

Pumicestone Shellfish Habitat Restoration

Susie Chapman





PUMICESTONE SHELLFISH HABITAT RESTORATION - Project partners

- Ngunda Joondooburri Land Trust
- Kabi Kabi First Nation
- Pumicestone Passage Fish Restocking Assoc
- Sunfish Queensland
- Digsfish Services Pty Ltd
- Carlo Sain Sebastiani Oysters
- University of the Sunshine Coast
- Moreton Bay Regional Council

- Unitywater
- Healthy Land and Water
- Australian Government National Landcare Programme
- OzFish Unlimited
- BCF
- Bureau Waardenburg
- Queensland Government Community Benefit Fund





University of the Sunshine Coast

























No exclusion zones allowed in Marine Park, so public awareness campaign implemented to reduce risk of anchor damage

> UNDERWATER OBSTRUCTIONS SHELLFISH HABITAT TRIAL

Large signs at 11boat ramps around the southern Passage

Pumicestone Shellfish Habitat Restoration

In December 2017 three types of experimental shellfish reef were installed in a onehectare area off Kakadu Beach, Bribie Island.

The Pumicestone Shellfish Habitat Restoration Project aims to re-establish the historical shellfish beds once found throughout the region, to enhance fish stocks and marine biodiversity in the Pumicestone Passage.

Please do not anchor in the trial area (indicated by shading on the map opposite) as this may damage the reefs.

For more information, visit www.hlw.org.au or www.restorepumicestonepassage.org







Project Partners:

IGSFIS

Joondoburri Land Trust Kabi Kabi First Nation Pumicestone Passage Fish Restocking Assoc. Sebastiani Oyster Farm







Oueensland Governmer





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Community oyster gardening

Produce live shell for 2017 & 2018 2019 – no live shell



Areas where gardening permitted under permit







2017 – some patch reefs surrounded by 'oyster balls'

2017 – some patch reefs surrounded by chained singled Besser blocks







Fish monitoring methodseffects of the reef across the seascape

- Remote underwater video stations (RUVS)
- 'FishMap' grid survey method
 - One RUVS deployment across every point in 200m grid
- Quantified effects of distance from reef, and fish redistribution
- ~120 sites surveyed before installation, and then every 6 months



Significantly greater fish abundance and diversity at the reef site



But do the reefs simply attract fish from throughout the estuary?

