

SECTION 4 - SCOPE OF WORKS

Without otherwise limiting the obligations of the Contractor under the Contract the Contractor must in the delivery of the Works do all things described in or which can reasonably be inferred from this Section 4.

4.1 Project Description

The Principal has identified the need to widen the existing shipping channel and swing basin at Outer Harbor in the Port of Adelaide. This is being driven by the emergence of Post Panamax class vessels which are wider than the 36m design vessel width of the existing channel and swing basin. Outer Harbor can only currently accommodate vessels up to a maximum of 42.2m width with operational restrictions. The Outer Harbor Channel Widening (OHCW) Project will enable the Port to accommodate vessels with a maximum width of 49m once complete, without operational restrictions.

The optimal upgrade to meet this growing demand is to widen the existing 130m wide channel by approximately 40m, and widen the existing 505m diameter swing basin to 560m diameter. This requires dredging of approximately 1.382 million m³ of material (including batters but not including over dredging). Assumed over dredge of 0.3m in widening areas results in approximately 138,000 m³ of potential additional material to be removed, totalling approximately 1.52million m³ of material.

The channel will be dredged to achieve the design width of 170m, with the dredged material to be placed approximately 30km off-shore in Gulf St Vincent (the same location utilised in a previous capital dredging campaign in 2005, a zone approximately 7km by 5km in size located in deep water (>30m) and avoiding major shipping routes).

The Principal and Contractor shall work in a collaborative manner for the successful outcome of the Project. The Contractor shall provide full assistance to the Principal in obtaining all necessary approvals and licences, including Government Authority Approvals and discussions with the EPA and other organisations as necessary.

Refer to Figure 1 for further details of the project location.

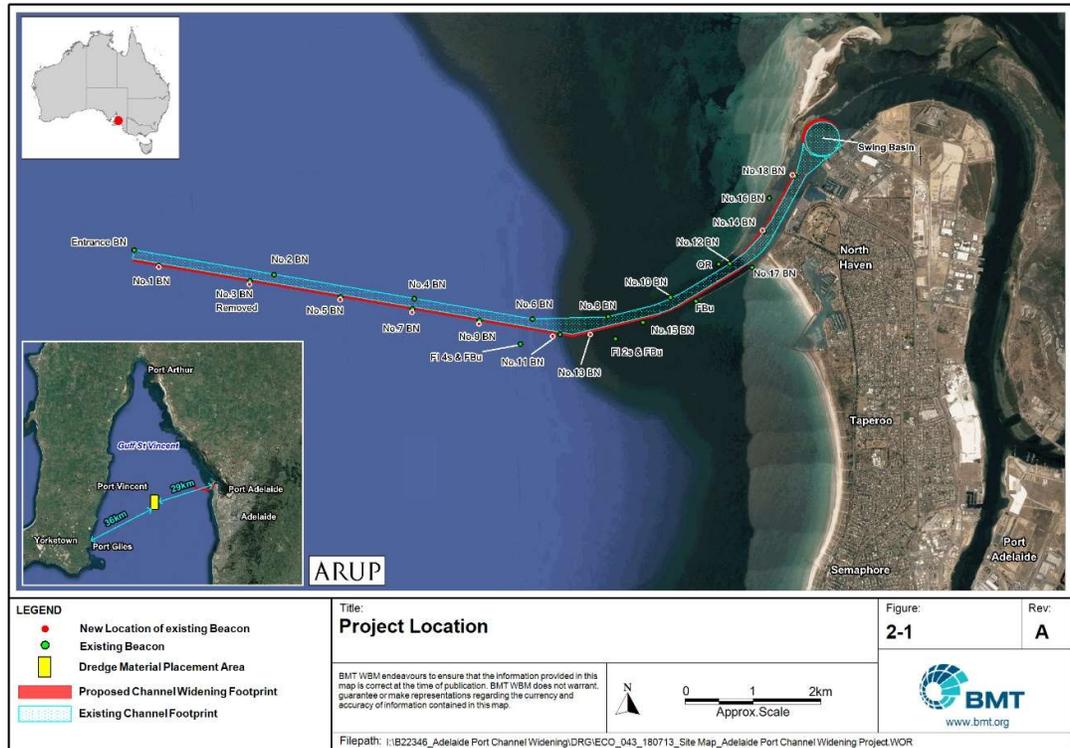


Figure 1: Project Location

4.1.1 Scope of Work

The Contractor is required to undertake the following works and to supply all necessary labour, plant and materials to perform those Works:

- (i) dredging of the Outer Harbor channel to widen the channel to 170m to a depth of not less than 14.2m LAT,
- (ii) widening of the existing OH6 swing basin to 560m to a depth of not less than 14.2m LAT, and
- (iii) disposal of the dredged material at the nominated offshore disposal site (Dredge Material Placement Area).

In performing these works, the Contractor's Scope of Work includes:

- (i) carrying out and meeting the requirements of the Technical Specification;
- (ii) design and provision of any temporary works needed;
- (iii) provision and maintenance of site facilities including lay-down area, washroom, toilets, lunch rooms and first aid facilities, both for the Contractor and Principal's Site Representative (PSR);
- (iv) provision of and paying for any temporary site services needed during the performance of the Contractor's Activities such as power, water and communications;

- (v) obtaining all necessary permits and approvals other than those obtained by the Principal as outlined in the Technical Specification;
- (vi) preparation and implementation, including the obtaining of any approvals of any additional conditions over and above those provided with this Contract or included in the Technical Specification, needed for the Works;
- (vii) doing all things necessary to facilitate the transfer of and receive the transfer of the EPA Dredging Licence applied for and obtained by the Principal. The Contractor is responsible for complying with the conditions of the dredge licence and Development Approval and ensuring all requirements of these approvals are met;
- (viii) development of appropriate WH&S, environmental and quality assurance documentation for the performance of the Contractor's Activities;
- (ix) development and documentation of a WHS Management Plan for safe delivery of the Works;
- (x) implementation of the requirements and conditions set out in the Principal supplied Development Approval and framework Dredge Management Plan
- (xi) removal of any siltation above the design dredge levels in all of the specified dredge areas until final acceptance by the Principal's Site Representative such that the dredge area is delivered as a whole in one part;
- (xii) provision of all dredging equipment and materials including:
 - a. the dredge(s)
 - b. the barge(s) for transporting material from the dredge area to the disposal area
 - c. all survey equipment necessary for the Works
 - d. any other ancillary or support machinery or equipment necessary to complete the Works;
- (xiii) provision and maintenance of environmental management outlined in the Technical Specification;
- (xiv) provision of documentation and reports as required by the Principal;
- (xv) maintaining site records accessible to the Principal's Site Representative;
- (xvi) provision of site management personnel;
- (xvii) attendance at site meetings;
- (xviii) set out and ongoing control of the set out of the dredge area and the Dredge Material Placement Area;
- (xix) the Principal will provide environmental monitoring (seagrass health and water quality) during dredging and disposal to ensure the required environmental standards are met. The Contractor is responsible for

- adjusting the dredging production rates/procedures as necessary to ensure the environmental requirements are met. Responsibility for meeting environmental requirements rests with the Contractor;
- (xx) provision of any topographic, and/or hydrographic surveys needed to progress and complete the Works;
 - (xxi) provision of transfers, office space and facilities, access and safety equipment for the Principal's Site Representative;
 - (xxii) provision and maintenance of all necessary security for the site (as applicable), equipment and materials;
 - (xxiii) regular cleaning of vessels to meet POMS quarantine procedures
 - (xxiv) clean-up of the site at the completion of the Works including the removal of any temporary facilities and the reinstatement and / or restoration of items not owned by the Contractor damaged by the Contractor in the performance of the Contractor's Activities.
 - (xxv) Supply of construction documentation, as built records, manuals, and associated data in a formal manner as outlined in the Technical Specification.

The scope of Works excludes:

- (i) water quality monitoring. This will be undertaken by the Principal in compliance with EPA conditions of approval and provided directly to the Contractor at no charge. This does not alter any of the Contractors obligations to comply with all relevant conditions, permits and licences associated with the Works;
- (ii) relocation of channel beacons; and
- (iii) installation and removal of temporary navigation buoys (other than required by the Contractor for execution of the Works).