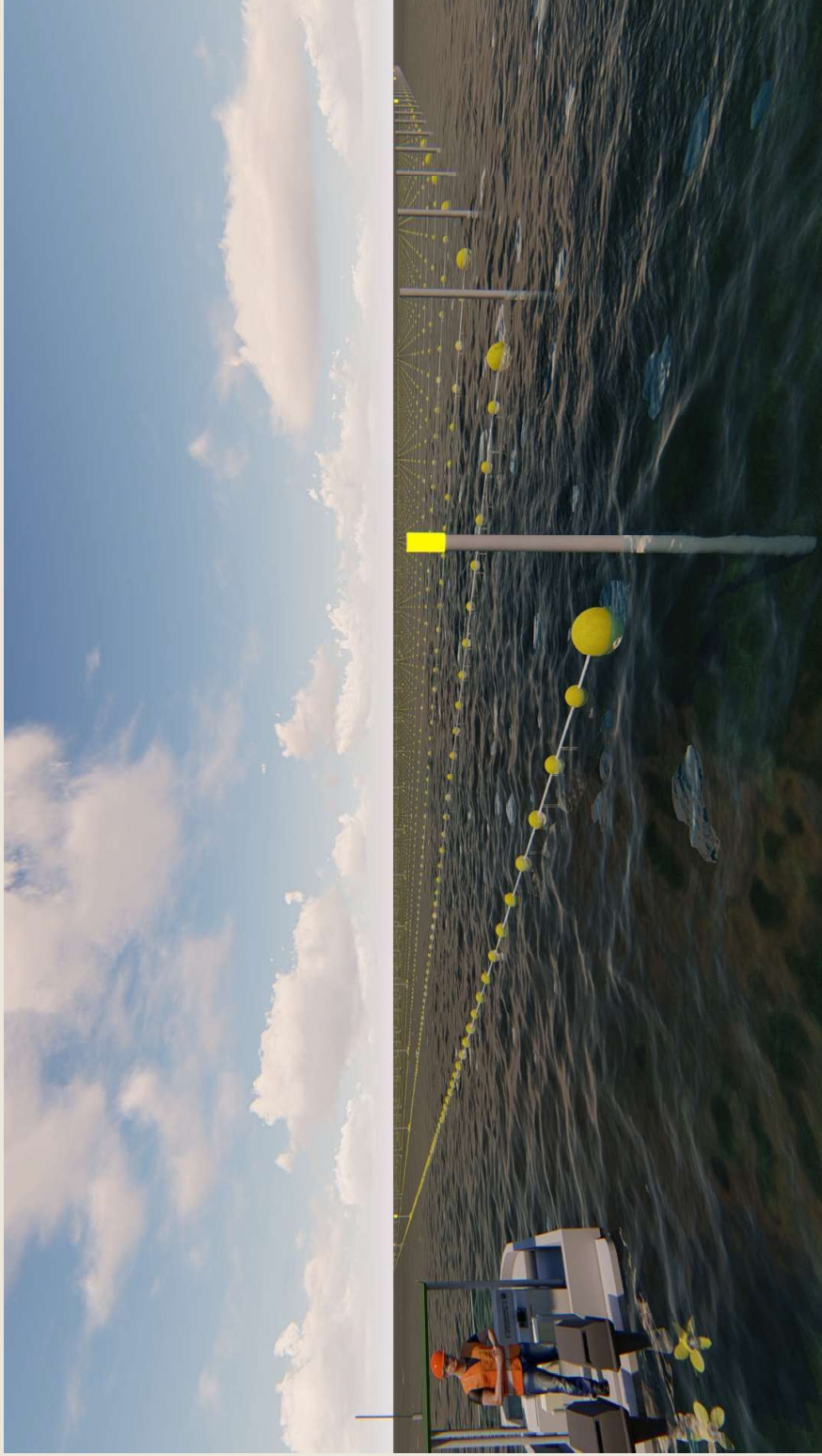
- Our proposal is for floating long lines that are anchored to the seabed by posts with the seaweed grown on ropes or in baskets/bags similar to oyster cultivation.



Seaweed Ocean Farm Proposal



- Our proposal is for a 60 hectare area with a maximum of 280 x 200m long line supported by 903 posts and over 30,000 baskets and floats would be used. We have developed a 3D model based on our engineering design and these images are shown below.



Seaweed Ocean Farm Proposal



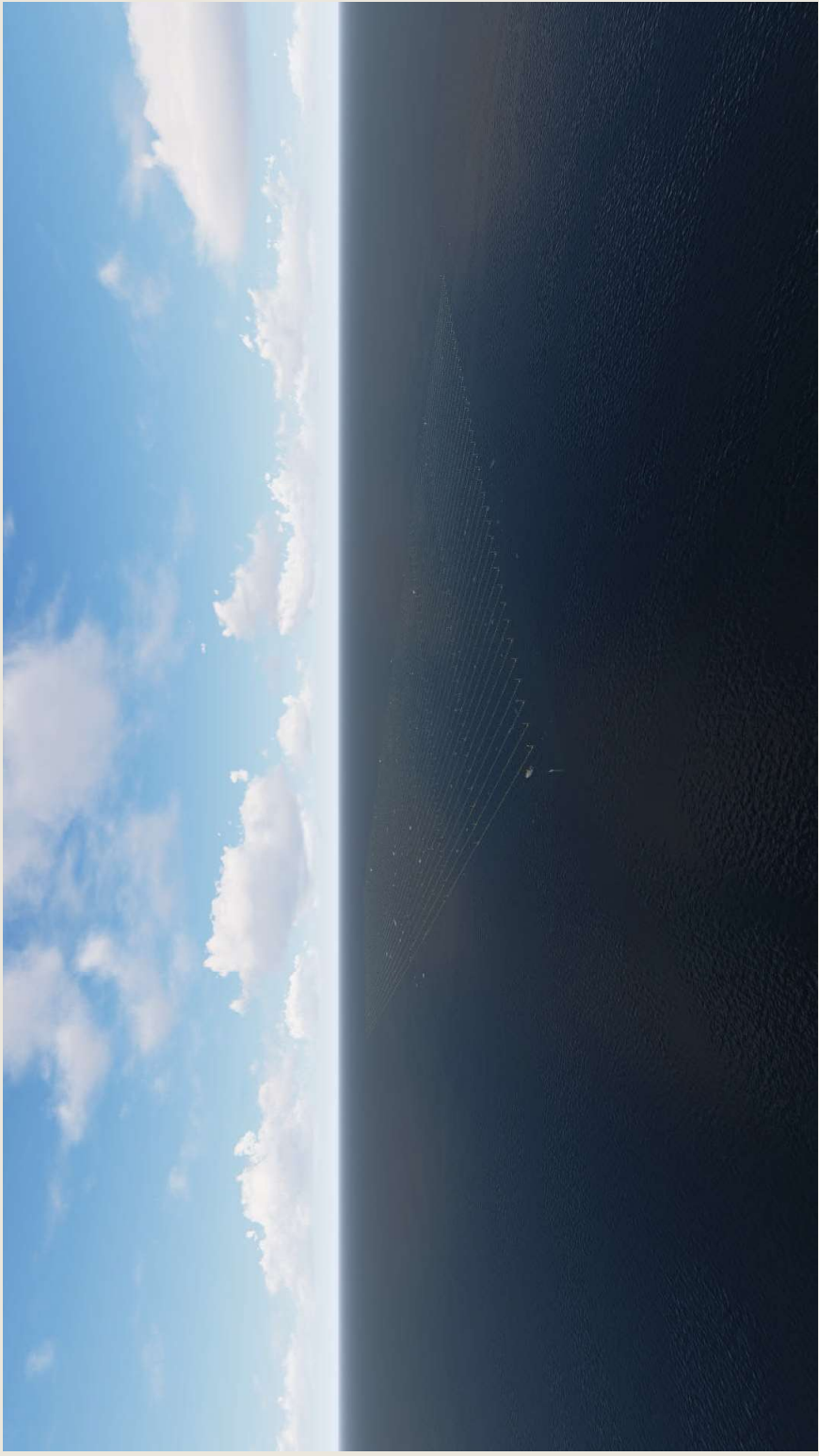
- Our farm is designed in modules with a maximum of 28 modules that cover 2 hectares each. Each module has 10 x 200m lines with 10 m spacing between rows and support posts at 100m centres. Each module has 10m access lanes between modules.



Seaweed Ocean Farm Proposal



- This image shows an aerial view of the proposed seaweed farm from a distance.



Benefits and Risks of our Proposal

Benefits

- Nitrogen and Phosphorous reduction in Moreton Bay.
- Carbon Dioxide removal and reduced acidification of Moreton Bay.
- Potential reduction in occurrence of microalgae blooms.
- Increased habitat for fisheries resources.
- Creation of 50 local jobs for the area.
- Business opportunities for maritime industry, marine ecology advisory & aquaculture service providers.
- Opportunities for research & development projects, training and education on sustainable aquaculture.

Key Risks and Management Actions

- Seagrass may be disturbed during construction, particularly during the installation of the 903 posts. Careful siting & construction techniques to be employed that will minimise disturbance during construction. No physical seagrass disturbance will occur during operation of the farm (total maximum area of benthic disturbance <25m² for construction).
- Entanglement – entanglement strategy in place. Lines to be kept taut & monitor any marine animal movement through the area.
- Bad weather events – monitoring & emergency management procedures for removal of infrastructure are in place.
- Seaweed Growth – regular harvesting & monitoring to manage biomass production. Monitoring and emergency clean up plans in place to prevent beach cast seaweed.
- Biosecurity issues – monitoring & disease/pest management procedures will apply.