

Boskalis Australia

Port Kembla Berth 103 Dredging and Spoil Disposal

Fortnightly Turbidity Report 29 June to 12 July 2015

Narrative

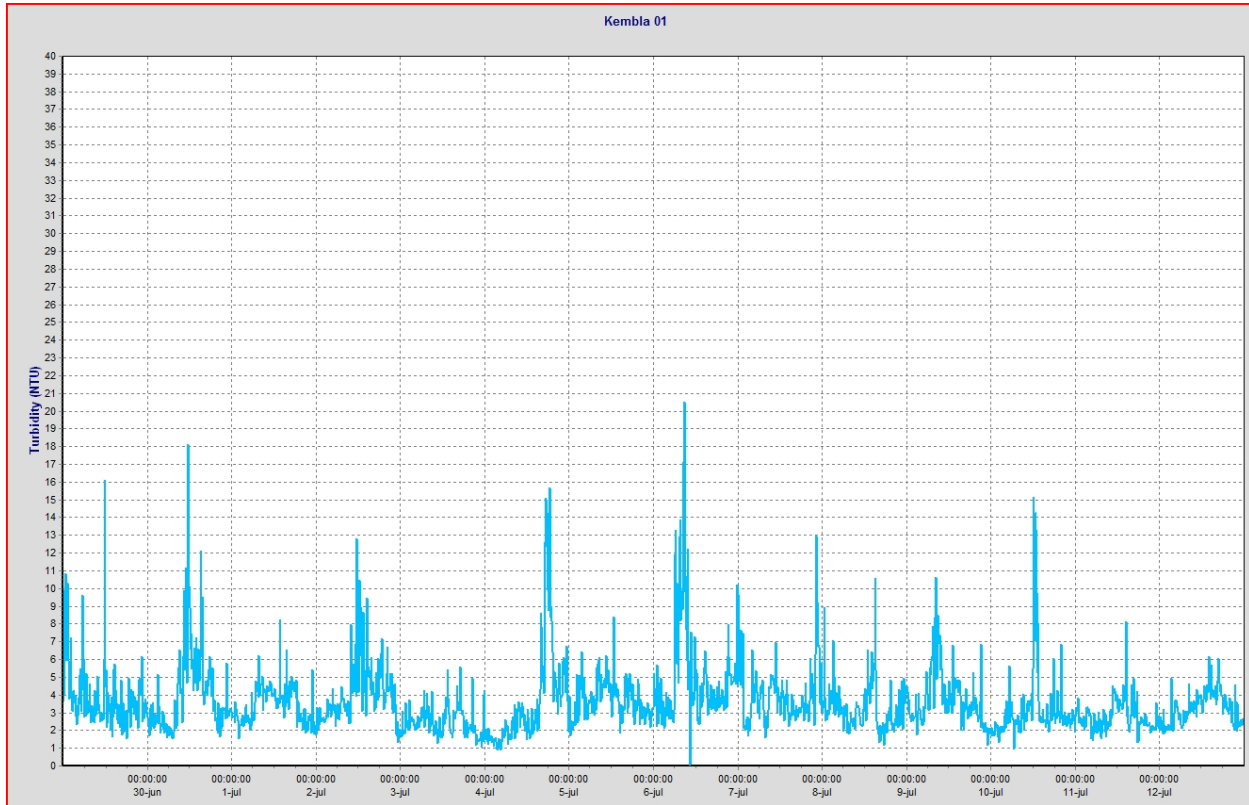
- 5 x Turbidity Buoys installed for the project
- Buoys provide readings every 10 minutes to an online reporting program monitored by Boskalis Project Management Team
- High readings automatically send an alarm to Boskalis Project Management Team
- Dredging commenced on 21 June 2015 at Berth 103
- All Buoys were removed from the water, cleaned and serviced on 6 July 2015 following high readings due to Marine growth on the sensors
- Buoys will be removed from the water, cleaned and serviced each fortnight to maintain accuracy of the data.
- Elevated readings identified correspond with shipping movements within the port. The high readings rapidly drop at the completion of the shipping movement
- Daily testing conducted using a hand held probe
- Water samples taken for testing by an external laboratory 9 July

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Port Kembla Berth 103 Dredging and Spoil Disposal

Turbidity Buoy Graphs

Kembla 01 located opposite Berth 102



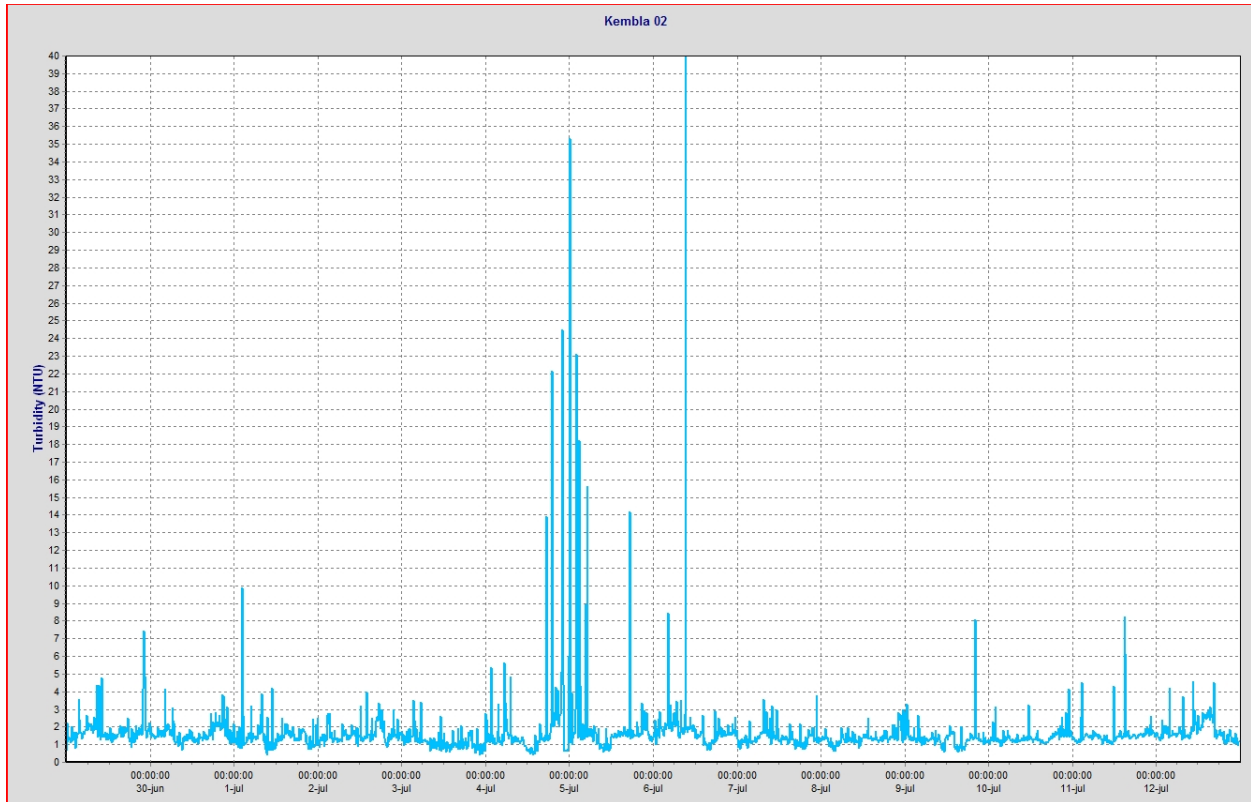
Peaks Explanations

Date	Time	NTU Level	Reason
29/6/15	0050	10.86	Inward Vessel 424574
	1200	16.07	Outward Vessel 424565
30/6/15	1140	18.14	Inward Vessel 424630
	1520	12.12	Outward Vessel 424531
2/7/15	1140	12.81	Outward Vessel 424630
4/7/15	1720	15.09	Outward Vessel 424722
	1840	15.65	Inward Vessel 424634
6/7/15	0740	13.84	Outward Vessel 424634
	0850	20.53	Buoy removed from water and serviced and cleaned
	2350	10.21	Unknown
7/7/15	2220	12.96	Inward Vessel 424680
8/7/15	1510	10.59	Uknown
9/7/15	0830	10.60	Inward Vessel 424748
10/7/15	1210	15.13	Inward Vessel 424714

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Kembla 02 located North East of the Spoil Disposal Ground



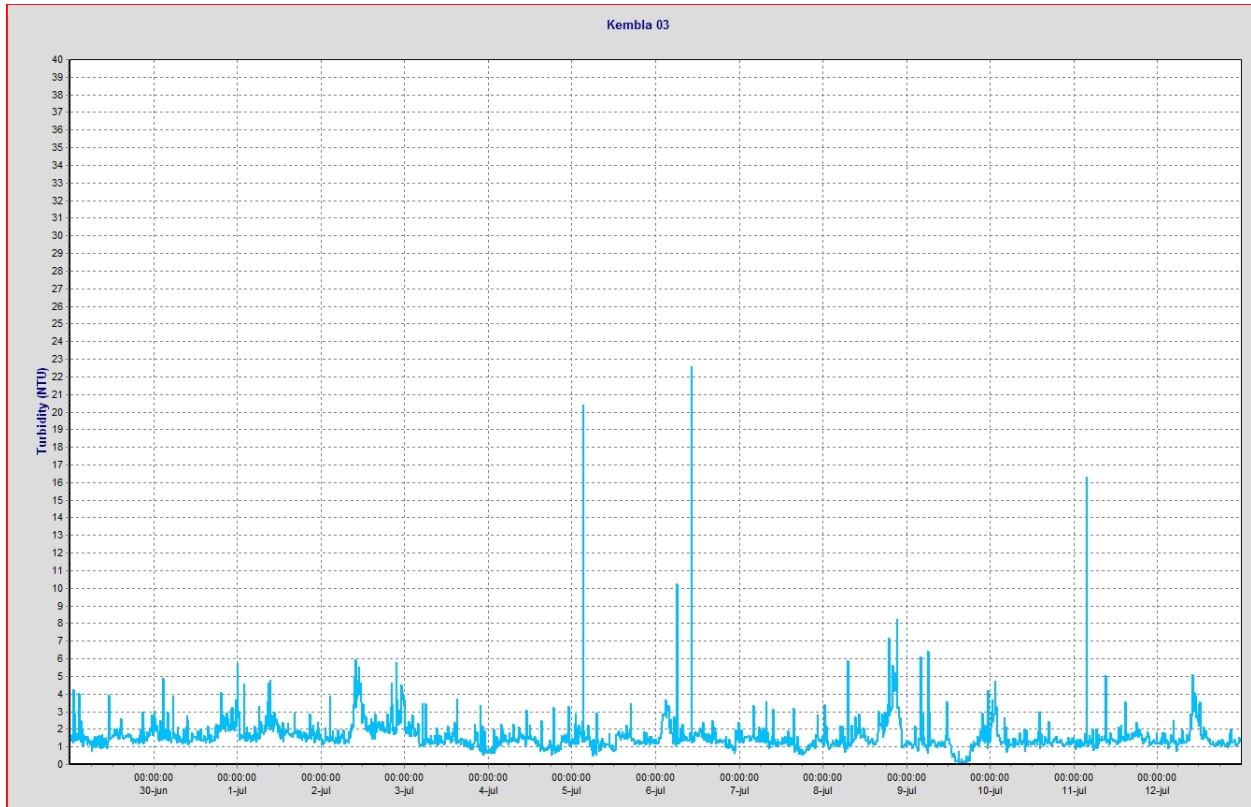
Peaks Explanations

Date	Time	NTU Level	Reason
4/7/15	1730	13.93	Barge dump near curtain
	1910	22.14	Heavy Biofouling detected
	2200	24.49	Heavy Biofouling detected
5/7/15	0010	35.35	Heavy Biofouling detected
	0210	23.13	Heavy Biofouling detected
	0250	18.23	Heavy Biofouling detected
	0510	15.61	Heavy Biofouling detected
	1720	14.16	Heavy Biofouling detected
6/7/15	0920	59.94	Buoy removed from water for servicing and cleaning

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Kembla 03 located South West of Spoil Disposal Ground



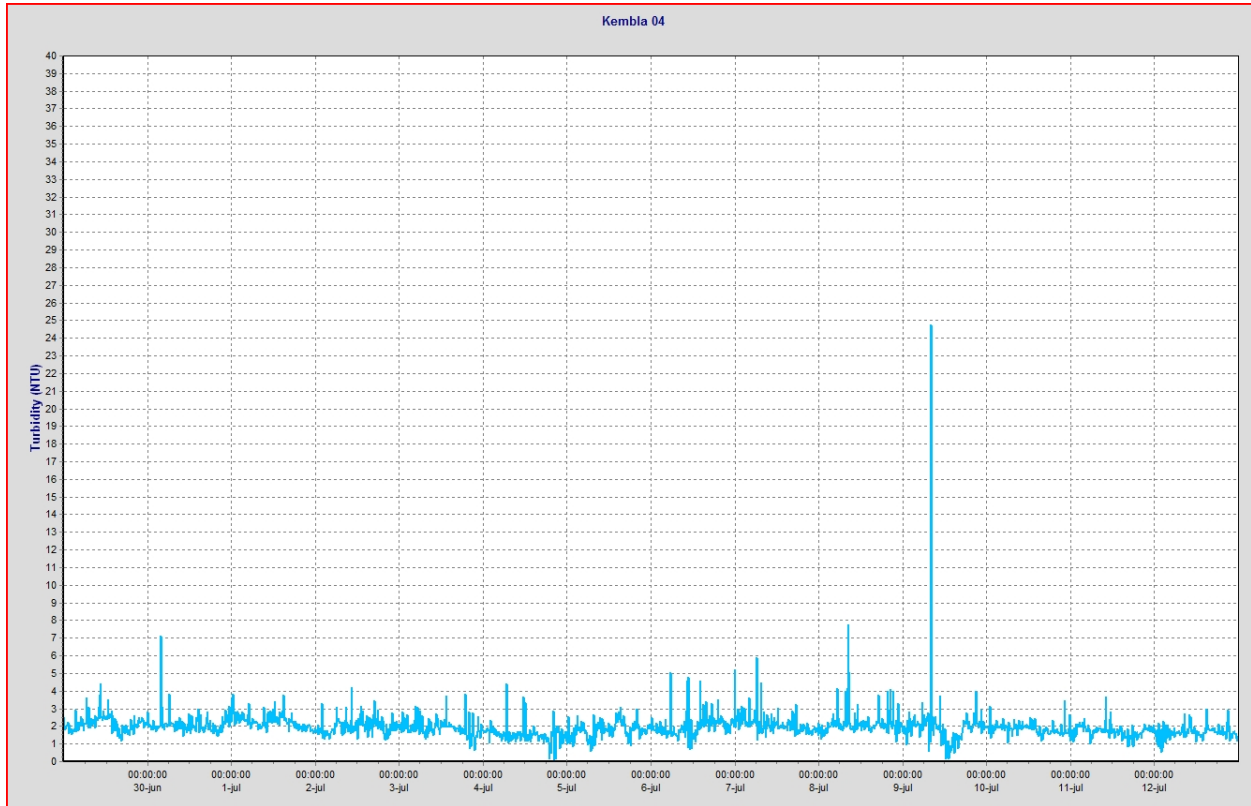
Peaks Explanations

Date	Time	NTU Level	Reason
5/7/15	0320	20.40	Unknown
6/7/15	0610	10.26	Unknown
	1020	22.57	Buoy removed from water fro servicing and cleaning
11/7/15	0340	16.33	Unknown

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Kembla 04 located at the entrance to the outer harbour



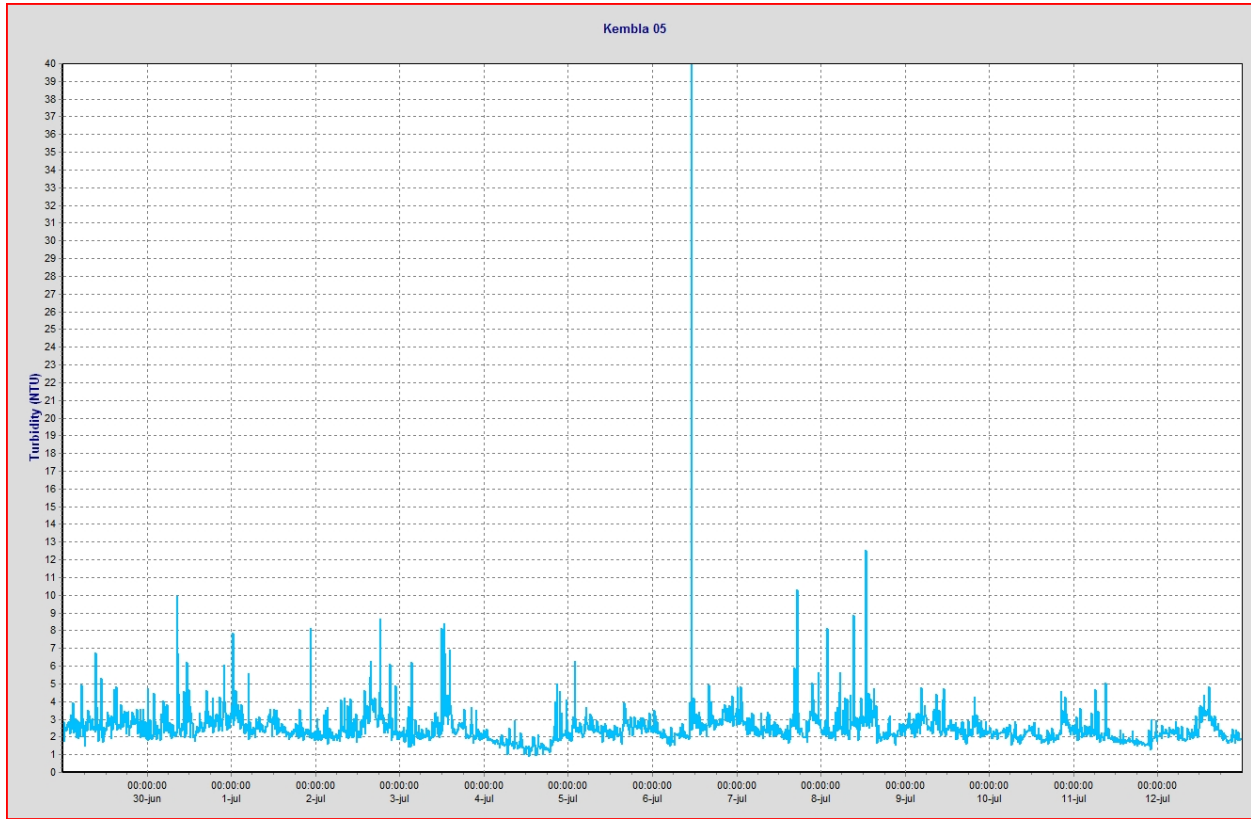
Peaks Explanations

Date	Time	NTU Level	Reason
9/7/15	0810	24.74	Fisherman sighted working close to the buoy by Survey Boat Crew

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Kembla 05 located next to berth 113



Peaks Explanations

Date	Time	NTU Level	Reason
6/7/15	1110	53.56	Buoy removed from water for servicing and cleaning
8/7/15	1250	12.52	Unknown