

Consultative Community Meetings

March 2025



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Acknowledgement of Country

We acknowledge this land that we meet on today is the traditional lands for Kurna people and that we respect their spiritual relationship with their country. We also acknowledge the Kurna people as the custodians of the Adelaide region and that their cultural and heritage beliefs are still as important to the living Kurna people today.



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1. Welcome



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Agenda

1. Welcome
2. ABMRI Timeline
3. Sand replenishment program update
4. Dredging observations
5. What's next
6. Thank you and close



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Our interactions

- Respect each other – everyone has a right to an opinion
- Share the air – not everyone is loud and forthcoming
- Tackle problems not positions – look for compromise and collaboration
- Be sincere and succinct – allow time for the response



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Meeting purpose

The Central and Northern Beach Stakeholder Groups were established as a fixed-term non-statutory forum to enable dialogue and information exchange with community stakeholders and key interest groups regarding the Adelaide Beach Management Review implementation project.

Given the operational phase of the dredging trial has concluded, this final workshop aims to gather clear, concise feedback on the social implications and opportunities (inclusive of local scientific and technical knowledge and lived experience) you consider should be conveyed to Government regarding the future beach management for Adelaide's metropolitan beaches.



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2. ABMRI Timeline



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Timeline – Process up until now

Date	Activity
<i>April 2022</i>	South Australian Government announce Adelaide Beach Management Review
<i>November 2022</i>	Independent Advisory Panel appointed
<i>January-March 2023</i>	Bluecoast Scientific Review
<i>April – June 2023</i>	Adelaide Beach Management Review Engagement
<i>July – October 2023</i>	Shortlist sand management approaches and consultation
<i>December 2023</i>	Independent Advisory Panel recommendations to Government via Attorney-General
<i>May 2024</i>	State Government announcement of Adelaide Beach Management Review Implementation Program
<i>June 2024</i>	Commencement to procure dredging contractor
<i>September 2024</i>	Approval of Dredge Management Plan
<i>October – November 2024</i>	Operational component of dredging trial undertaken



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Timeline – Still to come

Date	Activity
<i>November – May 2025</i>	Monitoring, analysis and reporting
	Regulatory reporting (as per Dredge Management Plan): <ul style="list-style-type: none"> • Noise • Water Quality • Seagrass • Dredge Contractor ‘Completion of Works’ Report
	Coastal monitoring (ongoing): <ul style="list-style-type: none"> • Metocean (waves and currents) • Sand movement (bathymetry, aerial imagery, terrestrial survey, CoastSnap)
<i>April 2025</i>	Report review and internal approval process
<i>May 2025</i>	Report to Cabinet

3. Sand replenishment program update



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Sand replenishment

Semaphore South Replenishment

Source: Seagrass wrack from Glenelg and Semaphore South mixed with beach sand from the Semaphore breakwater

Key dates: Mobilisation 17 March, works commence 24 March until 11 April (start of school holidays)

Henley Beach South Replenishment

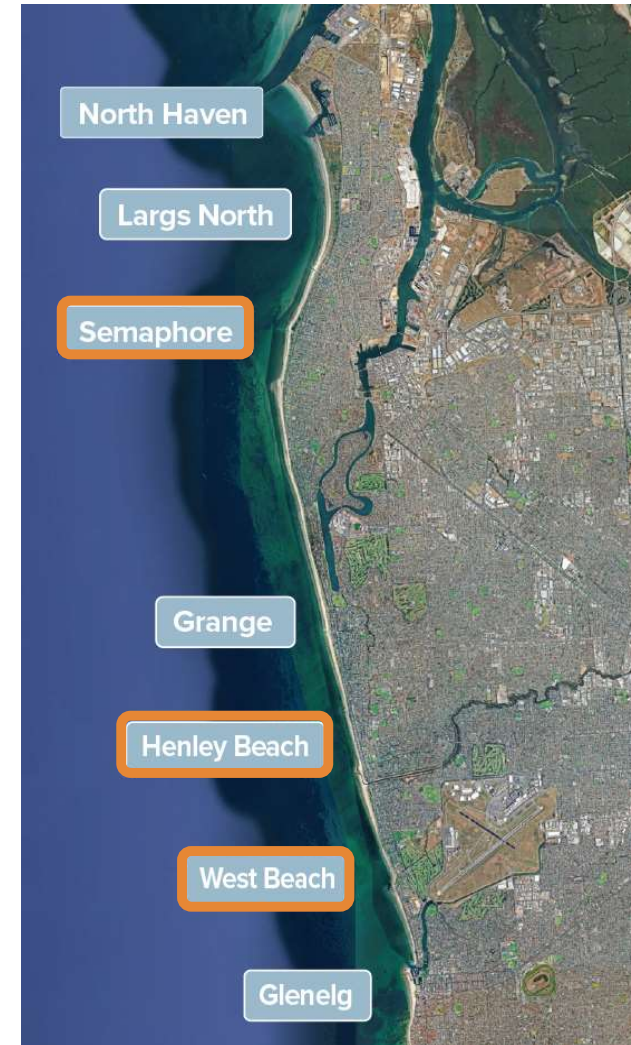
Source: Quarry sand

Key dates: 5 May 2025 – mid July 2025

West Beach Replenishment

Source: Quarry sand

Key dates: 24 February–June 2025 (no weekends, school holidays and public holidays)



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West Beach works

- On track to deliver 200,000m³ of quarry sand to West Beach in 2024/25
 - 100,000m³ delivered July-December 2024
 - Delivery of another 100,000m³ recommenced 24 February 2025
- 56,000m³ delivered as part of dredging trial
 - 16,000m³ from North Haven
 - 40,000m³ from West Beach Boat Harbour Sand Trap

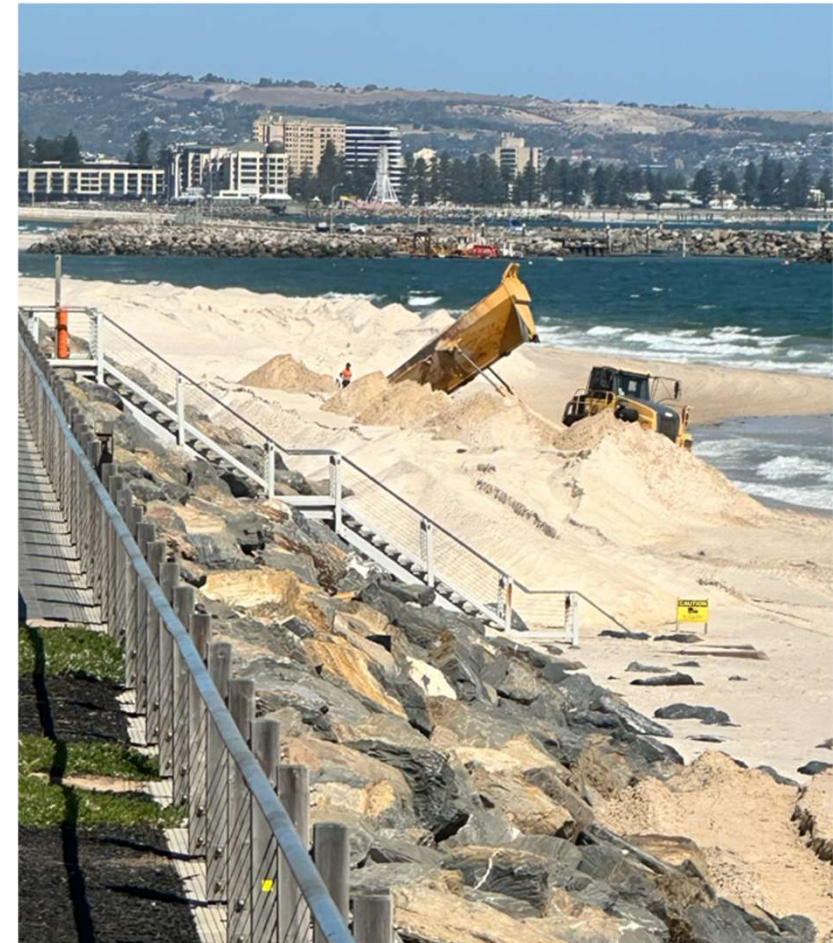


Photo credit: J Dundon



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4. Dredging update



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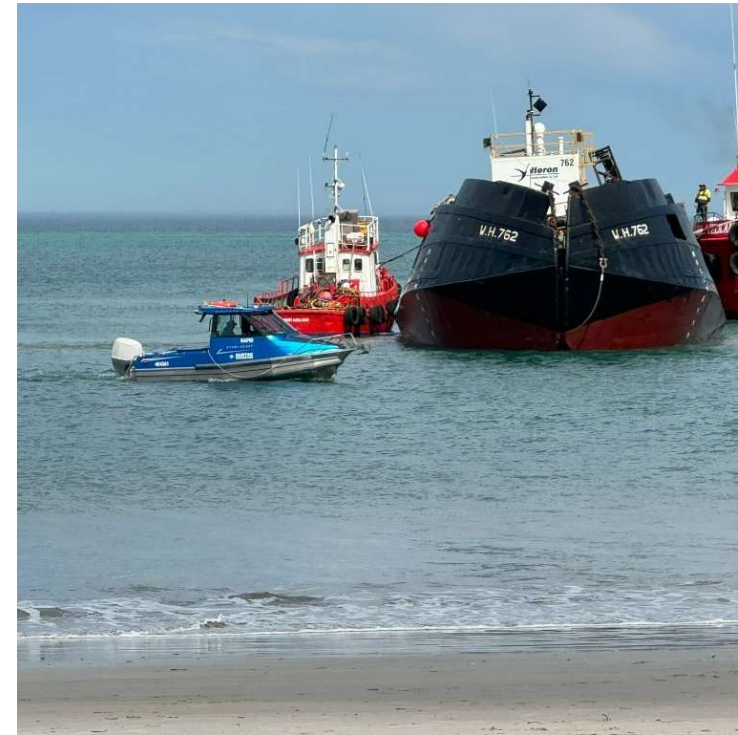
What we observed

- Dredging of sand did not cause exceedance of regulated turbidity levels at any point during operations
- Placement of dredged sand in the nearshore environment did not cause exceedance of regulated turbidity levels by either placement method trialled:
 - split hopper barge (direct bottom placement) and
 - pumping through a pipeline direct from a cutter suction dredge (pipeline diffuser)
- Barges can be used to transport sand
- Noise generated by dredging and placement of sand did not exceed regulated levels
- Weather limited Cutter Suction Dredge operations (due to swell) and barge manoeuvrability (due to wind)
- Dredging and barging sand avoided significant on beach disruption, but any coastal works in November are not ideal due to conflict with local coastal club operations

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Feasibility of dredging

- The ABMR Independent Advisory Panel recommended the Government undertake further investigations into the technical, operational and environmental feasibility of dredging to both:
 - 1) restore West Beach, and
 - 2) recycle sand within the beach system from areas of build-up to areas in need.
- An operational trial of dredging was undertaken, with ~60,000m³ of dredged sand added to West Beach from October – November 2024.
- Dredging is regulated by the Environment Protection Authority through a licence and an approved Dredge Management Plan.



ABMRI Independent Panel recommendations

1. Restore West Beach with external sand within 5 years

- 1.1 Investigate dredging using offshore sand, including verifying the availability of suitable sand source/s (volume, grain size and composition), assessment of environmental impacts, and viability of operations and approvals
- 1.2 Replenish West Beach with 550,000m³ of sand using quarry sand, or until restoration using an offshore sand source is found to be viable from an environmental, economic and social perspective.

2. Recycle sand between northern beaches and West Beach

- 2.1 Investigate the feasibility of dredging nearshore or nearby sand deposits as a long-term, sustainable method to deliver sand recycling. This should include verifying the availability of suitable sand in the littoral zone, as well as the operational viability and constraints for environmental approvals.
 - If viable, assess against sand recycling pipeline option to determine the best long-term, sustainable sand recycling option.
 - If not viable, seek relevant approvals to implement the sand recycling pipeline.
- 2.2 In the interim, implement sand recycling via sand carting using trucks to manage the build-up of sand at the northern beaches.

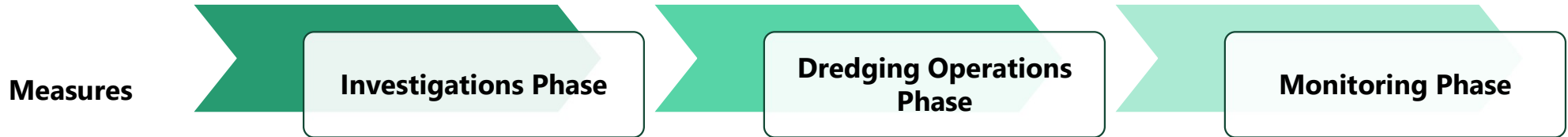
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Dredge Management Plan Investigations and Monitoring Requirements

Requirement	Pre-approval	Dredging operations	Post-dredging
Site characterisation	Benthic survey, sediment sampling and laboratory analysis to identify suitable sand source for nourishment (incl. tox screen)		
Noise	Establish background noise levels	Monitor borrow site and placement area	
Water Quality	Establish background water quality levels at borrow and placement areas to inform design of triggers for stop works	Real-time monitoring	
Seagrass	Establish background seagrass condition adjacent borrow and placement areas by diver (benthic survey, seagrass sampling) and drone (imagery)		Compare seagrass condition post-dredging (2 months and 12 months)
Marine mammals		Independent marine mammal observer during dredging at North Haven (due to proximity to Adelaide Dolphin Sanctuary)	

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ABMRI Dredge Trial Assessment



Sand borrow and placement areas	Monitor beach and seabed to measure sand volume and rate of change over time by integrated capture of dry, intertidal and active beach zones: <ul style="list-style-type: none">- Hydrographic survey (bathymetry)- Topographic survey (intertidal)- Aerial imagery (topographic photogrammetry)
Weather and sea conditions	Monitor wind, waves and currents to inform coastal process assessments: <ul style="list-style-type: none">- In situ oceanographic instruments (Wave Buoys and Acoustic Doppler Current Profilers)- BoM
CoastSnap	Citizen science initiative to monitor change in the shoreline: <ul style="list-style-type: none">- 3x CoastSnap stations installed at West Beach and Henley Beach
Dredge Operations	Operational logs <ul style="list-style-type: none">- production (loads, timing)- regulatory compliance (noise, turbidity)- downtime (weather, mechanical)- safety (incident type, magnitude)



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5. What's next?



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Timeline from here

**November 2024 –
May 2025**

Gathering the data (monitoring)
analysis and reporting)



April 2025

Report collation and internal
approval process

May 2025

Report to state government for
Cabinet



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Thank you & close



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Community Engagement

- The Central and Northern Beach Stakeholder Groups were established as a fixed-term non-statutory forum to enable dialogue and information exchange with community stakeholders and key interest groups regarding the Adelaide Beach Management Review Implementation project.
- Once a decision is made as to the future beach management strategy, a new engagement approach will be developed.



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