

Mandurah Estuary Bridge Duplication

Sustainability Objectives and Targets

Table 1 Project Sustainability Objectives and Targets

Sustainability Objectives	Targets	Phase
Protect, enhance and integrate the existing uses of the Estuary 'place'.	Enhance the existing recreational facilities and connected path network within the project area for all-abilities users, by: <ul style="list-style-type: none"> implementing a new accessible fishing platform and associated fishing facilities; new accessible carpark with six ACROD parking bays; and enhanced shared path network. Demonstrated through survey that 75% of responders are satisfied the quality of place has been improved.	Design & Construction
	Improve existing recreational facilities through new playground and educational facilities, promoting the local environment.	Design & Construction
	Incorporate at least three pieces of urban design into the Project incorporating themes that reflect the history, Aboriginal heritage, and/or environment of the local Mandurah Estuary area. Consult and incorporate input from Local Bindjareb Noongar people into all artwork reflecting Aboriginal culture. Create an additional seating node and collaborate with the Local Bindjareb Noongar people to enhance appreciation of the area.	Design
Protect and enhance the local environmental features.	Provide Marine Mammal Observer (MMO) monitoring data from the construction phase to the Mandurah Dolphin Research Project.	Construction
	All plant species used for landscaping are indigenous species (endemics).	Design & Construction
	Provide permanent interpretative elements regarding the heritage and environmental value of the area, recognising dolphins of the Peel-Harvey Estuary, the RAMSAR Wetland status and migratory birds.	Design & Construction

Sustainability Objectives	Targets	Phase
Improve accessibility, capacity, connectivity, and safety for all users.	Increase eastbound morning peak hour median speed by 10% compared to pre-construction traffic conditions.	Design & Construction
	Reduce crash frequency (rear and side swipes) within Project area compared to pre-construction crash statistics.	Design & Construction
	Undertake a permeability assessment and achieve an improved Link and Place (Jones & Boujenko, 2009) score, Movement and Place score or similar methodology, including facilitating safe path access to bus stop ID 27635 on the south side of Mandurah Road.	Design
Maximise business and employment opportunities for local communities.	At least 3.5% project spend on materials sourced within 50km radius of MEBD.	Design & Construction
	At least 3.5% of contract value is awarded to registered Aboriginal businesses during construction phase.	Design & Construction
	Provide two local businesses within 50km radius of MEBD who have not completed MRWA works, ability to competitively tender, understand specifications and quality requirements, and successfully submit bid for works on the project.	Design & Construction
	At least 7% of project value spend on businesses within a 50km radius of MEBD.	Design & Construction
	Keep navigational channel open for at least 95% of the construction project program.	Construction
Deliver a durable, resilient, low maintenance bridge that delivers value for money across all project phases.	Implement at least three opportunities to reduce maintenance compared to the existing Mandurah Estuary Bridge.	Design & Operation
	Identify and treat high climate and natural hazard risks and priority shocks and stresses within permanent design, to deliver a more resilient asset and associated infrastructure.	Design, Construction & Operation
	Design and install motion sensor lighting on the fishing platform and carpark, to reduce energy and emissions and light impacts to sensitive receptors.	Design
	Greater than 75% of all stakeholders are satisfied that their input has influenced positive outcomes on the Project.	Design & Construction
	Beneficially re-use at least two resource outputs on the Project.	Design & Construction
	Achieve an Infrastructure Sustainability Council (ISC) Infrastructure Sustainability (IS) V2.1 Design and As Built Silver Rating.	Design & Construction

Sustainability Objectives	Targets	Phase
	Implement opportunities to optimise the use of materials on the Project and achieve a reduction in the environmental impacts of materials across design, construction and operational life of the asset, by a minimum of 10%.	Design, Construction & Operation
	Implement opportunities to reduce energy use and emissions across design, construction and operational life of the asset, by a minimum of 10%.	Design, Construction & Operation
	Implement opportunities to reduce water usage across design, construction and operational life of the asset, by a minimum of 10%.	Design, Construction & Operation
Deliver a high-quality outcome that is socially and environmentally sustainable and responds to the context and character of the area.	At least 85% of all treated Acid Sulfate Soils (ASS) is diverted from landfill (including >50% onsite reuse) in line with the DWER approved ASS Management Plan.	Design & Construction
	At least 85% of all clean/inert material excavated is diverted from landfill (including >50% onsite reuse of clean/inert excavation spoil).	Design & Construction
	At least 60% of all office resource outputs are diverted from landfill.	Construction
	At least 70% of all other inert resource outputs are diverted from landfill.	Construction
	Greater than 70% of all water used for construction purposes is recycled wastewater, sourced from Halls Head Waste Water Treatment Plant.	Construction
	Minimise light pollution and impacts to sensitive receptors, demonstrated through no more than 2 horizontal lux level over the project boundary and 2% upward light ratio (excluding decorative lighting).	Design
	Minimise impacts of noise emissions to nearby receptors as a result of the Project, by ensuring all mitigation measures specified in the EMP are implemented and no recurring unresolved exceedances of noise goals.	Construction
	Minimise impacts to nearby receptors as a result of vibration generated by construction activities associated with the Project, by ensuring all mitigation measures specified in the EMP are implemented, and no recurring unresolved exceedances of vibration goals.,	Construction
	Achieve at least 10% Indigenous people in the workforce.	Construction
	Achieve at least 10% women in the workforce.	Construction
	Improve wellbeing for all employees on the Project through a Health and Wellbeing Plan, demonstrated by achieving >80% positive score in the team sentiment survey.	Construction

Further information

The 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, including fishing. The \$148.8 million project is jointly funded by the Australian and Western Australian Governments.

To stay up to date with the latest project information, please visit www.mainroads.wa.gov.au/mebd, subscribe for project updates, or contact our Customer Information Centre on 138 138 or enquiries@mainroads.wa.gov.au.