

# Mandurah Estuary Bridge Duplication Project Construction Update

**This update contains important information about anticipated upcoming works to occur in August but are subject to change.**

## Fishing platform piling noise and vibration

Land and marine based piling for the construction of the fishing platform will get underway on 5 August for about two weeks. These piles are 400mm-wide steel tubes with concrete infill that are up to 28m long. The land-based piles will be installed within the eastern reclamation pad area, while the marine piles will be installed using a floating piling barge and support vessel. Those living close to the project area may experience vibrations and noise with the piles being vibrated and then hammer-driven into place to the required depth below the ground surface.

The marine piles for the new fishing platform will be installed on the northern side of the existing bridge around 30 August. Road traffic and bridge footpath users will see the piling rig mast within one metre to the edge of the bridge. While the eastbound traffic lane and footpath will remain open, traffic management will be in place to ensure the safety of motorists, pedestrians and cyclists.

## Waterside Drive car park partial closure

We will need to close part of the Waterside Drive Boat Ramp car park in late August/early September on two days as we setup and disassemble various equipment. The map opposite shows the impacts to the car park.

Following the installation of the two northern piles, the barge will relocate to the southern side of the existing bridge and install the remaining piles required for the fishing platform. This is expected to be completed by late September. Once the installation of the steel tubes is completed, these will be filled with reinforced concrete and construction of the fishing platform deck can be completed.



## Bridge marine piling works

The bridge pier piles will arrive on a 180ft (55m) long barge, which will make its way into the estuary under tow via the Dawesville Cut channel to site mid-August. Piling works will start in August and continue until late 2024.

Similar to the fishing platform, these piers are vibrated first, then hammer-driven into the water using a 500-tonne crane mounted on the barge. The barge will work on the southern side of the existing bridge supported by smaller vessels.

These 40m piles will be loaded from the eastern reclamation pad into the estuary where they will be towed across the water onto the main piling barge. The barge will start piling on the eastern side, moving across to the western side of the bridge. Once these piles are fully driven into the riverbed, a precast shell will be installed into position to enable the follow-on works including, pile case infill and pile cap construction followed by the pier column construction.

During these stages, residents living nearby can expect ongoing noise and possible vibrations during the day. Those using the current fishing platform during piling works are advised that there will be loud noise from the piling driving works. Estuary users will see smaller support vessels for the construction works as well as floating walkways being installed for access purposes.

We will also continue to have Marine Mammal Observers (MMOs) working during the piling works to monitor for dolphins.

## Vessel management plan

The Project has submitted a Vessel Management Plan to the Department of Transport and the City of Mandurah outlining all marine vessel traffic while we are actively working in the water.

The vessel speed limit will remain at 8 knots for the duration of the works, and it is also anticipated that the main navigational channel (between piers four and five) will remain open while we will have construction barges present within the estuary. At times minor realignment may occur for specific works.

Floating walkways or pontoons will be set up and secured between piers two, three and four, and piers five and six linking up to each foreshore, enabling workers to safely access the piers. The fishing platform will remain open however, users are advised it will be noisy during piling works. On occasion, the barge will need to cross the navigational channel and we will have boat traffic control in place when this occurs.

All estuary users (motorised and non-motorised) are now required to use the navigation channel highlighted above in green until pier works are completed late 2024.



## Egret Point reclamation pad

The preloaded sand currently at Egret Point is expected to be settled and suitable for use in late August. From 23 August, we will start moving this material across Egret Point Road towards the estuary to build the western foreshore working pad.

A 'stop-slow' traffic management system will be in place for all traffic, including pedestrians and cyclists. There may be minor delays when using the footpath. The Egret Point Road car park will be accessible during these works.

## What can I expect this month?

- Noise and vibrations from piling activities
- Active plant, vehicles and machinery moving in and around all sections of the project site including the estuary.

### Waterside Drive

- Storage of embankment material (sand) for post construction of limestone retaining walls

### Waterlily Drive

- Land-based piling works for the fishing platform
- Noise from the ongoing operation of the casting bed (hand-tools etc)
- Noise from concrete trucks, pumps and the crawler crane operations
- Oversize loads delivering the steel casing for marine piles
- Potential fumes or smoke from welding activities
- Temporary site car park in operation
- Preparation for first bridge segment concrete pour 5am start on 20 August (pending approval)

### Seahawk Drive

- Ongoing work on limestone retaining walls, including minor clearing

- Drainage installation

### Leisure Way/Egret Point Road area

- Works commencing on limestone retaining walls
- Temporary footpath now in operation connecting to bridge underpass
- Reclamation pad construction. Partial removal of fill
- Drainage installation

### In the estuary

- Piling works for the fishing platform
- Updated buoys and navigational markers.
- Construction barge and support vessels working either side of the navigation channel,
- Construction of the western reclamation pad off Egret Point Road south of the existing bridge.
- Construction of the substructure (piers and columns)

## Out of hours works

Site works and concrete pours will commence at 5am on Tuesday 20 August for the first bridge segment (approval pending at time of print). Residents can expect disturbance from on-site noise and lighting as well as increased early morning traffic.

We apologise for any disturbance these necessary early morning works may cause. This early morning work is essential to meet the durability and specification requirements for the bridge. For more information on concrete pours, please check our Launching the bridge FAQ document on the Mandurah Estuary Bridge Duplication webpage

## Other service works

Western Power's contractor (GUS) continues working along Waterside Drive and Egret Point Road in the project area as well as separate investigations into existing lighting issues along Mandurah Road and footpaths. These works are unrelated to the project and likely to be ongoing during August.

## Further information

Jointly funded by the Australian and Western Australian Governments, the \$136 million Mandurah Estuary Bridge Duplication project is delivering a second, two-lane bridge on the south side of the existing structure to provide additional traffic lanes. A new four-metre-wide shared path will also be built to help the local community better access recreational activities. A new accessible Fishing Platform will also be provided on the eastern foreshore. To stay up to date with the latest project information, please visit [www.mainroads.wa.gov.au/mebd](http://www.mainroads.wa.gov.au/mebd) and subscribe for project updates. You can also join our Facebook Group, [Mandurah Estuary Bridge Duplication Community Group](#).