

MEETING DETAILS	
Meeting Title:	Tweed Sand Bypass Advisory Committee (AC)
Meeting No.:	04-2023
Date / Time:	5:00pm (EST) 15 November 2023
Location:	Tweed Sand Bypass Office
Attendees:	Peter Turner – Qld AC Member Bruce Lee – Proxy for Qld AC member Wayne Bartholomew Jane Lofthouse – NSW LGA AC Member Tony Johansson – NSW Project Director (Chair) Kim Bowra – Project Manager Celine Roux – Qld Project Director (via MS Teams) Adrian Barwick – NSW team member Joshua Taylor - NSW State AC member
Absent / Apologies:	Councillor Gail O'Neill – QLD LGA AC Member Larry Woodland - Proxy for NSW AC member Robert Alexander Darren Hulm - NSW AC member Wayne Bartholomew – Qld AC member Linda Rijkenberg – Qld State AC member
Meeting notes prepared by:	J. Taylor
File Path:	M.07.01

AGENDA					
Item	Description	Start	Finish	Duration	
1	Introduction and AC updates.	5.00	5.05	5 mins	
2	AC member and community reports		5.15	10 mins	
3	Project monitoring and operational overview	5.15	6.00	45 mins	
4	Committee Comments / General Business (All)	6.00	6.30	30 mins	

Meeting Minutes 1/3



MEET	ING MINUTES					
Item:	Description					
1.	Introductions and AC updates					
	KB informed the group that Adrian Barwick's membership as NSW State AC Member has come to an end after two years in the role. KB acknowledged AB's contribution as an AC member.					
	The process is underway to appoint the following people to vacant AC positions: • Darren Hulm - NSW AC member • Joshua Taylor - NSW State AC member					
2.	Advisory Committee member and community reports					
	 Jane Lofthouse – NSW LGA AC Member Works on the Tweed Coast Coastal Management Plan is currently being caried out by TSC. The CMP is currently at the hazard study stage. TSB can be given the opportunity to review the Tweed Coast hazard study when available. 					
	Bruce Lee – proxy for Qld AC member Wayne Bartholomew The last few months have seen good surf amenity at Duranbah. There has also been good surf from Point Danger to Frog Beach Coolangatta points are in good shape producing good surf. There is a lot of sand at Rainbow Bay due to recent ocean conditions. Lifeguards are managing swimming areas at low tide. Swimming at high tide is okay. Conditions at Kirra beach have been great for swimming.					
	 Peter Turner – Qld AC member There has been good surf at Snapper Rocks and Rainbow Bay. Equally good but different at Duranbah. Surf has been very popular. Northeast winds have been observed which is typical for this time of year. Usually by February / March offshore winds will be more prevalent. Lots of sand on beaches, which is far better than not enough. A member of Friends of Rainbow Bay has been in contact with PT. PT is providing information where possible. Coolangatta Gold surf carnival was held recently. PT advised the coastal situation is much better than used to be before the TSB project. In the past there has been no beach. Economically this is not a good outcome and sand is an important link in that chain. There has been some curiosity amongst the public about why the recent dredge campaign deposited sand to Surf St, Bilinga. Once they have been informed about innovative sand placement designs people are very appreciative. It is well accepted by the community that the TSB project is not all about navigation but the team actively looks to improve amenity. PT advised that northerly winds impact not just surf but diving and boating, which shows in lower-than-average recoded boating numbers. 					

Meeting Minutes 2 / 3



MEET	MEETING MINUTES					
Item:	Description					
	In the past, trawlers would avoid returning through the entrance on an ebb tide. Now they utilise the entrance in a wider variety of conditions.					
	 Councillor Gail O'Neill – QLD LGA AC Member (relayed by Adrian Barwick) The Rainbow Bay petition, the review by Council staff and endorsement of the review by Council was discussed. All AC members present agreed with the Council endorsed review. The bank stabilisation project at Kirra Hill is underway. There has been some retreat of the shoreline position at Kirra adjacent to the SLSC. 					
	Chris @ Ocean Dive report (read by AB) • Since the last run of the dredge the bar has been quite good, there seems to be a distinct channel at the moment probably the best it's been in 10 years.					
	VMR (read by AB)					
	 August, September and October proved to be a fairly quiet couple of months in the radio room at Point Danger. Wave size was generally relatively good for bar crossings, but the windy weather was the main contributor to the months being less busy. Point Danger logged on Bar Trips were down by a considerable amount compared to the previous months. The Radio operators responded to six incidents during October all of which achieved a successful result with no injuries or property damage. With the deeper water on the bar and river mouth after sand dredging, crossing is now relatively safe. The weather conditions during the months of September and particularly October really tested the patience of those in the radio room, with little to do on some days. In fact there were a couple of days where no boats were recorded on Seahawk, or observed crossing the bar. These types of months won't last, and as we draw closer to the Christmas holidays we can expect to become increasingly busy. 					
3.	Project monitoring and operational overview					
	Presentation attached.					
4.	Committee Comments / General Business					
	 The condition of Letitia Rd (access to TSB jetty compound) was discussed. TSB are seeking endorsement from Tweed Byron Local Aboriginal Land Council to approach TSC to request road is added to a road sealing program. This is after a number of safety and access issues have been reported by the TSB operator and observed by TSB team. 					
	Meeting end: 7:40pm					
	Next meeting: February 2024 (TBC)					

Meeting Minutes 3 / 3

Advisory Committee Meeting

15 November 2023

Project monitoring and operational overview

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





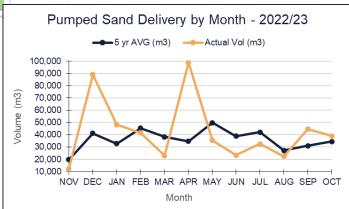
PUMPING BY JETTY MOUNTED SYSTEM 2023					
MONTH	Vol SRE (m3)	Vol D'Bah (m3)	Total Vol (m3)	5 Yr AVG (m3)	
JAN	48,339	0	48,339	32,712	
FEB	41,601	0	41,601	45,401	
MAR	22,898	0	22,898	38,229	
APR	98,757	0	98,757	34,569	
MAY	35,478	0	35,478	49,844	
JUN	23,324	0	23,324	38,920	
JUL	32,493	0	32,493	42,051	
AUG	22,418	0	22,418	27,248	
SEP	44,687	0	44,687	31,027	
OCT	39,147	0	39,147	34,389	
NOV			0	19,699	
DEC			0	41,258	
TOTAL	409,142	0	409,142	435,347	

Comparison of Monthly Pumping vs Estimated Sand Transport

140,000

12mth Sand pumped to date 510,354m3
12mth Estimated Sand Transport to date 530,436m3
12mth Estimated Sand Transport to date 530,436m3
12mth Estimated Sand Transport to date 530,436m3
120,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100,000
100

Pumping operations 2023



Natural Sand

5 yr (2018-22) Avg Vol Jan to Oct = 374,390m3

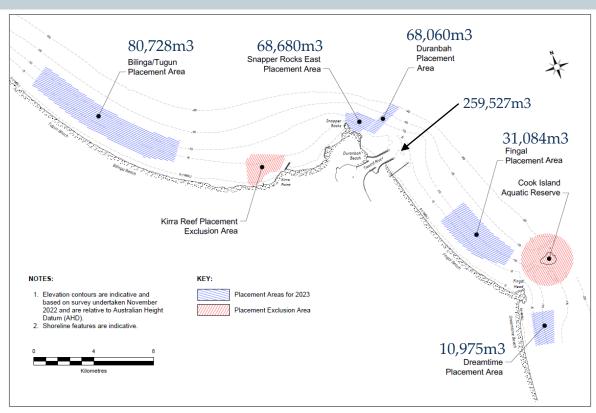
<u>Act</u> Vol Jan to Oct = 409,142m3





2023 Dredging

SAND DELIVERY BY DREDGE 2023						
MONTH	Duranbah	SRE	Fingal	Dreamti me	Bilinga	Total Vol (m3)
JAN						0
FEB						0
MAR						0
APR						0
MAY	55,936					55,936
JUN	12,124	59,722	31,084		40,898	143,828
JUL						0
AUG						0
SEP		8,958		10,739	30,807	50,504
OCT				236	9,023	9,259
NOV						0
DEC						0
TOTAL	68,060	68,680	31,084	10,975	80,728	259,527







2023 Dredge Removal







2023 Dredge Placement

DEPOSITION BOXES:

Bilinga 39,830m3 **Snapper Rocks** 8,958m3

Dreamtime 10,975m3

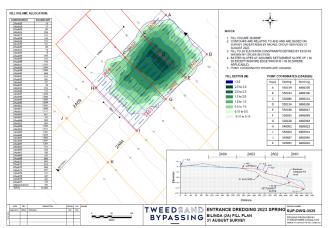






DEPOSITION BOXES:

2023 Dredge placement – Bilinga

















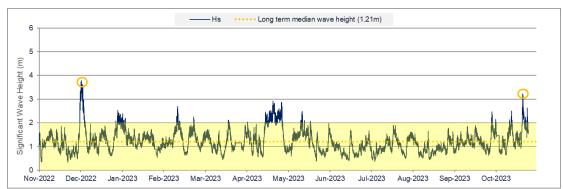
Environmental Monitoring / beach observations



2021-22 Estimated transport 690,000 m³

2022-23 Estimated transport 530,000 m³

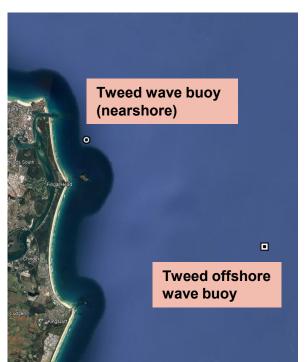
Overall, it has been a relatively low energy period even considering the record high transport rates in April

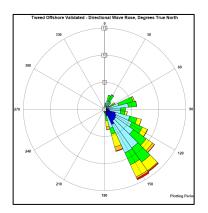




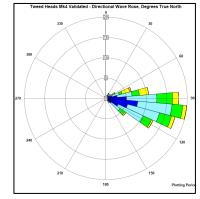


Environmental Monitoring / beach observations

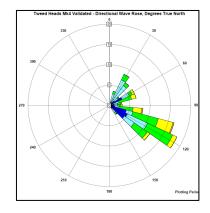




2023 Aug – 2023 Oct Offshore



2022 Aug – 2022 Oct



2023 Aug – 2023 Oct





Recent conditions

August - Ongoing mild conditions ensured that no significant changes to the beaches were observed. Sand in the swash zone migrated slowly around Greenmount headland however Rainbow Bay remained relatively wide

September – All beaches held up well under mild northerly conditions. Note that the majority of dredging for the year was complete by the end of September and resulted in consistently favourable conditions for boat users

October - October saw variable conditions throughout the month with SE and NE swell directions and moderate wave heights. The sediment transport rate was also relatively high compared to the October average. The NE conditions moved sand from out from the Rainbow Bay beach compartment, around Greenmount, and through to Coolangatta beach which is now relatively wide











Duranbah 30th September



Fingal 13th September



Rainbow Bay 21st October







Fingal



19 January 2022



11 April 2023



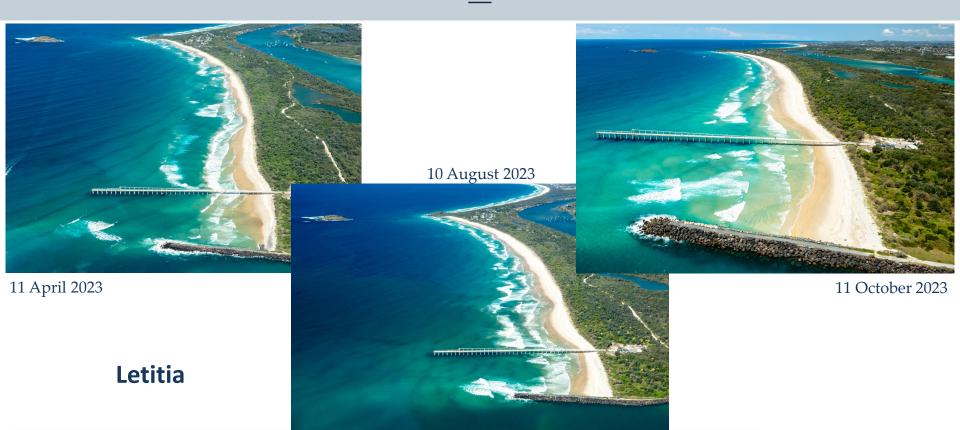




10 August 2023









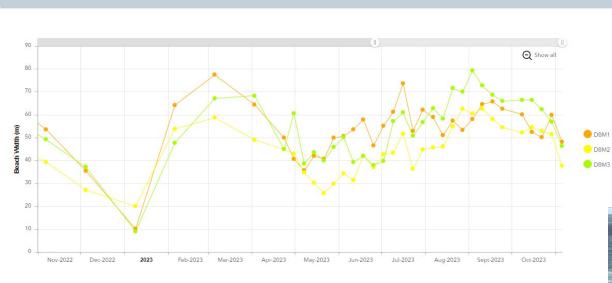


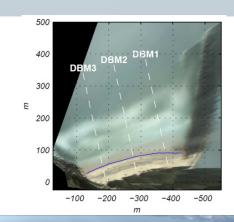


Duranbah Beach











Duranbah Beach









11 April 2023

Snapper Rocks Rainbow Bay

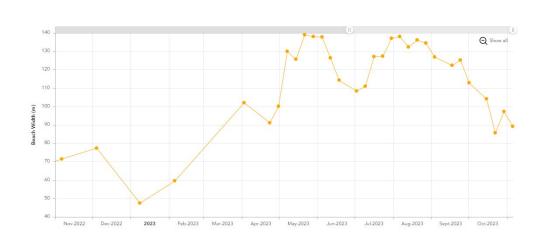


10 August 2023

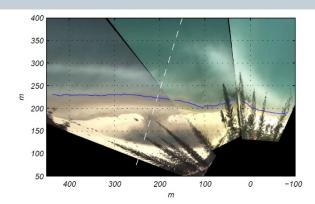




11 October 2023



Rainbow Bay











Coolangatta

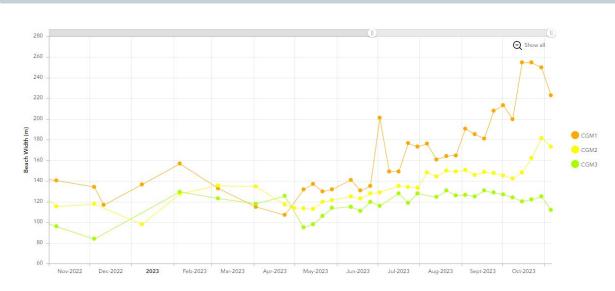
11 April 2023

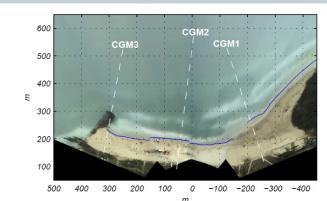
10 August 2023

11 October 2023











Coolangatta





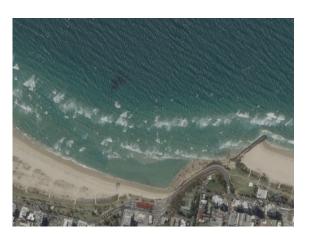




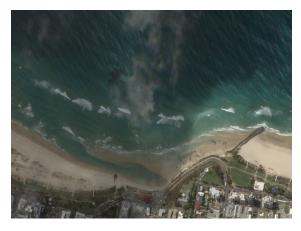












11 November 2023



Key observations:

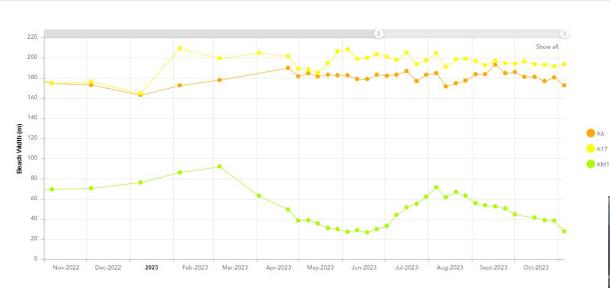
- Beach profile has migrated shoreward leading to a reduced upper beach width but also a closer nearshore shoal
- Conditions in late October have resulted in additional sand movement around Kirra groyne
- Lagoon like formation at Kirra is providing for favourable swimming amenity

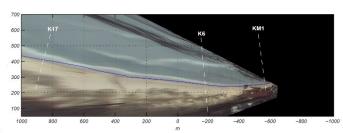
Kirra













Kirra









Bilinga





11 October 2023





SURFONMARS 18 September 2023 – Duranbah

SURFONMARS

Surf Conditions









Surf Conditions



17 September 2023 – Duranbah





Surf Conditions





Rainbow – 28 October 2023



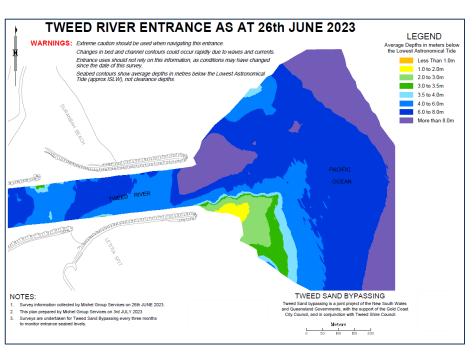
Entrance conditions, usage and survey

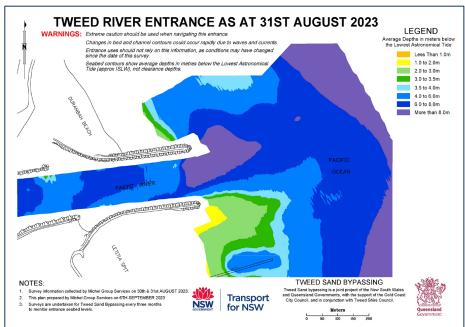










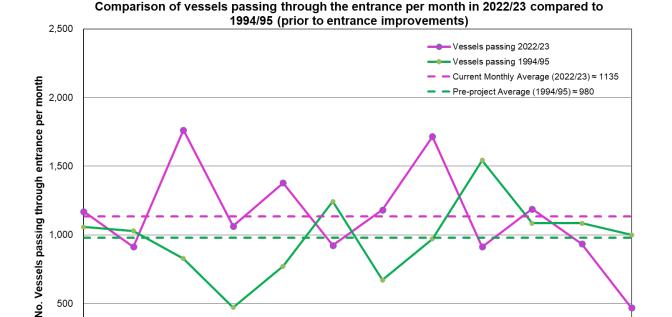






Entrance usage

- 2023 vessel passing numbers are above average due to periods of calmer weather
- P Entrance conditions in recent months have been good, however unfavourable winds have resulted in lower-than-expected vessel passing numbers



Apr

May





Oct

Sep

Aug

Jul

Jun

Jan

Feb

Mar

Nov

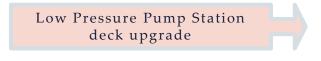
Dec



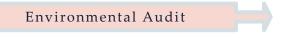
Projects and enhancements

TSB Transition

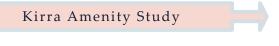
Continued drafting of Management System. ICT preparations (SCADA and network). Intergovernmental Agreement for Management, Operations, Maintenance and repair of TSB. Property matters and asset handover. Operations Manager recruitment.



Replacement of timber deck with steel support structure and GRP deck.



Environmental Audit of TSB environmental Management System to commence in November.



Draft report to be completed early December 2023.



Scope preparation underway.



Survey completed of existing pipeline and infrastructure.







Communications and engagement

New Annual Report produced for Contract Year 22

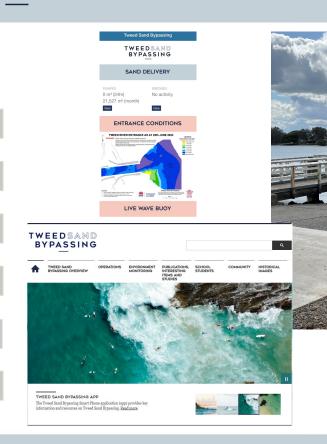
Dredging Instagram, App and website updates

Jetty Tours – Merrimac Highschool and Booningyah Junior Rangers

Channel 7 Gold Coast News – Rainbow Bay conditions

Proposed new sign at Tweed marina

Presentation of a paper at the Australasian Coasts and Ports conference – Sunshine Coast 15-18 August 2023







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