

TWEED SAND BYPASSING

MEETING DETAILS	
Meeting Title:	Tweed Sand Bypass Advisory Committee (AC)
Meeting No.:	02-2023
Date / Time:	5:00pm (Qld) 17 May 2023
Location:	Kirra Hill Community Centre + MS Teams
Attendees:	Matthew Harry – A/Project Manager (MS Teams) Adrian Barwick – NSW State AC member Celine Roux – Qld Project Director (MS Teams) Kim Bowra – A/NSW Project Director Linda Rijkenberg – Qld State AC member (MS Teams) Wayne Bartholomew – Qld AC member Peter Turner – Qld AC Member Larry Woodland – NSW AC Member (Proxy for Robert Alexander) Jane Lofthouse – NSW LGA AC Member John Ede – NSW AC Member Councillor Gail O'Neill – QLD LGA AC Member Joshua Taylor - NSW team member Robert Budd (observer)
Absent / Apologies:	Apologies: Nil
Minutes Prepared By:	J. Taylor
WBS:	M.07

AGENDA				
Item	Description	Start	Finish	Duration
1	Welcome and apologies	5.00	5.05	5 mins
2	Community beach and entrance reports / AC member reports	5.05	5.15	10 mins
3	Project monitoring and operational overview <ul style="list-style-type: none"> Sand bypassing system operations + delivery program Environmental monitoring Entrance conditions, usage and survey Projects and enhancements Communications 	5.15	6.00	45 mins
4	Committee Comments / General Business (All)	6.00	6.30	30 mins

TWEED SAND BYPASSING

MEETING MINUTES	
Item:	Description
1.	<p><u>Introductions and AC updates</u></p> <p>Noted that Mr Budd attended on the understanding of the meeting being open to the public. KB advised that AC meetings are not open to non-members, with focus groups being established with various community representatives in lieu of former ACC meetings. There was agreement from PDs that Mr Budd could remain at the meeting as an observer on this occasion.</p>
2.	<p><u>Advisory Committee member reports</u></p> <p>Peter Turner – Qld AC member</p> <ul style="list-style-type: none"> • Lots of sand observed at Rainbow Bay. • Good surf conditions. <p>John Ede – NSW AC Member</p> <ul style="list-style-type: none"> • Reported incident of boat overturning at Tweed Entrance. • Noted poor condition of entrance. • Welcomed commencement of dredging. <p>Larry Woodland – NSW AC Member (Proxy for Robert Alexander)</p> <ul style="list-style-type: none"> • Erosion observed in front of Fingal SLSC with many rocks visible. • Following recent swell, sand has been transported to the southern corner of Fingal from Dreamtime. <p>Cr Gail O'Neill – QLD LGA AC Member</p> <ul style="list-style-type: none"> • Mention of fatality at Froggies beach. City Lifeguards placed temporary signs at warning of unsuitable swimming environment. • Friends of Rainbow Bay and petition from Mr Allsop discussed. CoGC is preparing formal response to Council. • Observed erosion at Kirra in front of SLSC, CoGC carrying out sand scraping / profiling works to minimise scarping. <p>Jane Lofthouse – NSW LGA AC Member</p> <ul style="list-style-type: none"> • TSC awarded Coastal Zone Management Plan contract to Bluecoast consultants. • Management of Duranbah foreshore and installation of removable bollards discussed. <p>Wayne Bartholomew – Qld AC member</p> <ul style="list-style-type: none"> • Great surf conditions observed since last AC. • WSL event considered successful. <p>VMR via email read by AB</p> <ul style="list-style-type: none"> • Surf has been large more than often. • Decrease in trawlers going out in the last three months due to dangerous bar. • Recreational boat usage and has been very quiet due to southerly winds over the last three months.

TWEEDSAND BYPASSING

MEETING MINUTES	
Item:	Description
3.	<u>Project overview</u> Presentation attached.
4.	<u>General Business</u> No items raised.
	Meeting end: 6:30pm
	Next meeting: 23 August 2023

TWEED SAND BYPASSING

ADVISORY COMMITTEE MEETING

17 May 2023

PROJECT MONITORING AND OPERATIONAL OVERVIEW

- Pumping operations
- Environmental Monitoring / beach observations
- Entrance conditions, usage and survey
- TSB projects and enhancements
- Communications



PUMPING OPERATIONS 2023

PUMPING BY JETTY MOUNTED SYSTEM 2023

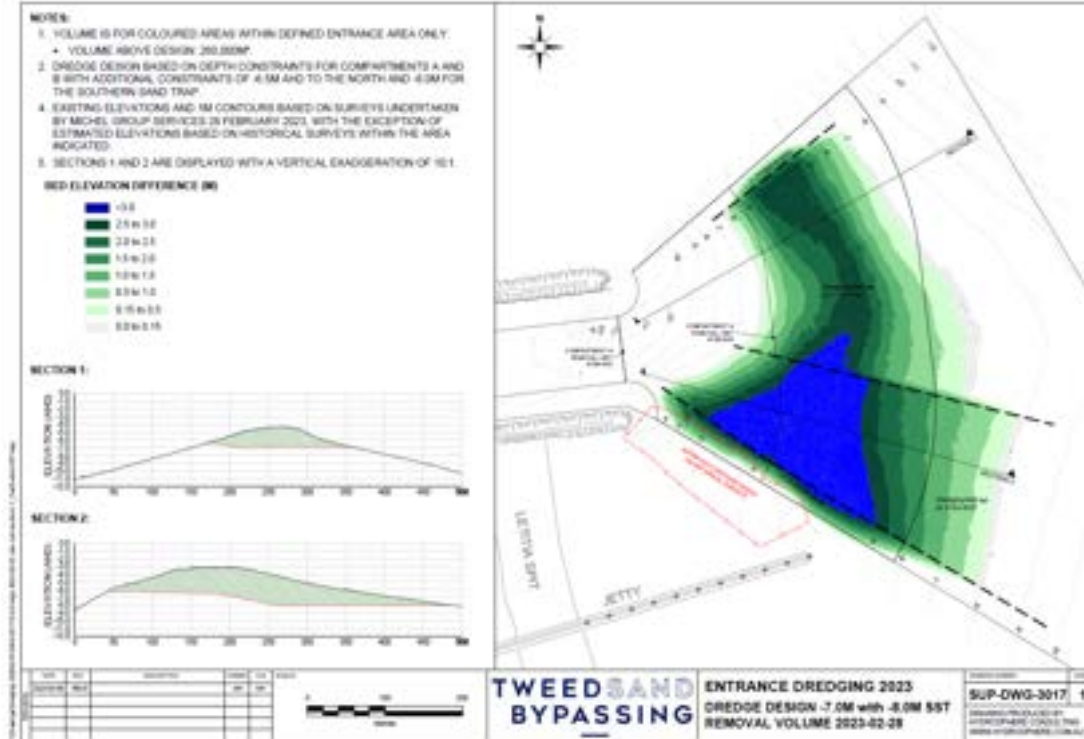
MONTH	Vol SRE (m3)	Vol D'Bah (m3)	Total Vol (m3)	5 Yr AVG (m3)
JAN	48,339	0	48,339	32,712
FEB	41,601	0	41,601	45,401
MAR	22,898	0	22,898	38,229
APR	98,757	0	98,757	34,569
MAY			0	49,844
JUN			0	38,920
JUL			0	42,051
AUG			0	27,248
SEP			0	31,027
OCT			0	34,389
NOV			0	19,699
DEC			0	41,258
TOTAL	211,595	0	211,595	435,347



5 yr (2018-22) Avg Vol - Jan to Apr = 150,911m3
 Act Vol - Jan to Apr 2023 = 211,595m3

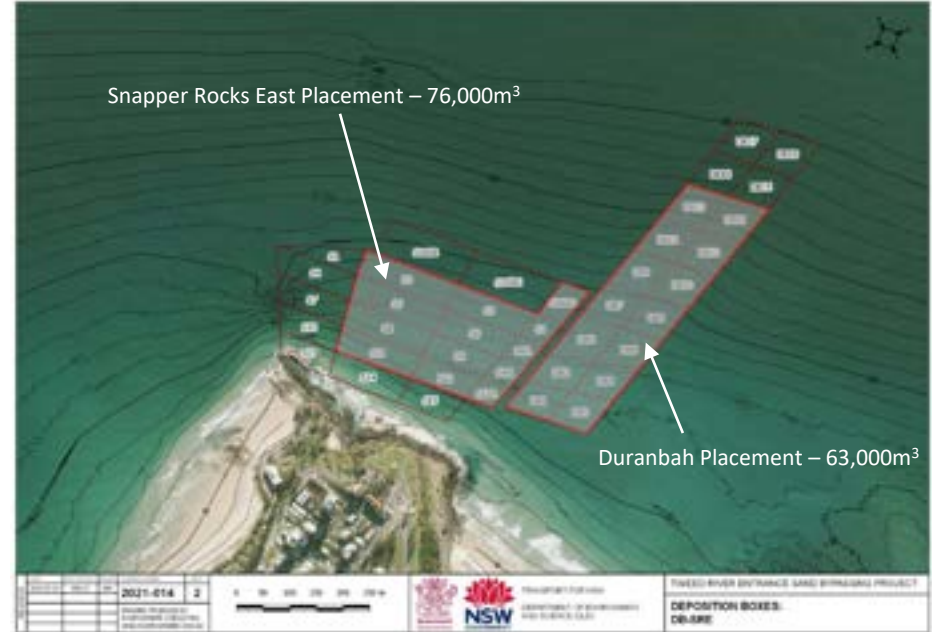
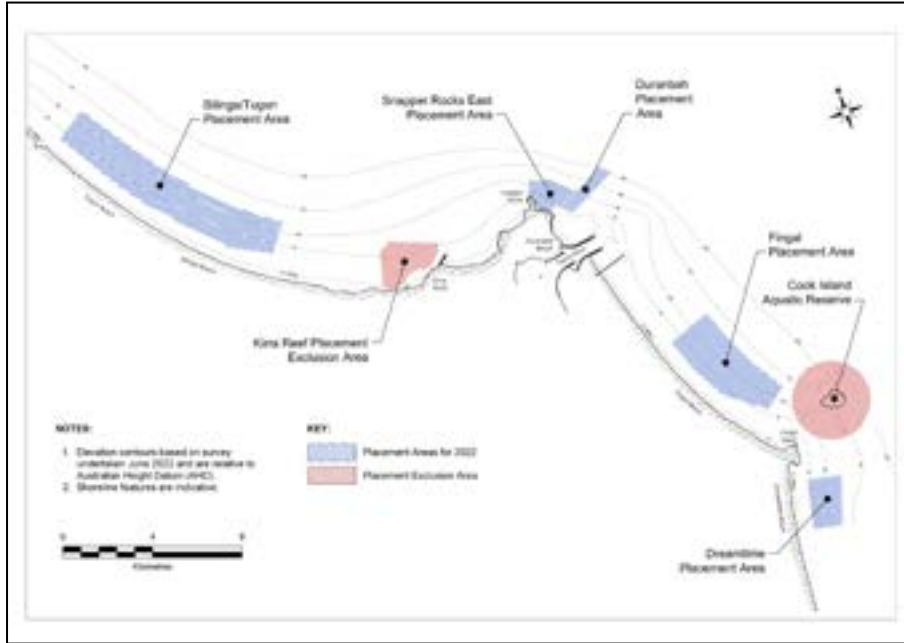
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2023 DREDGING - REMOVAL



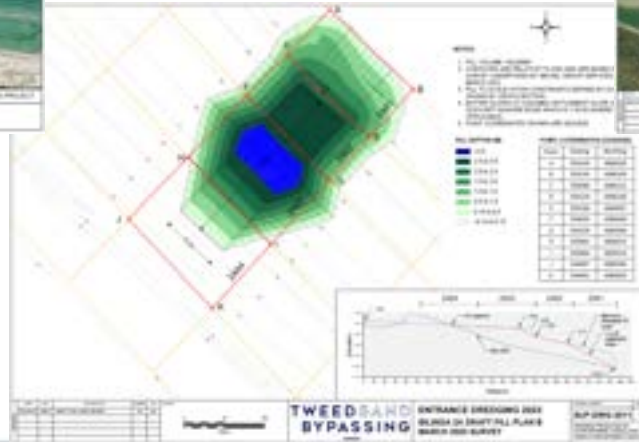
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2023 DREDGING - PLACEMENT



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2023 DREDGING - PLACEMENT



ENVIRONMENTAL MONITORING / BEACH OBSERVATIONS

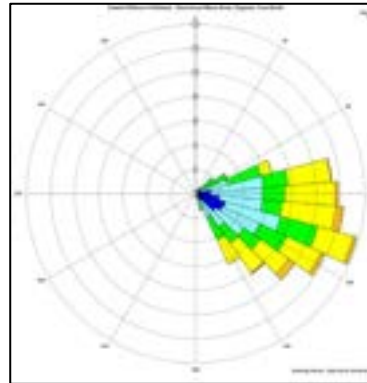


ENVIRONMENTAL MONITORING / BEACH OBSERVATIONS

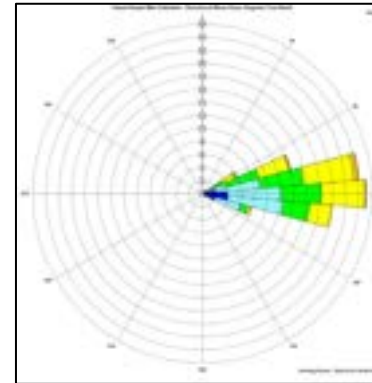


**Tweed wave buoy
(nearshore)**

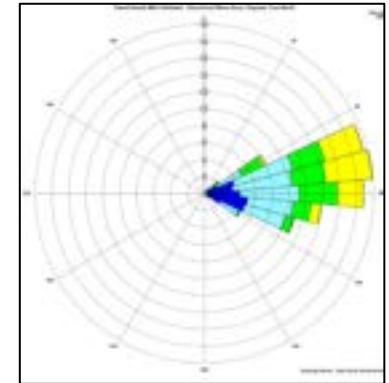
**Tweed offshore
wave buoy**



2023 Feb – 2023 Apr
Offshore

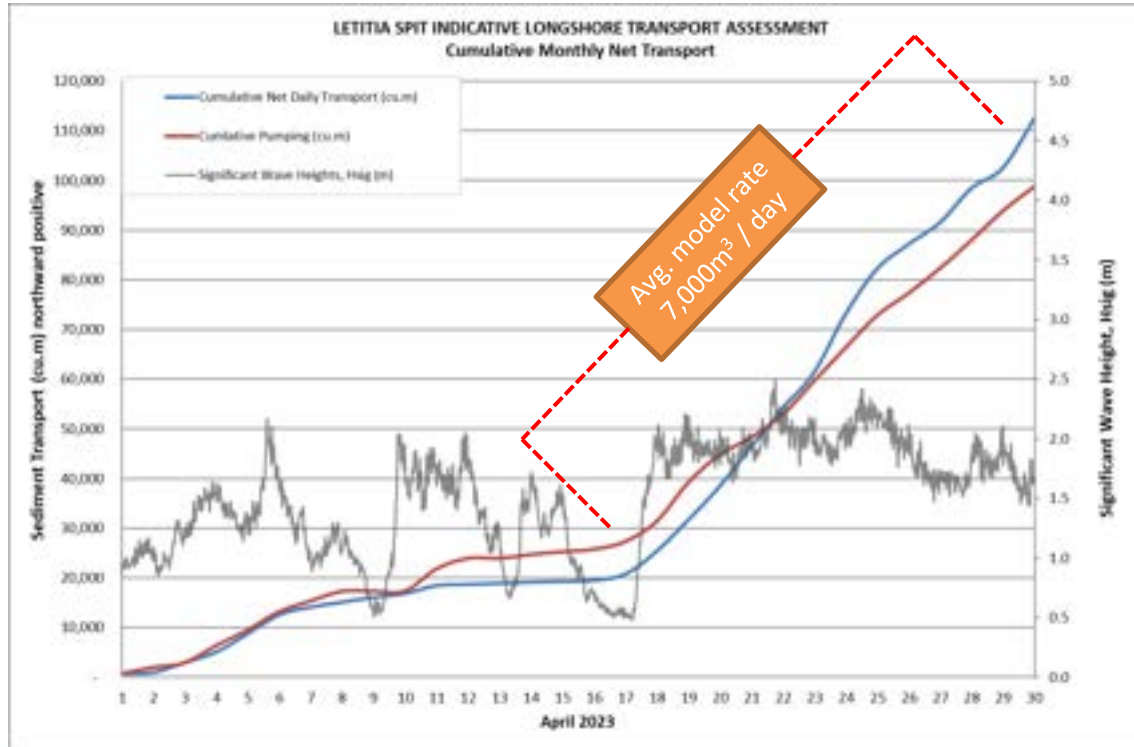


2022 Feb – 2022 Apr



2023 Feb – 2023 Apr

APRIL PUMPING VS ESTIMATED TRANSPORT VOLUMES



RECENT SATELLITE IMAGERY COMPARISON

- Storm bar formed from TC Gabrielle in Feb migrated shoreward through March / early April.
- Consistently energetic conditions through late April appeared to push sand into Rainbow Bay compartment as well as increase the crest height of the entrance bar



TWEED SAND BYPASSING



7 July 2022



19 January 2023

FINGAL



15 October 2022



11 April 2023

TWEED SAND BYPASSING



15 October 2022



19 January 2023



11 April 2023



LETITIA

TWEED SAND BYPASSING



15 October 2022



19 January 2023



11 April 2023



DURANBAH BEACH

TWEED SAND BYPASSING



15 October 2022



11 April 2023

SNAPPER ROCKS RAINBOW BAY



19 January 2023

TWEED SAND BYPASSING

COOLANGATTA

15 October 2022

19 January 2023

11 April 2023

TWEED SAND BYPASSING



15 October 2022



19 January 2023

11 April 2023



KIRRA

TWEED SAND BYPASSING



15 October 2022



19 January 2023



11 April 2023

BILINGA

TWEED SAND BYPASSING



11 April 2023

TWEED SAND BYPASSING

SURF CONDITIONS



April 2023– Snapper Rocks



TWEED SAND BYPASSING

Kirra – 29 April 2023



Duranbah – 2 May 2023



SURF CONDITIONS

Kirra – 29 April 2023



Duranbah – 15 April 2023



ENTRANCE CONDITIONS, USAGE AND SURVEY

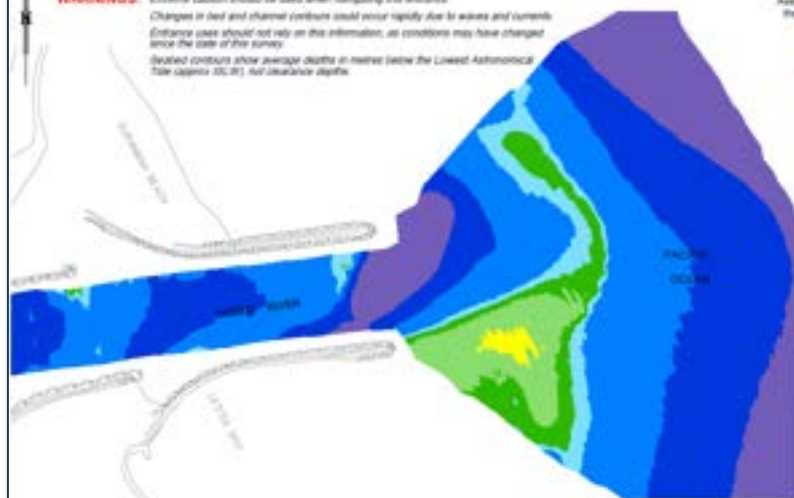
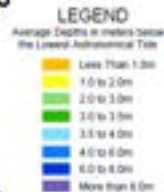


TWEED SAND BYPASSING

TWEED RIVER ENTRANCE AS AT 27th JANUARY 2023

WARNINGS: Extreme caution should be used when navigating the entrance. Changes in bed and channel contours could occur rapidly due to waves and currents. Entrance users should not rely on this information, as conditions may have changed since the date of this survey.

Isobath contours show average depths in metres below the Lowest Astronomical Tide (approx 10.85), not clearance depths.



TWEED SAND BYPASSING

Tweed Sand Bypassing is a joint project of the New South Wales and Queensland Governments, with the support of the Gold Coast City Council, and in consultation with Tweed Shire Council.



NOTES:

1. Survey information collected by Marine Group Services on 27th January 2023.
2. This plan prepared by Marine Group Services on 1st February 2023.
3. Surveys are undertaken for Tweed Sand Bypassing every three months to monitor entrance sand levels.



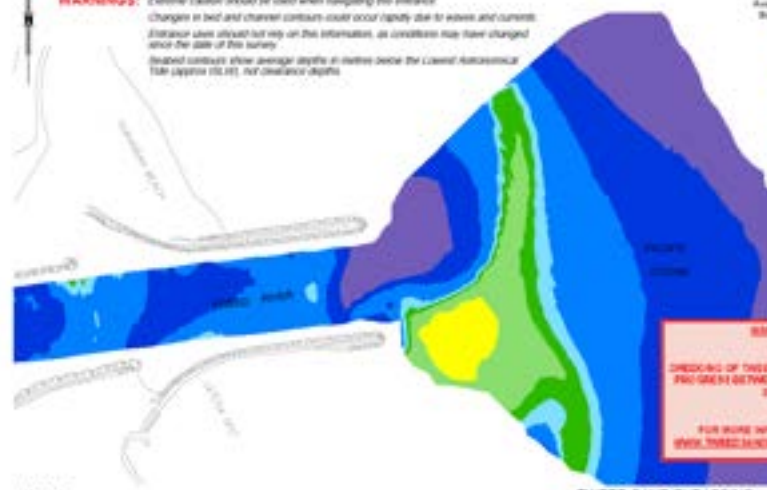
Transport
for NSW



TWEED RIVER ENTRANCE AS AT 4th MAY 2023

WARNINGS: Extreme caution should be used when navigating the entrance. Changes in bed and channel contours could occur rapidly due to waves and currents. Entrance users should not rely on this information, as conditions may have changed since the date of this survey.

Isobath contours show average depths in metres below the Lowest Astronomical Tide (approx 10.85), not clearance depths.



WARNING

CHECKING OF TWEED RIVER ENTRANCE IN PROGRESS BETWEEN MAY AND AUGUST 2023.

FOR MORE INFORMATION VISIT
WWW.TWEEDSANDBYPASSING.NSW.GOV.AU

NOTES:

1. Survey information collected by Marine Group Services on 04th May 2023.
2. This plan prepared by Marine Group Services on 06th May 2023.
3. Surveys are undertaken for Tweed Sand Bypassing every three months to monitor entrance sand levels.



Transport
for NSW



TWEED SAND BYPASSING

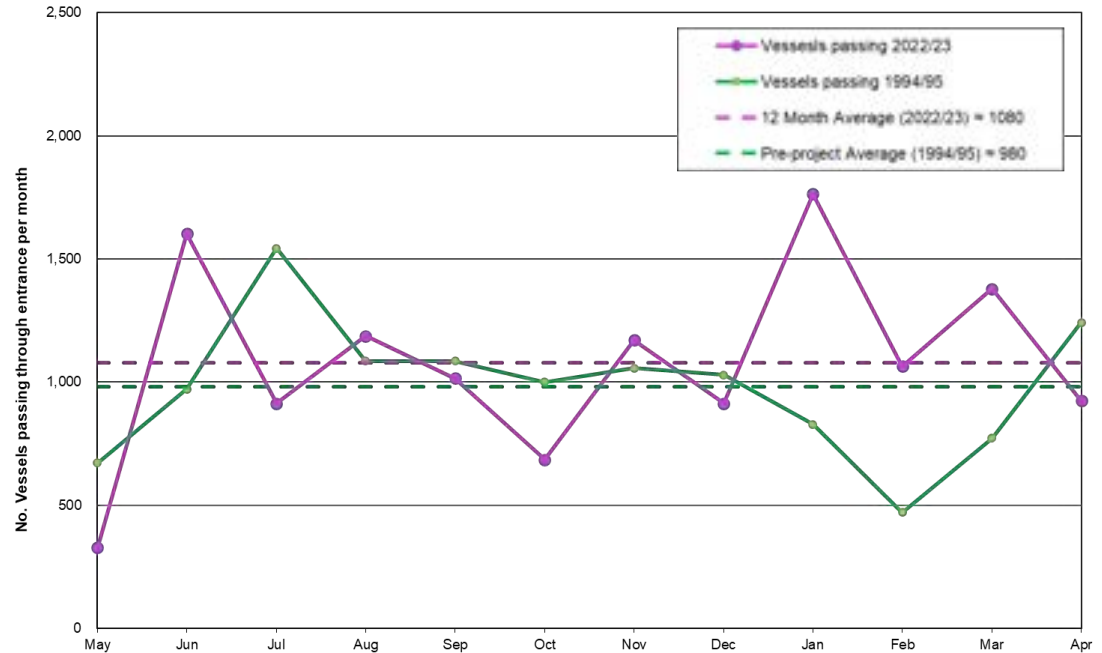
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ENTRANCE USAGE

- Early 2023 vessel passing numbers were above average due to periods of calmer weather
- April saw vessel passing numbers below the pre-project average. In the last two weeks of the month the increasing swell conditions meant vessel movement through the entrance was limited

Comparison of vessels passing through the entrance per month in 2022/23 compared to 1994/95 (prior to entrance improvements)



PROJECTS AND ENHANCEMENTS

TSB Transition

Drafting of Management System, ICT preparations, legal instruments, property matters and asset handover, Operations Manager recruitment for October 2023.

New survey contract prep

Evaluation of RFQ underway for multi year survey contract. New contract to commence July 2023.

Asset valuation

Nearing completion. To be used for financial and asset management purposes.

Reef Monitoring

Kirra and Cook Island reef monitoring due for completion by end of June 2023.

Kirra Amenity Study

Assessment of Kirra Amenity including surf amenity and future predictions. Bluecoast Consulting undertaking assessment. Data sourcing underway through TSB and City of Gold Coast.

Cathodic Protection Investigation

Contract has been awarded and work has commenced to investigate effectiveness and possible improvements to the cathodic protection system.

COMMUNICATIONS AND ENGAGEMENT

New signage underway at Dry Dock Rd boat ramp + refresh of existing signs

Focus groups – Friends of Rainbow Bay and associated community members

Sanctuary Cove boat show – pamphlets and banners

WSL – Snapper Rocks information stand

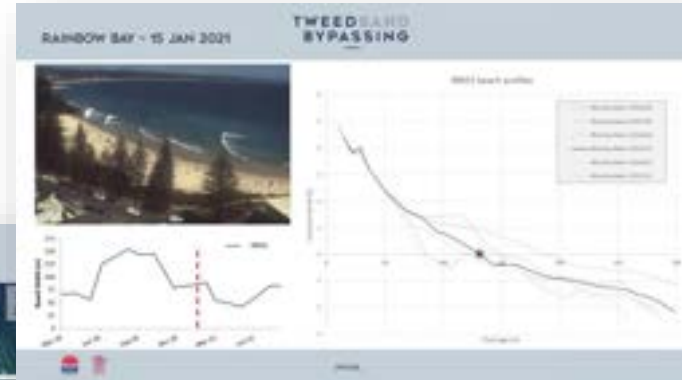
Preparation of a paper for the Australasian Coasts and Ports conference – Sunshine Coast 2023



FRIENDS OF RAINBOW BAY

Focus group session provided information about observations and data describing the changes in beach amenity at Rainbow Bay

Historical imagery comparisons, surveyed beach profile data, and the influence of TSB operations to overall sand supply were detailed



TWEED SAND BYPASSING

THANK YOU

- TSB is a joint coastal management initiative of the New South Wales and Queensland State Governments
- Please provide any feedback to the TSB Project Office email tresbp.projectoffice.group@transport.nsw.gov.au