



Department of
Transport

Maritime Planning

Coastal Infrastructure Business Unit



Overview

Maritime Planning (MP) is a branch of the Department of Transport's (DoT) Coastal Infrastructure Business Unit (CIBU). Maritime Planning researches and prepares strategic plans and detailed designs for the development and enhancement of land and water based maritime infrastructure. MP uses scientific information from the Coastal Information branch and works closely with the Project Delivery branch that has responsibility for construction. Guidance on the delivery of maritime facilities and coastal engineering solutions is provided to both State Government agencies and the private sector in WA.

MP has a particular focus on the development of small craft facilities and in providing expert advice on coastal management issues. The branch works closely and engages with key stakeholders including State and local governments, local communities, the private sector and DoT's regional offices to build effective partnerships and meet the coastal infrastructure needs of the WA community.

MP teams deliver the following programs which are unique within the State Government:

- **Coastal Management**
Undertakes and provides specialist advice on coastal engineering, sustainable approaches to coastal management and scientific investigations including data collection and analysis. Coastal Management also manages and administers the Coastal Adaptation and Protection (CAP) grants program.
- **Infrastructure Planning**
Initiates investigations into the need for maritime facilities, undertakes planning for identified facilities,

and, provides a regulatory and advisory role for maritime facilities proposed by others. Infrastructure Planning also manages and administers the Recreational Boating Facilities Scheme (RBFS) grants program.

- **Maritime Projects**

Undertakes the investigation and planning processes required to advance larger and more complex maritime projects to the stage where they are ready for development.

These three programs endeavour to ensure that the coastal infrastructure needs of WA are met through forward planning to meet increasing boating facility needs, the delivery of innovative and cost-effective maritime facilities, and the provision of sound coastal engineering solutions.

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Coastal Management

Coastal Management (CM) provides coastal engineering design and direction to enable the development of CIBU's coastal infrastructure and provides advice externally to coastal managers, local governments and other government agencies. There is an ever-increasing demand for these services due to the growth in WA's population, the desire of many to live near the coast and the resultant rise in development proposals on or near the coast.

Key outputs

CM consists of engineers and scientists with specialist coastal expertise who integrate with other specialists and experts within CIBU in:

- Coordinating the collection and analysis of coastal data (survey, wave, tide, current, aerial and field photography)
- Undertaking research and investigation of coastal processes, including the influence of climate change (particularly sea level rise) and coastal vulnerability
- Developing and implementing coastal strategies
- Delivering expert coastal engineering advice and/or project managing coastal engineering issues
- Providing specialist coastal adaption and protection advice to assist with sustainable coastal management along the WA coastline
- Undertaking the coastal engineering design of maritime facilities
- Managing and administering the CAP grants program.

Front cover: *Port Geographe, Busselton WA*



Recent successes

- Augusta Boat Harbour flushing, seagrass wrack analysis and breakwater design.
- Casuarina Boat Harbour preliminary breakwater design, and flushing study.
- Two Rocks Marina geomorphology, boat harbour flushing and seagrass wrack transport study.
- Bremer Bay groyne design.
- WA coastal sediment cell mapping for Mid-West, Northampton and Pilbara region.

- CAP grant program. Refer DoT website for details.

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Infrastructure Planning

Infrastructure Planning (IP) undertakes research, investigation, planning and design for the development and improvement of small craft facilities.

IP has specialist expertise in :

- Investigating the need for boating facilities
- Planning and conceptual design for the enhancement and development of land and water based maritime facilities
- Provision of a regulatory and advisory role in relation to maritime facilities proposed by others (public and private sector)

Key outputs

- Strategic boating infrastructure plans and demand studies for key locations along the WA coast.
- Statutory planning advice to State Government agencies and local governments.
- Master plans for DoT's boating facilities.
- Management of the RBFS grant program.

Current projects

- Strategic planning for the expansion and development of the Two Rocks Marina.
- Detailed planning for Stage 2 of the Exmouth Boat Harbour Upgrade.
- Progressing the development of the Woodman Point Recreational Boating Precinct, including detailed design for the Stage 2 Trailer Parking Area.
- Planning for land release and facility expansion at Onslow Beadon Creek.

- Detailed planning for the upgrade of Denham marine and land based infrastructure in partnership with local government
- Strategic boating facilities study for regional WA
- Progressing detailed designs for Jurien Bay Boat Harbour Masterplan
- Coordinating and administering the RBFS.

Recent successes

- Planning and design of Augusta Boat Harbour.
- Southern Precinct masterplan for Jurien Bay Boat Harbour.
- Development of a land use framework document for Beadon Creek Boat Harbour, Onslow.
- Masterplan for Woodman Point Recreational Boating Precinct.
- Strategic boating facilities studies for the Metropolitan and Peel regions.
- Planning for the asset replacement of pens in Fremantle Fishing Boat Harbour, Hillarys Boat Harbour and Batavia Coast Marina, Geraldton.
- RFBS grant program. Refer DoT website for details.

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Maritime Projects

Maritime Projects (MP) progresses investigations, planning, design and approvals where necessary to advance complex maritime projects, including up to the stage where they are ready for development. MP is involved in resolving project challenges including undertaking stakeholder engagement, negotiations, obtaining regulatory approvals, seeking project funding and establishing project designs and costs.

Current projects

Jurien Bay Boat Harbour Improvement Works

Initiated a major research program at Jurien Bay Boat Harbour to develop a strategy to secure an improved harbour environment. It involves investigative studies, data collection and computer modelling to examine management options to improve water quality and amenity at the harbour.

Bunbury Maritime Facilities

Developed plans for the future of DoT's Casuarina Boat Harbour at Bunbury. MP is providing key input to the Bunbury Marine Facilities Steering Committee (BMFSC), and is working with the South West Development Commission to progress planning for new marine facility initiatives in Bunbury and to seek funding opportunities.

Bunbury – The Cut

Investigated access and emergency repair options with other stakeholders following a breach of the northern rock wall in winter 2012.

A local agency stakeholder working group was established that facilitated approvals for an initial phase of emergency works. The emergency works were undertaken over a four week period from mid-April 2014 and were substantially complete before a storm event prevented further heavy haulage access to the site.

MP is currently working with other agencies to resolve management responsibilities and is undertaking preliminary investigations for maintenance of all the rock walls.

Recent successes

Jurien Bay Boat Harbour - Dredging Works

Provided strategic project support for a \$1.8 million dredging program completed in early 2015. The dredging removed approximately 88,000m³ of sand and seagrass and restored navigable depths through the entrance of Jurien Bay Boat Harbour. It completed the first stage of improvement works and investigation to address navigation and seasonal water quality problems in the harbour.

Port Geographe Coastal Reconfiguration Project

Coordinated technical investigations, scientific modelling and community consultation to complete the planning and design process for the Port Geographe reconfiguration project, completed in 2014. MP is currently finalising environmental management plans, and ongoing management requirements for the reconfigured coastal structures.

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