



# PORT KEMBLA COAL TERMINAL LTD.



Licencee:	Port Kembla Coal Terminal Limited
Environment Protection Licence:	1625
Licence URL:	<a href="http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=106587&amp;SYSUID=1&amp;LICID=1625">http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=106587&amp;SYSUID=1&amp;LICID=1625</a>
PKCT EPA Public Register	<a href="https://apps.epa.nsw.gov.au/prpoeoapp/Detail.aspx?instid=1625&amp;id=1625&amp;option=licence&amp;searchrange=general&amp;range=POEOlicence&amp;prp=no&amp;status=Issued">https://apps.epa.nsw.gov.au/prpoeoapp/Detail.aspx?instid=1625&amp;id=1625&amp;option=licence&amp;searchrange=general&amp;range=POEOlicence&amp;prp=no&amp;status=Issued</a>
Location:	Port Kembla Road, Port Kembla Inner Harbour, Wollongong
Postal Address:	PO Box 823, Wollongong East 2502





# PORT KEMBLA COAL TERMINAL LTD.



EPL MONITORING SITES- INDUSTRIAL			Calendar Year 2024																Annual average: grams per square metre month	
Monthly Analysis		MONTH	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	MIN	MEAN	MAX	rolling 12 month average	PKCT assessment criteria	
EPL No.	Location Gauge Number	analysis: grams/square metre month													Samples collected					
1	P1	Insoluble Solids													0	0.0	#DIV/0!	0.0		
	25m South	Ash													0	0.0	#DIV/0!	0.0		
	BPB Coal Berth	Combustible Matter													0	0.0	#DIV/0!	0.0		
2	P2	Insoluble Solids													0	0.0	#DIV/0!	0.0		
	40m South of	Ash													0	0.0	#DIV/0!	0.0		
	BPB Stockyard	Combustible Matter													0	0.0	#DIV/0!	0.0		
3	P3	Insoluble Solids	3.8	6.7	5.6	7.8	12.8	18.5							6	3.8	9.2	18.5	10.7	15.0
	40m East of	Ash	2.6	5.0	4.4	5.2	10.1	14.6							6	2.6	7.0	14.6		
	BPB Stockyard	Combustible Matter	1.2	1.7	1.2	2.6	2.7	3.9							6	1.2	2.2	3.9	2.4	12.0
4	P4	Insoluble Solids	2.5	4.4	3.9	4.9	5.2	6.7							6	2.5	4.6	6.7	4.2	15.0
	40m East Coal Berth	Ash	1.3	2.6	2.0	3.1	3.1	3.4							6	1.3	2.6	3.4		
	Stockyard	Combustible Matter	1.2	1.8	1.9	1.8	2.1	3.3							6	1.2	2.0	3.3	1.9	12.0
5	P5	Insoluble Solids	8.4	6.6	4.9	11.5	5.9	6.5							6	4.9	7.3	11.5	7.1	15.0
	Northern Pond	Ash	2.9	2.7	1.8	4.2	2.3	2.5							6	1.8	2.7	4.2		
	(No.1)	Combustible Matter	5.5	3.9	3.1	7.3	3.6	4.0							6	3.1	4.6	7.3	4.1	12.0
6	P6	Insoluble Solids	3.6	6.0	4.3	7.4	5.0	7.3							6	3.6	5.6	7.4	5.2	15.0
	40m West Coal Berth	Ash	1.7	2.8	2.2	2.0	2.9	4.3							6	1.7	2.7	4.3		
	Stockyard	Combustible Matter	1.9	3.2	2.1	5.4	2.1	3.0							6	1.9	3.0	5.4	2.7	12.0
7	P7	Insoluble Solids	4.4	5.3	4.5	2.2	4.7	3.7							6	2.2	4.1	5.3	3.1	15.0
	260m West No.2	Ash	1.6	2.5	2.0	1.0	2.3	2.5							6	1.0	2.0	2.5		
	Coalberth	Combustible Matter	2.8	2.8	2.5	1.2	2.4	1.2							6	1.2	2.2	2.8	1.6	12.0
8	P8	Insoluble Solids	3.4	5.5	8.5	9.0	5.4	6.1							6	3.4	6.3	9.0	6.5	15.0
	PKCT North	Ash	1.1	2.2	2.1	2.3	2.2	1.6							6	1.1	1.9	2.3		
	Truckwash	Combustible Matter	2.3	2.8	6.4	6.7	3.2	4.5							6	2.3	4.3	6.7	4.5	12.0
9	P9	Insoluble Solids	3.7	4.6	3.7	4.0	6.3	3.1							6	3.1	4.2	6.3	3.4	6.0
	Wollongong	Ash	1.7	2.3	1.8	2.0	3.5	1.6							6	1.6	2.2	3.5		
	Wastewater TP.	Combustible Matter	2.0	2.3	1.9	2.0	2.8	1.5							6	1.5	2.1	2.8	1.7	4.0
15	P10	Insoluble Solids	3.2	6.5	8.2	13.5	10.3	16.0							6	3.2	9.6	16.0	8.6	15.0
	North of PKCT	Ash	1.2	3.5	4.5	7.1	6.1	8.5							6	1.2	5.2	8.5		
	Planning Office	Combustible Matter	2.0	3.0	3.7	6.4	4.2	7.5							6	2.0	4.5	7.5	4.1	12.0
17	P11	Insoluble Solids	6.0	6.9	6.1	5.0	4.7	4.2							6	4.2	5.5	6.9	4.9	6.0
	Entry Gate BlueScope	Ash	4.7	5.1	4.5	4.1	3.3	3.3							6	3.3	4.2	5.1		
	RO.RO Berth (109)	Combustible Matter	1.3	1.8	1.6	0.9	1.4	0.9							6	0.9	1.3	1.8	1.1	4.0

### MONTHLY REPORT: COMMENTARY ON RESULTS

Note 1: there are no EPL air quality limits in the EPL for industrial monitoring sites. Historical information provides baseline data and assessment criteria has been adopted to assess against actual results to facilitate performance improvement.

SAMPLE PERIOD	Date Sampled	Date Results Obtained	Date Published	COMMENTARY ON RESULTS
January 2024	6/02/2024	28/02/2024	29/02/2024	All results within assessment criteria
February 2024	5/03/2024	25/03/2024	25/03/2024	All results within assessment criteria
March 2024	5/04/2024	22/04/2024	22/04/2024	All results within assessment criteria
April 2024	6/05/2024	22/05/2024	23/05/2024	All results within assessment criteria
May 2024	5/06/2024	21/06/2024	24/06/2024	All results within assessment criteria
June 2024	5/07/2024	18/07/2024	18/07/2024	All results within assessment criteria



# PORT KEMBLA COAL TERMINAL LTD.



EPL MONITORING SITES- RESIDENTIAL			Calendar Year 2024												Monthly Analysis				annual average: grams per square metre.month		
			MONTH	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	No. samples collected	MIN	MEAN			MAX
EPL No.	Location Gauge Number	Analysis: grams/square metre.month																			
12	R1	Insoluble Solids	1.3	1.6	0.9	0.4	1.3	0.9								6	0.4	1.1	1.6	0.9	4.0
	157 Church St	Ash	0.9	1.1	0.7	0.3	1.1	0.6							6	0.3	0.8	1.1			
	Wollongong	Combustible Matter	0.4	0.5	0.2	0.1	0.2	0.3							6	0.1	0.3	0.5			
19	R2	Insoluble Solids	2.6	0.7	1.2	1.5	0.9	1.8							6	0.7	1.5	2.6	1.2	4.0	
	Vikings Oval	Ash	0.9	0.3	0.7	0.6	0.5	0.9							6	0.3	0.7	0.9			
	Wollongong	Combustible Matter	1.7	0.4	0.5	0.9	0.4	0.9							6	0.4	0.8	1.7			
TBA	R3	Insoluble Solids	2.3	2.6	1.2	0.7	1.2	1.6							6	0.7	1.6	2.6	1.9	4.0	
	Ross Street	Ash	1.3	1.6	0.6	0.4	0.8	1.1							6	0.4	1.0	1.6			
	Wollongong	Combustible Matter	1.0	1.0	0.6	0.3	0.4	0.5							6	0.3	0.6	1.0			

### MONTHLY REPORT: COMMENTARY ON RESULTS

Note 1: Assessment criteria is based on an EPA guideline of annual average of 4 grams per square metre per month for residential areas. PKCT has adopted a level of 2 grams per square metre for combustible matter for assessment purposes.

SAMPLE PERIOD	Date Sampled	Date Results Obtained	Date Published	COMMENTARY
January 2024	6/02/2024	28/02/2024	29/02/2024	All sites within assessment criteria
February 2024	5/03/2024	25/03/2024	25/03/2024	All sites within assessment criteria
March 2024	5/04/2024	22/04/2024	22/04/2024	All sites within assessment criteria
April 2024	6/05/2024	22/05/2024	23/05/2024	All sites within assessment criteria
May 2024	5/06/2024	21/06/2024	24/06/2024	All sites within assessment criteria
June 2024	5/07/2024	18/07/2024	18/07/2024	All sites within assessment criteria
July 2024				
August 2024				
September 2024				
October 2024				
November 2024				
December 2024				



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## SETTLEMENT LAGOON OVERFLOW: ENVIRONMENT PROTECTION LICENCE MONITORING: Licenced Discharge POINT 16

<b>Environment Protection Licence: 1625</b> Type of Monitoring: water quality Frequency: daily grab sample when discharging			water quality parameter		EPL Limit (100 percentile)	Commentary on Results
			pH		monitoring only	
			total suspended solids (mg/L)		less than 50	
			oil/ grease (milligrams per litre)		not visible	
Sample Date	Date Results Obtained	Date Published	pH (pH units)	total suspended solids (milligrams per litre)	oil/ grease (milligrams per litre)	
1/01/2024	28/02/2024	29/02/2024	8.22	<5	not visible	EPL Compliant
2/01/2024	28/02/2024	29/02/2024	8.31	<5	not visible	EPL Compliant
3/01/2024	28/02/2024	29/02/2024	7.97	<5	not visible	EPL Compliant
4/01/2024	28/02/2024	29/02/2024	8.27	<5	not visible	EPL Compliant
5/01/2024	28/02/2024	29/02/2024	8.38	<5	not visible	EPL Compliant
6/01/2024	28/02/2024	29/02/2024	8.49	<5	not visible	EPL Compliant
11/01/2024	28/02/2024	29/02/2024	9.00	7	not visible	EPL Compliant
12/01/2024	28/02/2024	29/02/2024	8.93	<5	not visible	EPL Compliant
15/01/2024	28/02/2024	29/02/2024	9.20	8	not visible	EPL Compliant
16/01/2024	28/02/2024	29/02/2024	9.04	5	not visible	EPL Compliant
17/01/2024	28/02/2024	29/02/2024	8.78	<5	not visible	EPL Compliant
18/01/2024	28/02/2024	29/02/2024	9.2	<5	not visible	EPL Compliant
19/01/2024	28/02/2024	29/02/2024	8.8	<5	not visible	EPL Compliant
20/01/2024	28/02/2024	29/02/2024	9.0	11	not visible	EPL Compliant
21/01/2024	28/02/2024	29/02/2024	9.4	7	not visible	EPL Compliant
22/01/2024	28/02/2024	29/02/2024	9.6	12	not visible	EPL Compliant
25/01/2024	28/02/2024	29/02/2024	9.0	11	not visible	EPL Compliant
26/01/2024	28/02/2024	29/02/2024	9.1	7	not visible	EPL Compliant
27/01/2024	28/02/2024	29/02/2024	9.1	<5	not visible	EPL Compliant
28/01/2024	28/02/2024	29/02/2024	9.0	5	not visible	EPL Compliant
29/01/2024	28/02/2024	29/02/2024	8.6	<5	not visible	EPL Compliant
30/01/2024	28/02/2024	29/02/2024	8.6	<5	not visible	EPL Compliant
1/02/2024	25/03/2024	25/03/2024	8.6	<5	not visible	EPL Compliant
1/02/2024	25/03/2024	25/03/2024	8.7	<5	not visible	EPL Compliant
2/02/2024	25/03/2024	25/03/2024	8.8	<5	not visible	EPL Compliant
3/02/2024	25/03/2024	25/03/2024	9.0	<5	not visible	EPL Compliant
6/02/2024	25/03/2024	25/03/2024	9.3	<5	not visible	EPL Compliant
7/02/2024	25/03/2024	25/03/2024	8.9	8	not visible	EPL Compliant
8/02/2024	25/03/2024	25/03/2024	8.6	<5	not visible	EPL Compliant
9/02/2024	25/03/2024	25/03/2024	9.0	<5	not visible	EPL Compliant
10/02/2024	25/03/2024	25/03/2024	8.7	<5	not visible	EPL Compliant
11/02/2024	25/03/2024	25/03/2024	8.8	<5	not visible	EPL Compliant
12/02/2024	25/03/2024	25/03/2024	8.8	8	not visible	EPL Compliant
13/02/2024	25/03/2024	25/03/2024	8.6	7	not visible	EPL Compliant
14/02/2024	25/03/2024	25/03/2024	8.8	<5	not visible	EPL Compliant
15/02/2024	25/03/2024	25/03/2024	8.7	8	not visible	EPL Compliant

NB TSS (total suspended solids) - under EPL, a TSS water quality limit of 50mg/litre pertains. Exceedance of this limit is permitted when discharge occurs solely as a result of rainfall measured at the premises. For discharge to be considered to occur solely as a result of rainfall, the rainfall must exceed a 5 day rainfall depth value of 90 mm over a consecutive 5 day period.



# PORT KEMBLA COAL TERMINAL LTD.



SETTLEMENT LAGOON OVERFLOW: ENVIRONMENT PROTECTION LICENCE MONITORING: Licenced Discharge POINT 16						
<b>Environment Protection Licence: 1625</b> Type of Monitoring: water quality Frequency: daily grab sample when discharging			water quality parameter		EPL Limit (100 percentile)	
			pH		monitoring only	
			total suspended solids (mg/L)		less than 50	
			oil/ grease (milligrams per litre)		not visible	
Sample Date	Date Results Obtained	Date Published	pH (pH units)	total suspended solids (milligrams per litre)	oil/ grease (milligrams per litre)	Commentary on Results
16/02/2024	25/03/2024	25/03/2024	8.42	<5	not visible	EPL Compliant
20/02/2024	25/03/2024	25/03/2024	8.49	<5	not visible	EPL Compliant
21/02/2024	25/03/2024	25/03/2024	8.54	<5	not visible	EPL Compliant
23/02/2024	25/03/2024	25/03/2024	8.89	<5	not visible	EPL Compliant
24/02/2024	25/03/2024	25/03/2024	8.18	<5	not visible	EPL Compliant
25/02/2024	25/03/2024	25/03/2024	8.18	<5	not visible	EPL Compliant
26/02/2024	25/03/2024	25/03/2024	8.24	<5	not visible	EPL Compliant
27/02/2024	25/03/2024	25/03/2024	8.28	7	not visible	EPL Compliant
28/02/2024	25/03/2024	25/03/2024	8.35	10	not visible	EPL Compliant
29/02/2024	25/03/2024	25/03/2024	8.59	<5	not visible	EPL Compliant
1/03/2024	22/04/2024	23/04/2024	8.54	<5	not visible	EPL Compliant
2/03/2024	22/04/2024	23/04/2024	8.6	<5	not visible	EPL Compliant
4/03/2024	22/04/2024	23/04/2024	8.0	10	not visible	EPL Compliant
5/03/2024	22/04/2024	23/04/2024	8.5	8	not visible	EPL Compliant
6/03/2024	22/04/2024	23/04/2024	8.0	11	not visible	EPL Compliant
7/03/2024	22/04/2024	23/04/2024	8.0	6	not visible	EPL Compliant
8/03/2024	22/04/2024	23/04/2024	8.4	6	not visible	EPL Compliant
11/03/2024	22/04/2024	23/04/2024	7.3	9	not visible	EPL Compliant
12/03/2024	22/04/2024	23/04/2024	8.4	39	not visible	EPL Compliant - lab analysis confirmed high TSS was as a result of an algae bloom, not coal particulate
13/03/2024	22/04/2024	23/04/2024	8.7	11	not visible	EPL Compliant
14/03/2024	22/04/2024	23/04/2024	8.7	6	not visible	EPL Compliant
15/03/2024	22/04/2024	23/04/2024	8.2	<5	not visible	EPL Compliant
16/03/2024	22/04/2024	23/04/2024	8.2	5	not visible	EPL Compliant
17/03/2024	22/04/2024	23/04/2024	8.1	<5	not visible	EPL Compliant
18/03/2024	22/04/2024	23/04/2024	8.0	<5	not visible	EPL Compliant
19/03/2024	22/04/2024	23/04/2024	7.9	14	not visible	EPL Compliant
20/03/2024	22/04/2024	23/04/2024	8.1	<5	not visible	EPL Compliant
21/03/2024	22/04/2024	23/04/2024	8.0	<5	not visible	EPL Compliant
22/03/2024	22/04/2024	23/04/2024	7.8	<5	not visible	EPL Compliant
23/03/2024	22/04/2024	23/04/2024	7.0	<5	not visible	EPL Compliant
24/03/2024	22/04/2024	23/04/2024	7.6	<5	not visible	EPL Compliant
25/03/2024	22/04/2024	23/04/2024	7.2	<5	not visible	EPL Compliant
26/03/2024	22/04/2024	23/04/2024	8.4	<5	not visible	EPL Compliant
27/03/2024	22/04/2024	23/04/2024	7.5	<5	not visible	EPL Compliant
28/03/2024	22/04/2024	23/04/2024	8.0	<5	not visible	EPL Compliant
29/03/2024	22/04/2024	23/04/2024	7.9	<5	not visible	EPL Compliant
30/03/2024	22/04/2024	23/04/2024	8.4	<5	not visible	EPL Compliant
31/03/2024	22/04/2024	23/04/2024	8.3	<5	not visible	EPL Compliant

NB TSS (total suspended solids) - under EPL, a TSS water quality limit of 50mg/litre pertains. Exceedance of this limit is permitted when discharge occurs solely as a result of rainfall measured at the premises. For discharge to be considered to occur solely as a result of rainfall, the rainfall must exceed a 5 day rainfall depth value of 90 mm over a consecutive 5 day period.











# PORT KEMBLA COAL TERMINAL LTD.



2024 PKCT Sedimentation Pond Overflows - EPL 1625							
Ponds location/names: TS1 pond: DP22, Central Pond: DP23, Tower 3 pond: DP24, South Pond: DP25, Workshop Pond DP26, Berth 102 DP27.							
Sample Location	Sample Date	Date Results Obtained	Date Results Published	pH (pH units) Criteria: Monitoring only	Total Suspended Solids (milligrams per litre) Criteria: Monitoring only	Oil/ Grease (milligrams per litre) Criteria: Monitoring only	Commentary on Results
No overflows from any satellite ponds in January 2024							
No overflows from any satellite ponds in February 2024							
No overflows from any satellite ponds in March 2024							
DP22 - TS1 Pond	6/04/2024	16/04/2024	23/05/2024	7.89	1840	not visible	Overflow of TS1 Pond occurred after a heavy rain period (72.4mm) in a 2 hour period leading up to the overflow. Pond sediment levels were below the required 20% and no pump failures occurred. Pond and pump capacity could not keep up with the inflows. Discharge is permitted under PKCT's licence conditions.
DP23 - Central Pond	6/04/2024	16/04/2024	23/05/2024	7.45	108	not visible	Overflow of Central Pond occurred after a heavy rain period (72.4mm) in a 2 hour period leading up to the overflow. Pond sediment levels were below the required 20% and no pump failures occurred. Pond and pump capacity could not keep up with the inflows. Discharge is permitted under PKCT's licence conditions.
DP26 - Workshop Pond	6/04/2024	16/04/2024	23/05/2024	6.93	10	not visible	Overflow of Workshop Pond occurred after a heavy rain period (72.4mm) in a 2 hour period leading up to the overflow. Pond sediment levels were below the required 20% and no pump failures occurred. Pond and pump capacity could not keep up with the inflows. Discharge is permitted under PKCT's licence conditions.
No overflows from any satellite ponds in May 2024							
DP26 - Workshop Pond	6/06/2024	18/07/2024	18/07/2024	7.07	15	not visible	Overflow of Workshop Pond occurred after a heavy rain period (123.6mm) in a 24 hour period leading up to the overflow. Pond sediment levels were below the required 20% and no pump failures occurred. Pond and pump capacity could not keep up with the inflows. Discharge is permitted under PKCT's licence conditions.
DP22 - TS1 Pond	7/06/2024	18/07/2024	18/07/2024	7.63	519	not visible	Overflow of TS1 Pond occurred after a heavy rain period (160.8mm) in a 48 hour period leading up to the overflow. Pond sediment levels were below the required 20% and no pump failures occurred. Pond and pump capacity could not keep up with the inflows. Discharge is permitted under PKCT's licence conditions.
DP23 - Central Pond	7/06/2024	18/07/2024	18/07/2024	7.42	231	not visible	Overflow of Central Pond occurred after a heavy rain period (160.8mm) in a 48 hour period leading up to the overflow. Pond sediment levels were below the required 20% and no pump failures occurred. Pond and pump capacity could not keep up with the inflows. Discharge is permitted under PKCT's licence conditions.

## PKCT Water Collection System Discharge Points



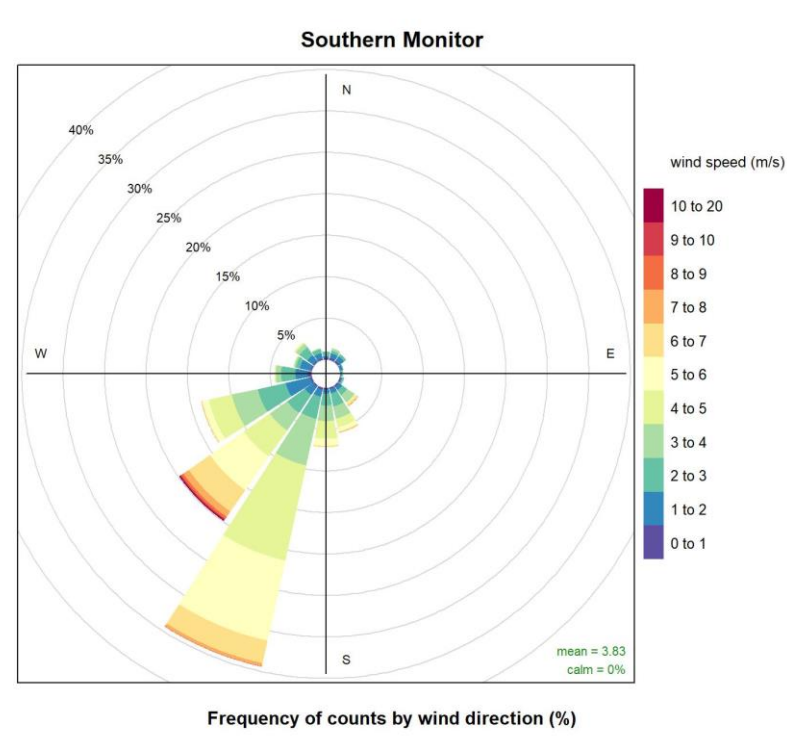
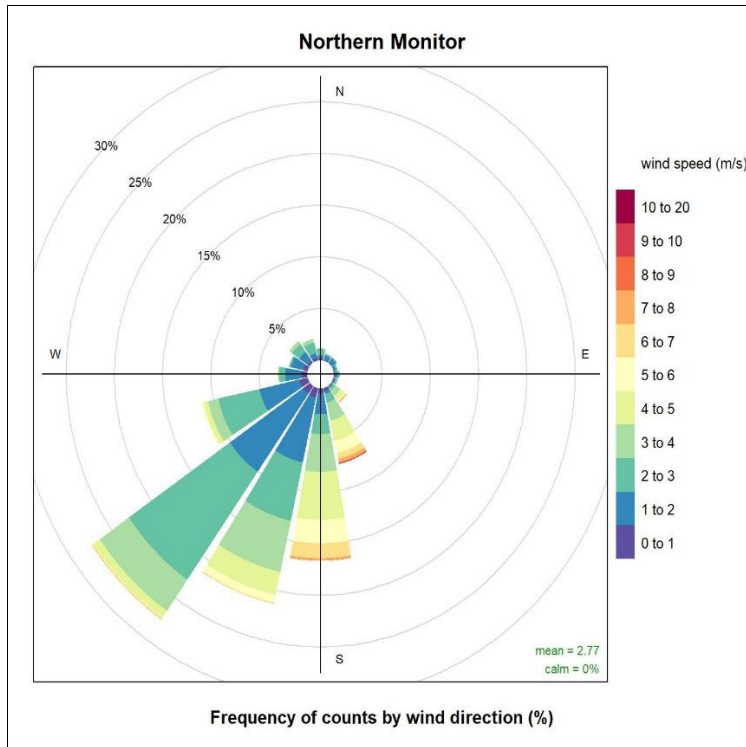


# PORT KEMBLA COAL TERMINAL LTD.



North Wind Rose – June 2024

South Wind Rose – June 2024





# PORT KEMBLA COAL TERMINAL LTD.



RAINFALL (PKCT site gauge)

