

protecting a vulnerable habitat in western australia

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situation

2011-now • western australia

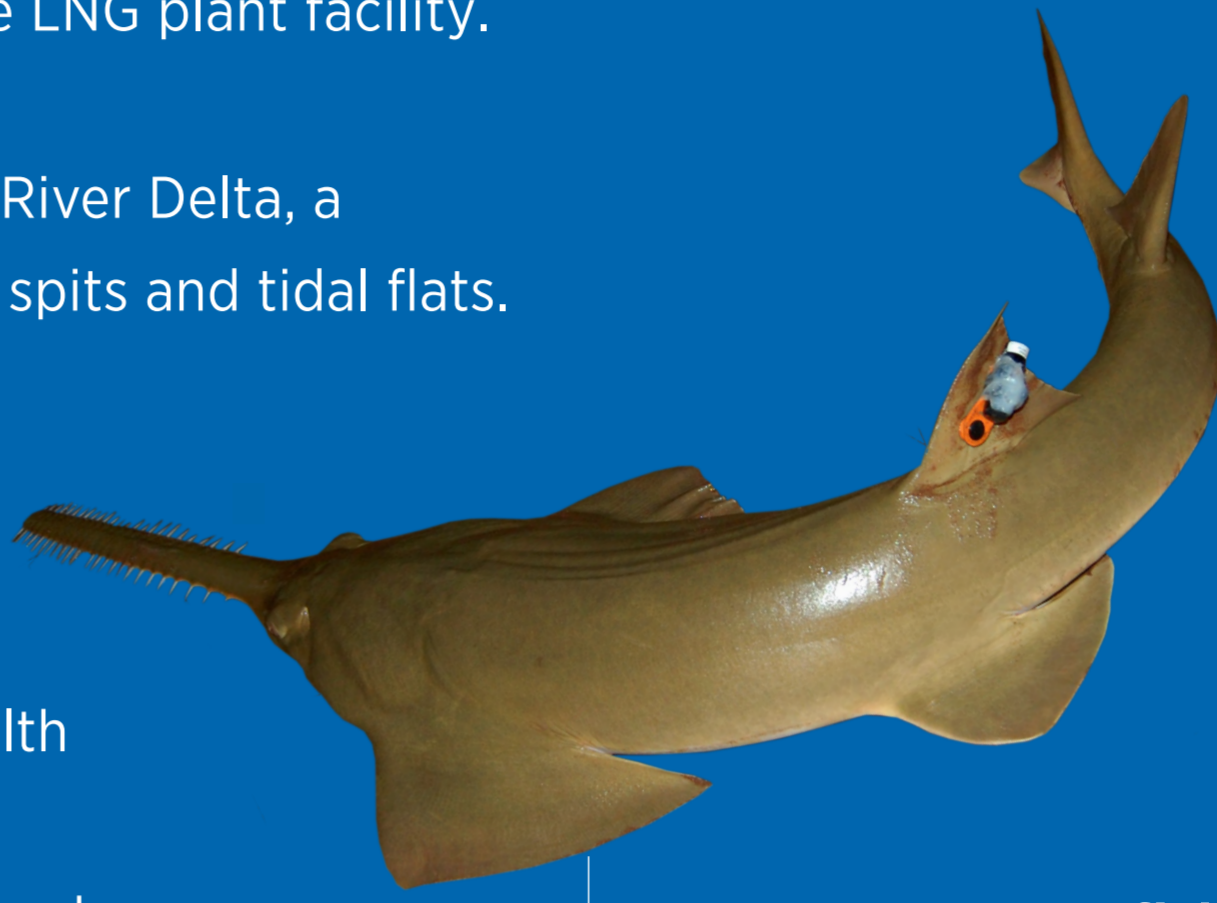
As part of the Wheatstone Liquefied Natural Gas (LNG) Project in Western Australia, Chevron needed to build a 225-kilometre pipeline (trunkline) between the offshore gas processing platform and the onshore LNG plant facility.

The facility is adjacent to the Ashburton River Delta, a dynamic system of dunes, lagoons, sand spits and tidal flats.

The delta provides important habitat for many vulnerable species, including the green sawfish.

Chevron's Environmental, Social and Health Impact Assessment (ESHIA) process identified the potential for an above-ground pipeline crossing to have significant impacts on this sensitive coastal ecosystem.

western australia



green sawfish

Classified as critically endangered by the International Union for the Conservation of Nature

mangroves

- Protect shorelines from damaging storms, winds, waves and floods
- Help prevent erosion
- Filter pollution and sediments originating from the land



actions taken

Engineers proposed boring underneath the shoreline area.

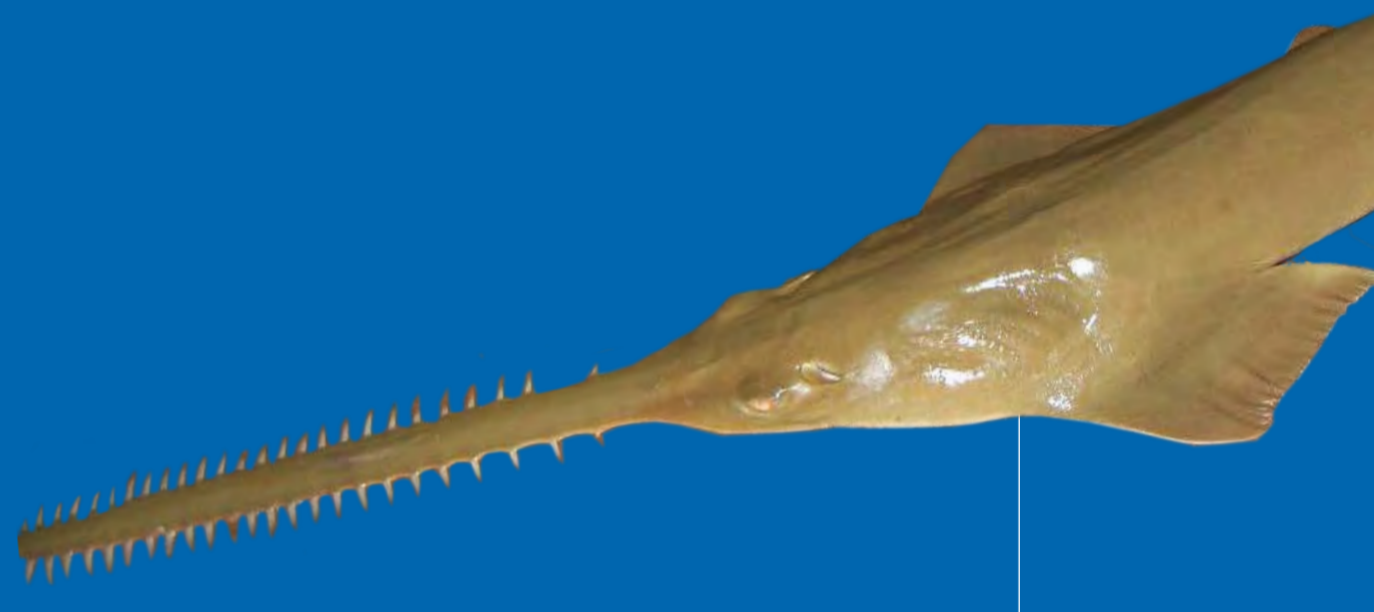


A novel micro-tunneling technique was used to install the 1.2-kilometre section of the trunkline.

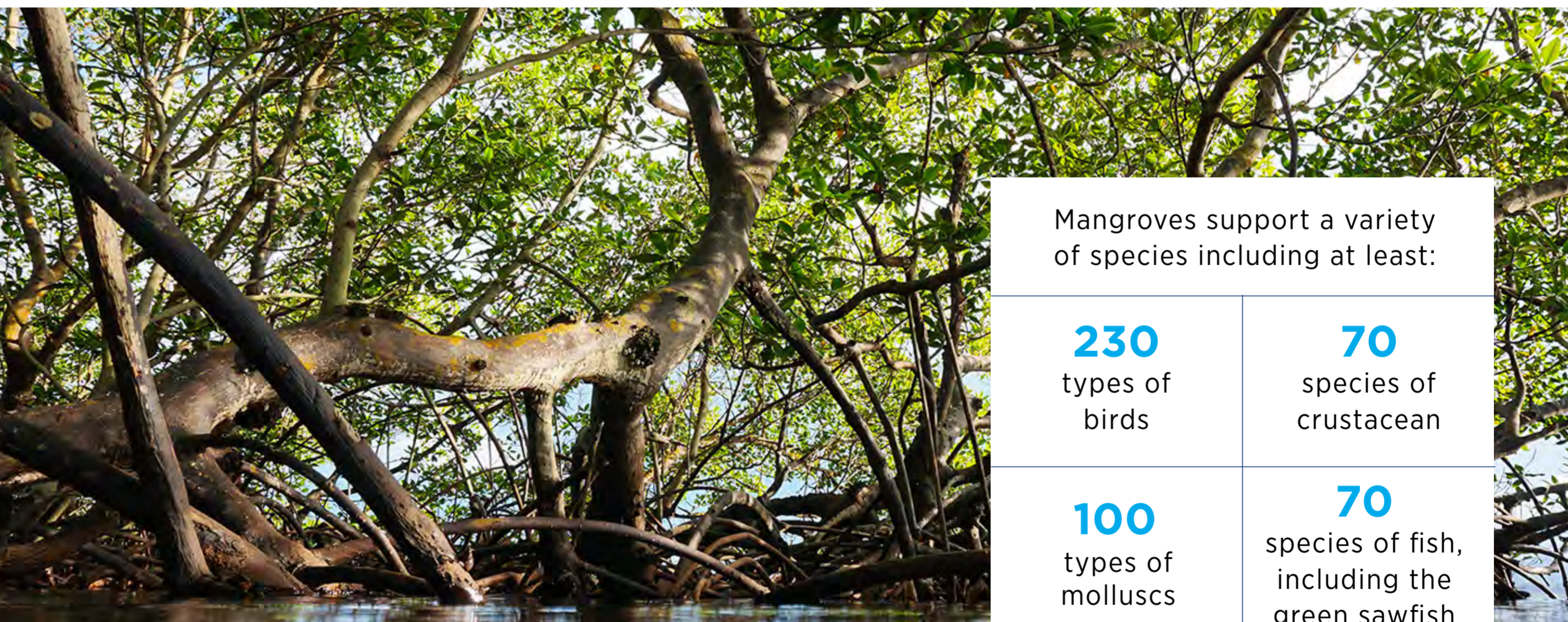
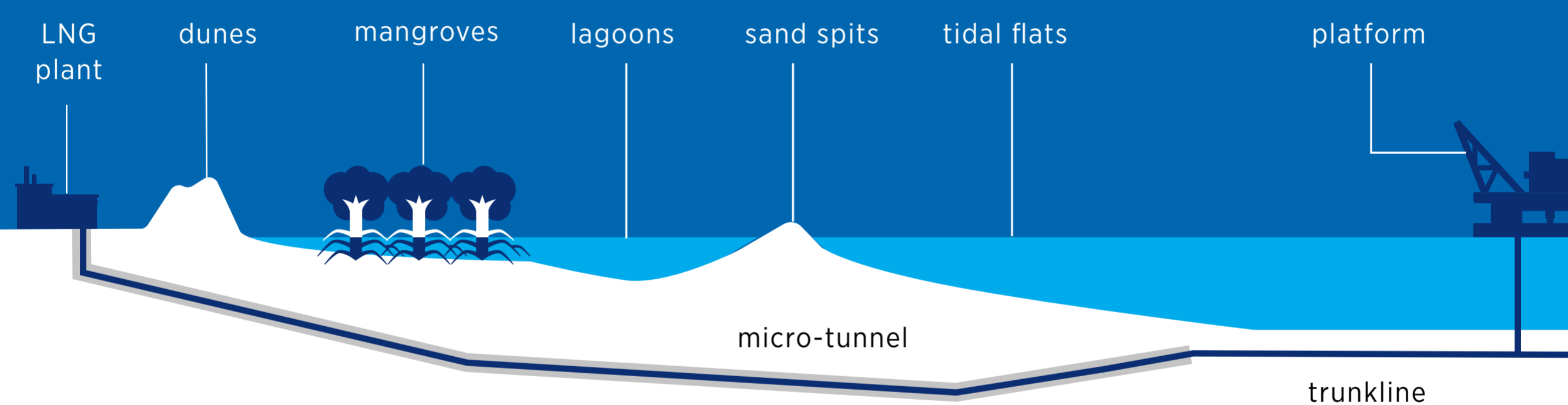


Environmental scientists performed surveys and inspections to monitor for potential impacts to the sensitive environmental receptors.

Following completion of the micro-tunneling process and subsequent installation of the trunkline in 2014, on-ground monitoring and aerial remote sensing data indicated no disruption to local coastal processes and no disturbance or loss of mangroves.



The green sawfish is a ray with a shark-like body and an elongated snout containing up to 34 pairs of saw teeth. These "teeth" are modified scales that are used to locate, stun, and kill prey



Mangroves support a variety of species including at least:

230

types of birds

70

species of crustacean

100

types of molluscs

70

species of fish, including the green sawfish



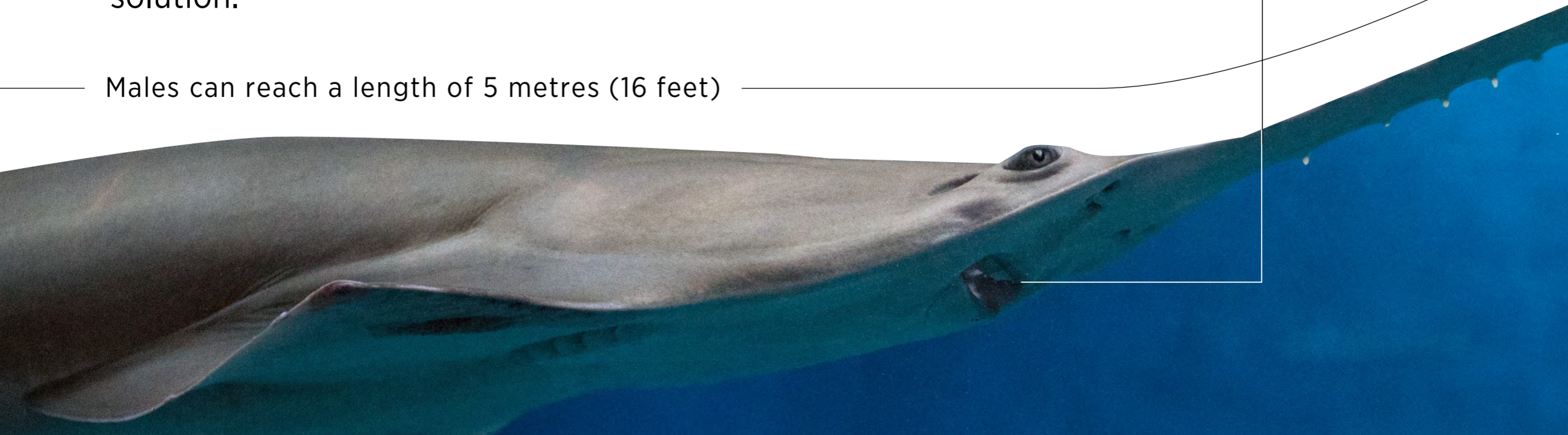
results

The innovative shoreline crossing solution preserved the lagoon, which serves as a nursery habitat for the green sawfish, as well as nesting and feeding grounds for dozens of other species.

Chevron Australia was awarded the 2015 Golden Gecko Award for Environmental Excellence by the Government of Western Australia, Department of Mines and Petroleum for utilising the micro-tunnel solution.

Males can reach a length of 5 metres (16 feet)

Green sawfish have real teeth inside their mouth, located on their underside



Our actions were consistent with our goal to conserve biodiversity:

we strive to avoid or reduce the potential for significant impacts on sensitive species, habitats and ecosystems.