

TRESBP ENVIRONMENTAL MONITORING SUMMARY

NOVEMBER 2010

OVERVIEW

In November, 2010:

- 40,395 m³ of sand was pumped to Snapper Rocks East.
- There were no media articles referring to the project.
- Sea conditions were moderate on seven days of the month and average conditions prevailed for the remainder of the month.
- No boating data is available for this month.
- The estimated amount of sand moving north towards the Tweed River Entrance by natural processes was about 35,000m³ (this is about equal to the November average).

1. SAND PUMPING & DREDGING

Sand Delivery November 2010

Pumped:	40,395m ³
Dredged:	0m ³
Total:	40,395m ³

Sand Delivery January to November 2010 (YTD)

Pumped:	380,234m ³
Dredged:	0m ³
Total:	380,234m ³

Sand Delivery January to November 2009

Pumped:	401,188m ³
Dredged:	0m ³
Total:	401,188m ³

Stage II Sand Delivery May 2000 to November 2010

Pumped:	5,795,363m ³
Dredged:	2,038,900m ³
Total:	7,834,263m ³



Land & Property
Management Authority

Department of Environment
and Resource Management



Queensland Government

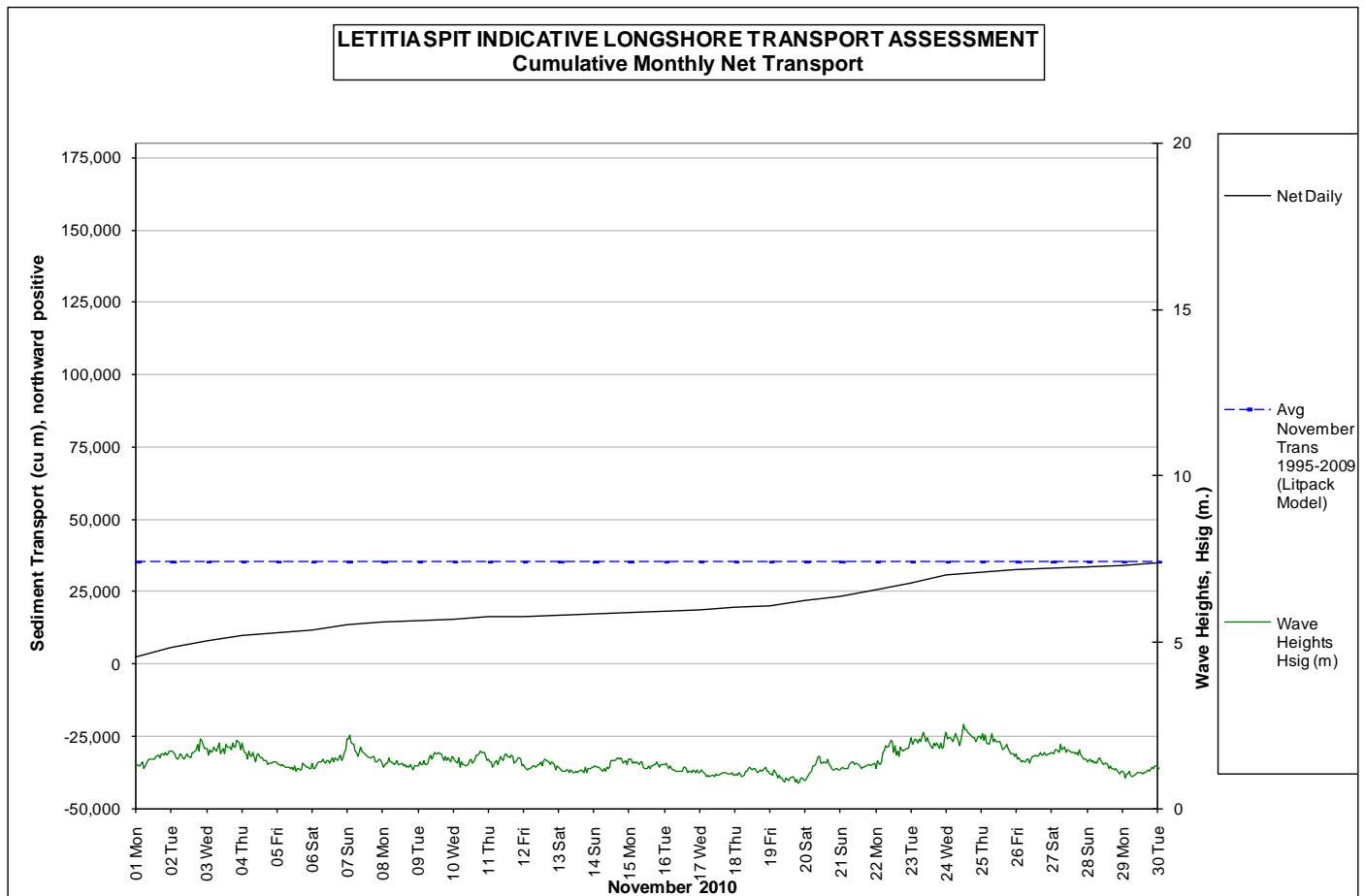


2. INDICATIVE LONGSHORE TRANSPORT

The graph below is based on a simplified sediment transport model and is indicative only.

November 2010 estimated natural sand transport (moving N towards Tweed entrance): 35,000m³.

This result is about equal to the average sand transport quantity for the month of November.



3. MEDIA COVERAGE

No media coverage referring to the project this month.

4. TWEED RIVER ENTRANCE CONDITIONS

No boat or Entrance Conditions available this month.

5. WAVE & SURFING CONDITIONS

Dominant swell condition: Moderate seas occurred on seven days ($H_s \geq 2\text{m}$) being 3rd, 4th, 7th 23rd to 26th and average seas for most of the month. Wave directions varied from E to ENE.

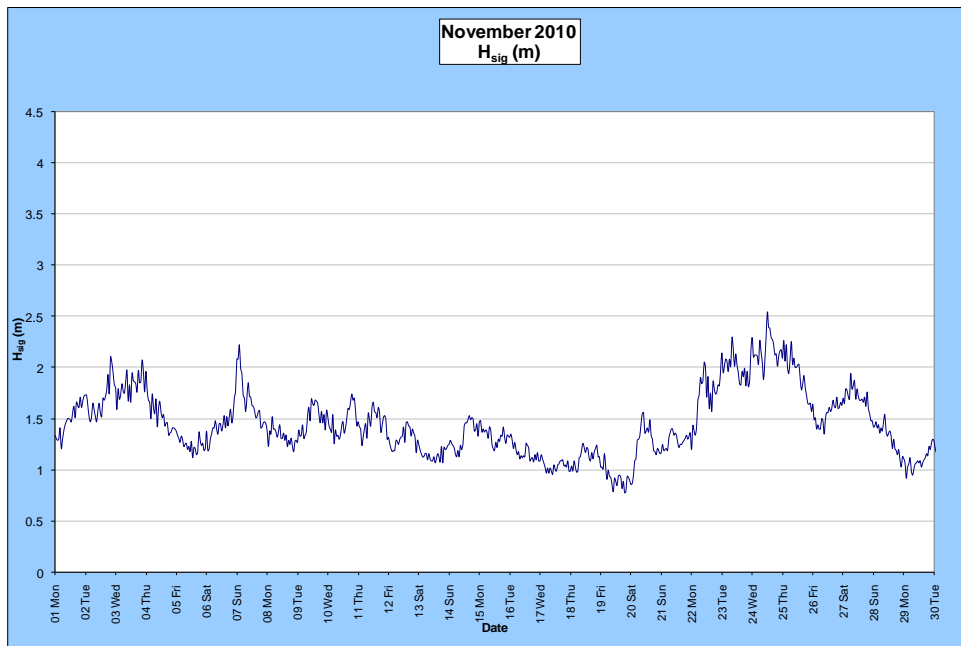
High sea events: Nil

Monthly minimum significant wave height: 0.78m on 19th November

Monthly maximum significant wave height: 2.54m on 24th November

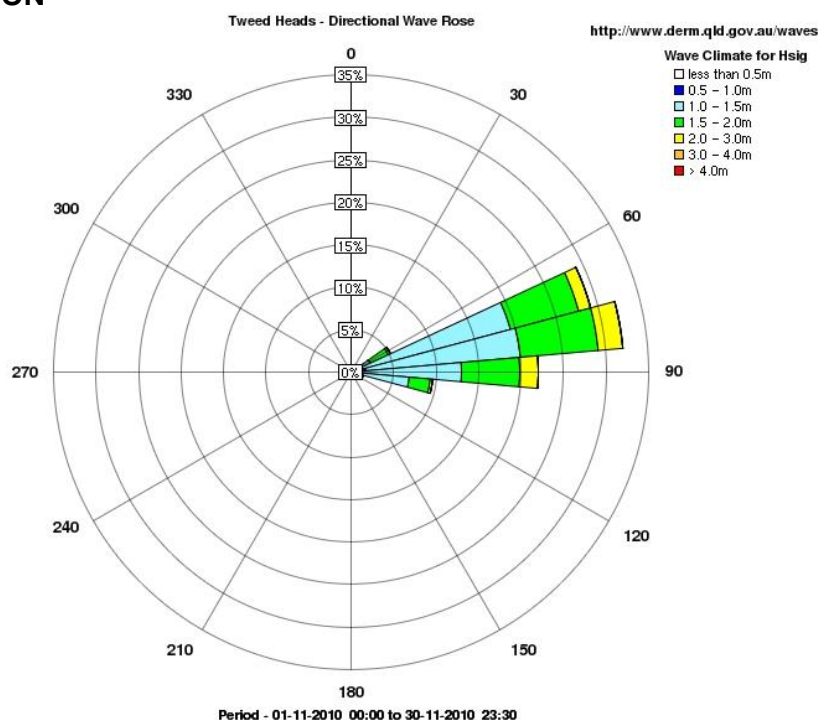
Number of days on which waves were below 1.0 m: 4 days

Number of days on which waves were above 2.0 m: 7 days (Source: Tweed & Brisbane Wave Buoy; QDERM)



A link to data recorded by the Tweed Waverider Buoy is available at: <http://www.derm.qld.gov.au/waves>

WAVE DIRECTION



Source: Queensland
Department of Environment
and Resource Management

UPCOMING SURF AND SURF LIFESAVING EVENTS

- U14 to U17 Athlete Development and Talent ID Clinic, 13 & 14 December 2010, Gold Coast
- PDB Surf Rescue Championships, 14 January 2011, Bilinga
- Qld Cup (Rd 1) – Surf Boats, 29 January 2011, Currumbin
- 2011 Qld State Board Riding champs, 5 & 6 February 2011, Currumbin
- Qld Cup (Rd 3) – Surf Boats, 19 February 2011, Tugun
- U8-U10 Little Dudes, 21 November 2010 to 12 February 2011, Coolangatta

PHOTOGRAPHS OF SURF CONDITIONS



Rainbow, 1 November 2010 (source: Swellnet Surf Report)



Greenmount, 2 November 2010 (source: Swellnet Surf Report)



Duranbah, 23 November 2010 (source: Swellnet Surf Report)



Snapper Rocks, 26 November 2010 (source: Swellnet Surf Report)

SURF REPORT OVERVIEW

DATE	SURF	DIRECTION	COMMENTS
1	Glassy, 0.6 to 0.9m	E	There is enough swell for the beaches or the points
2	Clean, 0.9m	ESE	Pumping through this morning with sets on exposed beaches close to 1.2m
3	Glassy, 0.9 to 1.2m	E	Pumping, ground swell evident
4	Lumpy, 1m	E	Plenty of 1m waves, bumpy but manageable
5	Clean, 0.6 to 1m	ESE	Good times for Coolangatta surfers.
9	Bumpy, 0.6m	ENE	Sloppy short period swell.
10	Lumpy, 0.6m	ENE	Get the waves before wind shifts to NE
12	Sloppy, 0.6m	ENE	Swell still hanging around but pretty sloppy
15	Clean, 0.6 to 1m	E	Fun waves all round the place
16	Bumpy, 0.6m	E	Peak 0.6m waves across the coast
17	Clean, 0.3 to 0.6m	E	Favourable winds but not a lot of wave action
22	Bumpy, 0.6m	ESE	Fresh winds from the south overnight leaving exposed beaches with bumpy waves
23	Choppy, 1m	ESE	Occasional pockets of good waves
24	Choppy, 1 to 1.2m	ESE	A case of quantity rather than quality.
25	Lumpy, 1 to 1.2m	SE	The swell is hanging around nicely so there shouldn't be too many complaints about size
26	Bumpy, 1m	E	The points again will offer something worthwhile
29	Glassy, 0.6m	E	Fun waves around, looks like the swell has lost much of its gusto

Source: Swellnet - Coolangatta Surf Report

Generally, November experienced moderate to average conditions.

END