

MEETING DETAILS			
Meeting Title:	Tweed Sand Bypass Advisory Committee (AC)		
Meeting No.:	04-2022		
Date / Time:	5:00pm (Qld) 16 November 2022		
Location:	Kirra Hill Community Centre		
Attendees:	Kane Nielsen – A/QLD AC Member Anthony Johansson – NSW AC Member Adrian Barwick – NSW AC Member John Ede – NSW AC Member Wayne Bartholomew – Qld AC member Peter Turner – Qld AC Member Kim Bowra Bruce Harper Bruce Lee		
Absent / Apologies:	Apologies: Jane Lofthouse – NSW AC Member Councillor Gail O'Neill – QLD AC Member		
Minutes Prepared By:	A. Barwick		
WBS:	M.07		

AGENDA					
Item	Description	Start	Finish	Duration	
1	Welcome and apologies				
2	Community beach and entrance reports / AC member reports				
3	Project monitoring and operational overview Sand bypassing system operations + delivery program Environmental monitoring Entrance conditions, usage and survey Projects and enhancements Communications 				
4	Committee Comments / Questions (All)				

Meeting Minutes 1/2



MEETING MINUTES					
Item:	Description				
1.	Introductions and AC updates				
2.	Advisory Committee member reports:				
	 Wayne Bartholomew Generally, a good October for surfing. Haven't experienced the typical spring northerlies yet. La Nina generally means good waves Duranbah is generally quite good; Snapper has a small hole behind the rock and Rainbow Bay has good quality banks. 				
	Peter Turner - Generally good / consistent conditions at Duranbah, Snapper, Rainbow and Greenmount - Coolangatta creek outlet has been diverted toward the south (via machines) - Entrance – Navigation almost always possible, generally better than it was before TSB, questioned what the dredge vessel was doing (didn't seem to be dredging)				
	John Ede				
	Bruce Lee - Swimming at Rainbow Bay is generally good - SLSC signage recognises that Rainbow is a shared zone for swimming and surfing - Acknowledged the tweed bar is dangerous - Observed that north to south drift of sand from point danger back to the entrance would likely be minor compared to the predominant south to north movement of sand.				
3.	Project overview presentation attached.				
	Meeting end: 18:30				
	Next meeting: 15 February 2023				

Meeting Minutes 2 / 2

ADVISORY COMMITTEE MEETING

16 November 2022

PROJECT MONITORING AND OPERATIONAL OVERVIEW

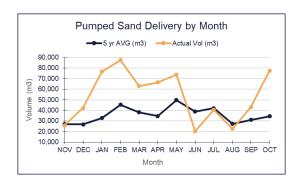
- Pumping operations
- Environmental Monitoring / beach observations
- Entrance conditions, usage and survey
- TSB projects and enhancements
- Communications







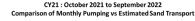
PUMPING OPERATIONS 2022



5 yr Avg Vol - Nov to Oct = 428,175m3 Act Vol - Nov'21 to Oct '22 = 639,720m3

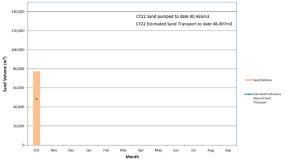
PUMPING BY JETTY MOUNTED SYSTEM 2022					
MONTH	Vol SRE (m3)	Vol D'Bah (m3)	Total Vol (m3)	5 Yr AVG (m3)	
JAN	76,670	0	76,670	32,712	
FEB	56,018	31,502	87,520	45,401	
MAR	63,092	0	63,092	38,229	
APR	66,392	0	66,392	34,569	
MAY	73,797	0	73,797	49,844	
JUN	20,317	0	20,317	38,920	
JUL	29,130	11,445	40,575	42,051	
AUG	22,517	0	22,517	27,248	
SEP	42,505	681	43,186	31,027	
OCT	77,432	0	77,432	34,389	
NOV			0	26,921	
DEC			0	26,864	
TOTAL	527,870	43,628	571,498	428,175	

January , February and October monthly pumping records





CY22: October 2022 to September 2023
Comparison of Monthly Pumping vs Estimated Sand Transport



Modelled vs actual





FROGGIES / SNAPPER EVOLUTION - AUGUST TO

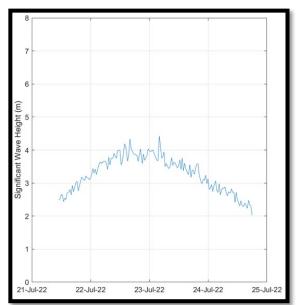
SEPTEMBE

Note: 23 July, Hs = 4.4m 23 October, Hs = 3.9m

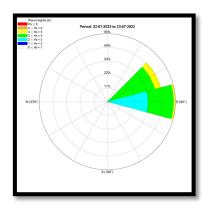


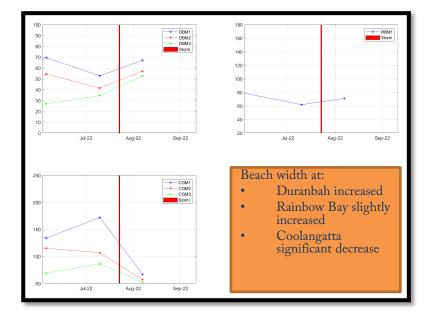


ANALYSIS OF LOVERS ROCK PLACEMENT DURING LARGE SWELL



21.07.22 to 25.07.22 = 11,445 m3 pumped to lovers with missed day on 24th due to slurry pump issue







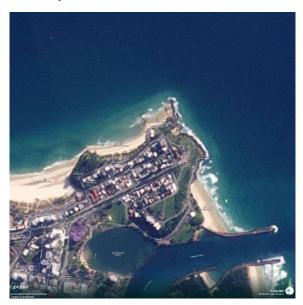


15,517 m3 pumped to SRE + 11,445 m3 pumped to lovers between 15 Jul and 10 Aug

15th July 2022

25th July 2022

10th August 2022

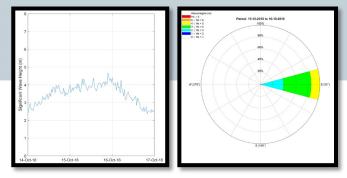










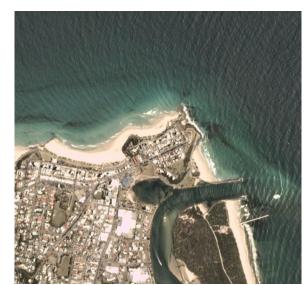


41,230 m3 pumped to SRE between 9 Oct 2018 and 14 Nov 2018

9th Oct 2018 23rd Oct 2018 14th Nov 2018





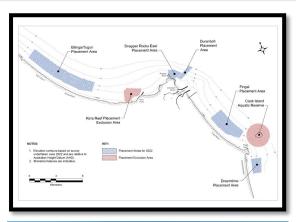


Restoring Coastal Sand Drift - Improving Boating Access

2022 DREDGING

27 August to 6 November

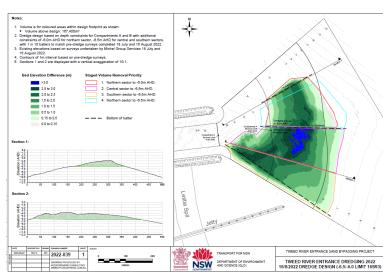
SAND DELIVERY BY DREDGE 2022						
MONTH	Duranbah	SRE	Fingal	Dreamtime	Bilinga	Total Vol (m3)
JAN						
FEB						
MAR						
APR						
MAY						
JUN						
JUL						
AUG	7,548			8,626		16,174
SEP	5,963	30,397				36,360
OCT	10,256	2,777				13,033
NOV	6,832					6,832
DEC						
TOTAL	30,599	33,174	0	8,626	0	72,399





2023 DREDGING

April – remainder of design planned for completion

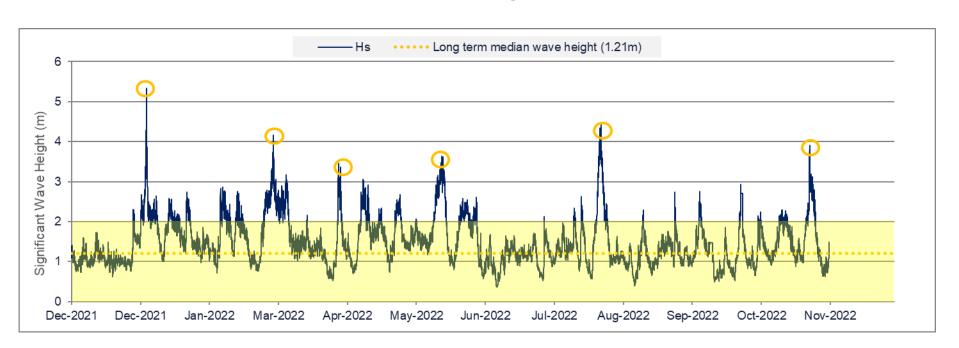








ENVIRONMENTAL MONITORING / BEACH OBSERVATIONS

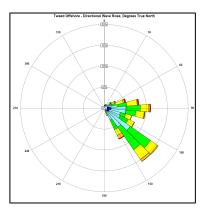




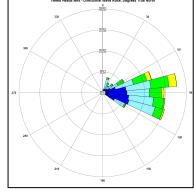


ENVIRONMENTAL MONITORING / BEACH OBSERVATIONS

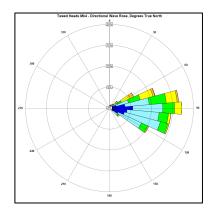








2021 May – 2021 Oct



2022 May – 2022 Oct





RECENT CONDITIONS

August - Following the swell of late July, Snapper Rocks bank quality deteriorated due to deeper conditions behind and around Snapper Rocks. August saw a rebuilding of the sand pathway

September – Two relatively minor swell events for the month (ESE and NE). Beaches north of Greenmount headland and Kirra groyne were wider at low tide compared to the month before due to sand supply

October - Duranbah beach held up well following the Coral sea low swell event. Some recession along north facing beaches was evident







Coolangatta beach low tide



Duranbah pre storm event



Duranbah post storm event







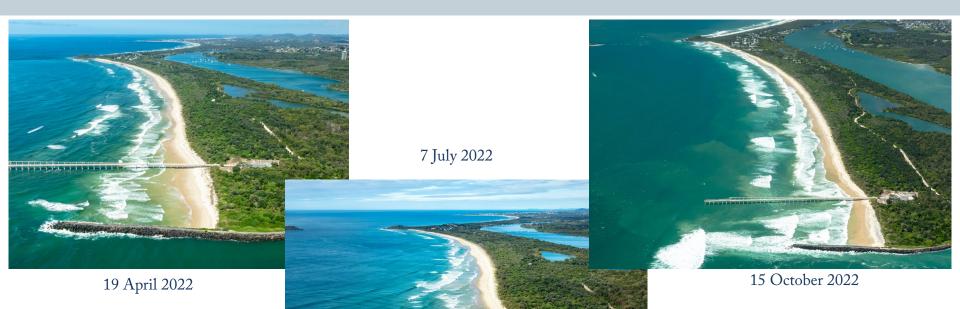








7 July 2022



LETITIA



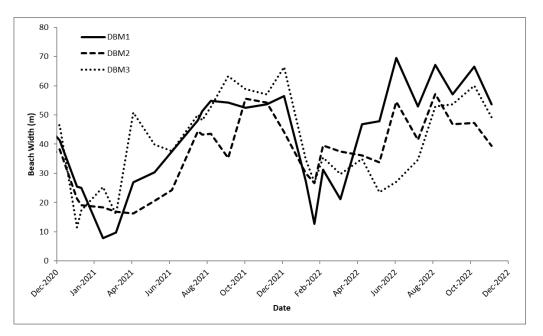




DURANBAH BEACH







500 400 DBM2 DBM3 300 ш 200 100 -100-200 -300 -500 m

DURANBAH - BEACH WIDTH DATA







19 April 2022

SNAPPER ROCKS RAINBOW BAY



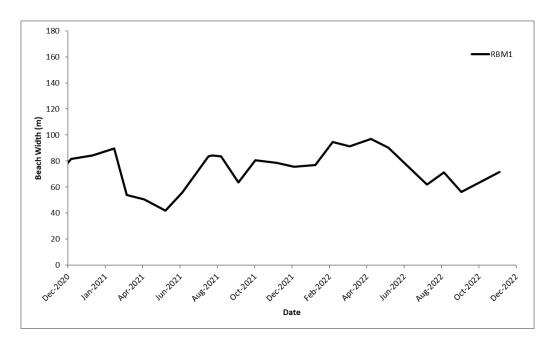


7 July 2022

15 October 2022







0 -100 m

RAINBOW BAY - BEACH WIDTH DATA







COOLANGATTA

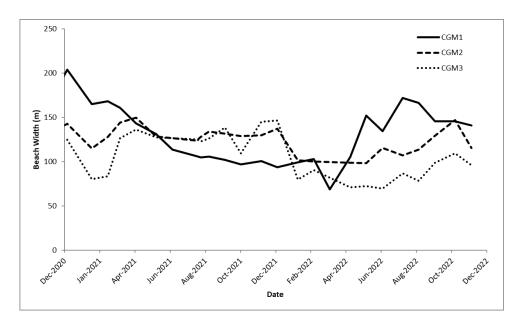
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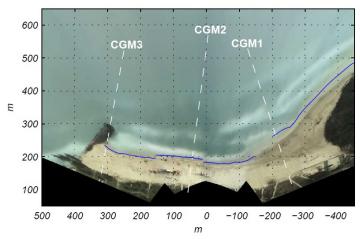
7 July 2022

15 October 2022









COOLANGATTA-BEACH WIDTH DATA







19 April 2022



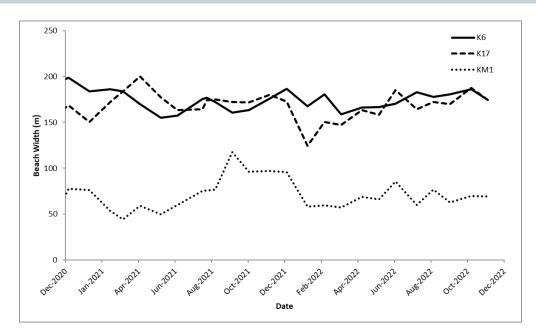
15 October 2022

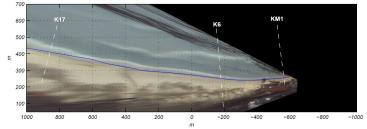


KIRRA









KIRRA- BEACH WIDTH DATA







BILINGA











SURF CONDITIONS







2 October 2022 – Duranbah









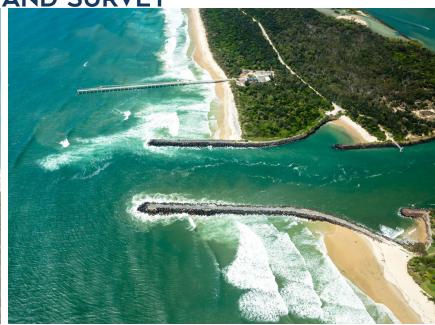






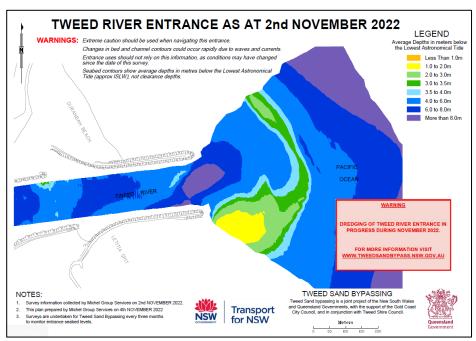
ENTRANCE CONDITIONS, USAGE AND SURVEY

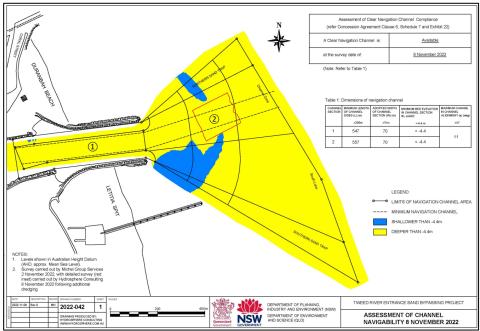












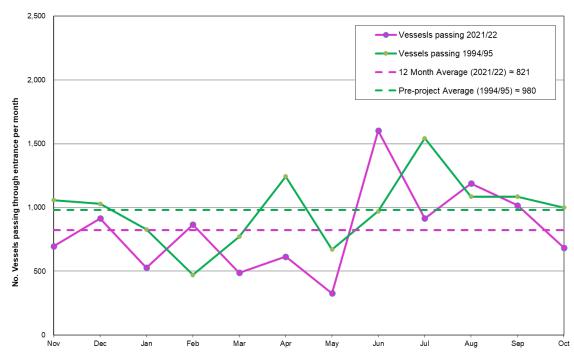




ENTRANCE USAGE

- Generally vessel passing numbers have been variable and highly dependant on conditions.
- On average over the past 12 months numbers have been just under the pre-project average.

Comparison of vessels passing through the entrance per month in 2021/22 compared to 1994/95 (prior to entrance improvements)









PROJECTS AND ENHANCEMENTS

TSB Transition Kirra pipeline detailed design Asset Condition Assessment Kirra Amenity Study Cathodic Protection Investigation

Draft Strategy prepared (2024-2029), drafting of plans, procedures, and specifications, ICT preparations, legal instruments, property matters and asset handover.

Detailed design being revised to improve visual amenity.

Comprehensive condition assessment complete. Asset generally in good operating condition. Some corrosion management issues to be addressed.

Assessment of Kirra Amenity including surf amenity and future predictions.

Investigation planned to determine whether improvements can be made to the cathodic protection system.





COMMUNICATIONS AND ENGAGEMENT

School Group excursions to jetty using TSB schools package

TSB Instagram post for Duranbah pumping placement

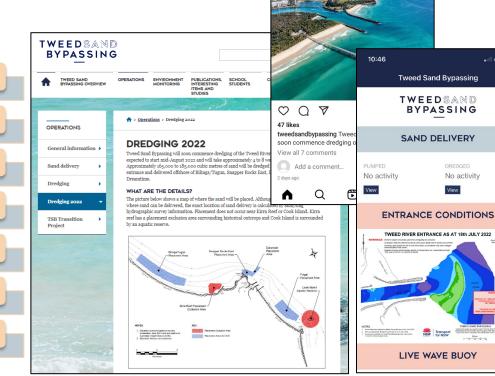
TSB Instagram posts for 2022 dredging

TSB app updates with volumes, locations and entrance maps

TSB website updated with a dedicated 2022 dredging webpage

Surfing Australia TV series "Rivals" featured TSB

Work underway on presentation to community focus groups







10 46 all 90% i

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Tweed Sand Bypassing TWEEDSAND

BYPASSING

SAND DELIVERY

LIVE WAVE BUOY

No activity

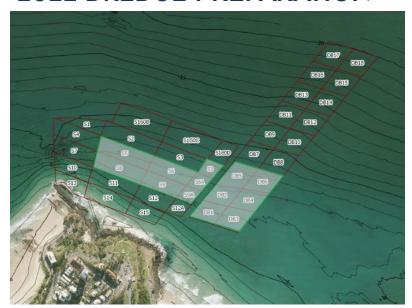
View

Instagram ~

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

2022 DREDGE PREPARATION



33,174m3 placed at Snapper Rocks and 30,599m3 placed at Duranbah



8,626m3 placed at Dreamtime



