

LTD.





Licencee:	Port Kembla Coal Terminal Limited
Environment Protection Licence:	1625
Licence URL:	http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=106587&SYSUID=1&LICID=1625
Location:	Port Kembla Road, Port Kembla Inner Harbour, Wollongong
Postal Address:	PO Box 823, Wollongong East 2502



LTD.



PORT KEMBLA COAL TERMINAL DUST & WEATHER MONITOR LOCATIONS

16th October 2015



EPL No.	PKCT No.	Dust Monitor Location Description
1	P1	25m south of Bulk Products Berth (BPB)
2	P2	40m south of Bulk Products Berth stockyard
3	P3	40m east of Bulk Products Berth stockyard
4	P4	40m east Coal Berth stockyard
5	P5	Northern Pond (Pond No.1)
6	P6	40m west Coal Berth stockyard
7	P7	250m west of Coal Berth stockyard
8	P8	PKCT north truckwash
9	P9	Wollongong Wastewater Treatment Plant
15	P10	North of PKCT Planning Office
17	P11	Entry Gate to BlueScope Ro Ro (Berth 109)
12	R1	157 Church Street (two gauges)
19	R2	Vikings Oval, Wollongong (two gauges)
TBA	R3	Links Seaside Apartments
20	C1	Continuous Dust Monitor 1
21	C2	Continuous Dust Monitor 2

refer PKCT Environment Protection Licence(EPL) No. 1625 (EPA ID No.) Dust Gauges- Environment Protection Licence monitoring sites Sites denoted "P": industrial; "R": residential

- Contir
 - Continuous Dust Monitor Sites- additional
 - (a) BlueScope High Volume Sampler & dust gauge(b) PKCT EPL Monitoring Site R2 (2 gauges)Weather stations

(a) at each continuous dust monitor site (b) PKCT Main Control Room



LTD.



E	PL MONITORING	SITES- INDUSTRIAL					Ca	lendar '	Year 20	017]					ial average:
MONTH				FEB	MAB	APR		JUN		AUG	SEP	ост	NOV	DEC						sperisquare reimonth
EPL No.	Location Gauge Number	analysis: grams/square metre.month		FEB	man	APR	mo	2041	JUL	ΛŪϤ	3EP	001		DEC	Samples	MIN	MEAN	MAX	rolling 12 month average	PKCT assessment criteria
1	P1	Insoluble Solids	2.7	bb	3.0	0.7	2.5	0.5	1.1	1.8	3.4	2.4	2.4	2.4	11	0.5	2.1	3.4	2.1	15.0
	25m South	Ash	1.3	bb	1.3	0.0	1.4	0.4	0.7	1.1	2.1	1.3	2.1	1.4	11	0.0	1.2	2.1		
2	BPB Coal Berth P2	Combustible Matter Insoluble Solids	1.4 5.5	5.3	1.7 5.2	0.7	1.1 1.9	0.1	0.4	0.7	1.3	1.1 6.3	1.6 2.4	1.0 3.6	11 12	0.1	1.0	1.7	1.0 4.1	12.0 15.0
2	40m South of	Ash	2.8	2.7	2.4	0.4	1.3	2.2	1.0	1.3	0.7	3.6	1.3	1.9	12	0.7	1.8	3.6	4.1	15.0
	BPB Stockyard	Combustible Matter	2.7	2.6	2.8	11.3	0.7	0.8	0.3	0.7	0.2	2.7	1.1	1.7	12	0.2	2.3	11.3	2.3	12.0
3	P3	Insoluble Solids	5.1	7.4	7.5	13.1	6.5	7.7	35.1	25.0	9.4	7.0	4.3	6.7	12	4.3	11.2	35.1	11.2	15.0
	40m East of	Ash	3.5	4.4	4.1	1.2	4.4	5.6	26.7	19.9	6.6	4.8	2.8	5.1	12	1.2	7.4	26.7		
4	BPB Stockyard P4	Combustible Matter Insoluble Solids	1.6 2.3	3.0	3.4 7.5	11.9 20.9	2.1	2.1 5.4	8.4 15.5	5.1 85.0	2.8 21.6	2.2	1.5 3.9	1.6 2.5	12	1.5	3.8 15.7	11.9 85.0	3.8 15.7	12.0 15.0
4	≓4 40m East Coal Bertŀ	Ash	0.7	8.2 3.0	1.9	20.9	2.2	0.4 1.8	3.3	18.8	5.6	2.9	1.4	1.2	12 12	2.3	3.6	18.8	15.7	15.0
	Stockyard	Combustible Matter	1.6	5.2	5.6	20.2	5.8	3.6	12.2	66.2	16.0	4.7	2.5	1.3	12	1.3	12.1	66.2	12.1	12.0
5	P5	Insoluble Solids	7.0	8.3	9.5	24.6	3.2	4.9	3.8	3.8	1.1	5.5	3.3	5.9	12	1.1	6.7	24.6	6.7	15.0
	Northern Pond	Ash	2.4	3.1	3.1	0.3	1.3	2.1	1.4	1.8	0.5	2.5	1.2	1.6	12	0.3	1.8	3.1		
	(No.1)	Combustible Matter	4.6	5.2	6.4	24.3	1.9	2.8	2.4	2.0	0.6	3.0	2.1	4.3	12	0.6	5.0	24.3	5.0	12.0
6	P6 40- Mark Carl David	Insoluble Solids	5.6 2.9	12.5	11.4	28.4 0.4	7.2	3.9 1.8	4.8	5.6 3.5	7.6	6.9 3.6	8.0 3.1	14.2 7.1	12	3.9	9.7	28.4	9.7	15.0
	40m West Coal Bert Stockyard	Ash Combustible Matter	2.9	3.2 9.3	2.8 8.6	28.0	4.3	1.8	2.3	2.1	4.4	3.6	3.1 4.9	7.1	12 12	0.4	3.2	28.0	6.5	12.0
7	P7	Insoluble Solids	17.5	37.1	27.7	30.7	4.6	15.1	3.3	2.0	1.6	4.0	1.9	2.4	12	1.6	12.3	37.1	12.3	15.0
	260m West No.2	Ash	15.3	32.1	23.5	0.5	3.5	12.7	2.1	1.3	1.2	2.5	1.0	1.5	12	0.5	8.1	32.1		
	Coalberth	Combustible Matter	2.2	5.0	4.2	30.2	1.1	2.4	1.2	0.7	0.4	1.5	0.9	0.9	12	0.4	4.2	30.2	4.2	12.0
8	P8	Insoluble Solids	6.3	9.7	5.8	4.1	7.3	5.0	17.0	17.6	4.5	7.4	13.5	3.3	12	3.3	8.5	17.6	8.5	15.0
	PKCT North Truckwash	Ash Combustible Matter	2.2	2.3 7.4	1.8 4.0	0.4	1.9 5.4	1.5 3.5	5.4 11.6	5.7 11.9	1.2 3.3	2.5 4.9	4.5 9.0	1.3 2.0	12 12	0.4	2.6 5.9	5.7 11.9	5.9	12.0
9	P9	Insoluble Solids	3.4	3.5	2.5	0.4	2.2	2.1	2.7	1.9	1.9	4.3	3.0	3.4	12	0.4	2.7	5.1	2.7	6.0
Ů	Vollongong	Ash	1.7	1.9	1.1	0.1	1.2	1.2	1.4	1.0	0.8	2.6	1.5	1.7	12	0.1	1.4	2.6	<u> </u>	0.0
	Wastewater TP.	Combustible Matter	1.7	1.6	1.4	0.3	1.0	0.9	1.3	0.9	1.1	2.5	2.2	1.7	12	0.3	1.4	2.5	1.4	4.0
15	P10	Insoluble Solids	9.9	9.7	3.4	3.5	8.4	5.2	9.6	10.4	4.4	8.2	14.9	7.1	12	3.4	7.9	14.9	7.9	15.0
	North of PKCT	Ash	3.6	2.3	0.6	0.7	3.1	2.2	3.6	5.3	1.9	4.3	4.3	3.1	12	0.6	2.9	5.3		
17	Planning Office P11	Combustible Matter Insoluble Solids	6.3 3.1	7.4	2.8 2.8	2.8 0.5	5.3 2.5	3.0 1.4	6.0 1.7	5.1 1.4	2.5 0.4	3.9 4.5	10.6 4.2	4.0 3.5	12 12	2.5 0.4	5.0 2.5	10.6 4.5	5.0 2.5	12.0 6.0
Ir	Entry Gate BlueScop		2.1	3.3	1.9	0.5	1.9	0.9	1.3	1.1	0.4	3.4	2.9	2.7	12	0.4	1.8	3.4	2.0	0.0
		Combustible Matter	1.0	0.9	0.9	0.4	0.6	0.5	0.4	0.3	0.1	1.1	1.3	0.8	12	0.1	0.7	1.3	0.7	4.0
					MON	ITHLY F	REPORT	T: COM	MENT/	ARY ON	RESU	LTS								
		uality limits in the EPL for indus											a has beer	n adopte	d to asses	s agains	t actual re	esults to	facilitate p	performance
SA	MPLE PERIOD	Date Sampled	Date R	esults O	otained	Da	te Publisł			ENTARY (
	January 2017	06/02/2017	1.	4/02/2017 14/02/2017					One Site "P8" marginally outside annual average assessment oriteria for insoluble solids and combustible matter. January dust levels were low. Annual average remains outside criteria as a result of some high monthly readings earlier in the 12 month averaging period.											
	February 2017	06/03/2017	1	6/03/201	,	2	0/03/2017		February	One Site "P8" marginally outside annual average assessment criteria for insoluble solids and combustible matter February dust levels were low. Annual average remains outside criteria as a result of some high monthly readings arlier in the 12 month averaging period. Broken bottle was found when collected at Site P1, possible vandalism.										
	March 2017	31/03/2017	1:	3/04/201	,	2	0/04/2017								ugh not combustible suggesting possible external non PKCT					
April 2017 01/05/2017 05/05/2017 05/05/2017						7	dust sources. Annual average for all other sites remain within criteria. One Site "P8" marginally outside annual average assessment criteria for insoluble solids and combustible matter. April dust levels were low. Annual average remains outside criteria as a result of some high monthly readings													
	May 2017 01/06/2017		+ +	9/06/201	,	1	9/06/2017		earlier in the 12 month averaging period. All sites within assessment criteria.											
	June 2017	30/06/2017		7/07/201			7/07/2017			within ass										
	July 2017	01/08/2017		1/08/201		2	3/08/201	7		within ass										
August 2017 01/09/2017		01/09/2017	2	0/09/201	7	2	:0/09/2017	7	High win	ds from th	e west d	Juring Au	gust.							ustible matter.
	ieptember 2017	03/10/2017	2	20/10/201	,	2	23/10/2017		One site, "P4" marginally outside annual average assessment criteria for insoluble solids and combustible matter. High winds from the west during September. One site, "P4" marginally outside annual average assessment criteria for insoluble solids and combustible matter.											
	October 2017 02/11/2017			20/11/2017	,		20/11/2017	·	High res	ults due to	high rea	ading in A	lugust ca	rrying ov	er through	the annu	ual averag	ge.		
N	Jovember 2017	04/12/2017	1	5/12/2017	,	1	15/12/2017	'	High res	ults due to	high rea	ading in A	lugust ca	rrying ov	er through	the annu	ual averag	je.		ustible matter.
	December 2017	04/01/2018	2	2/01/201	•	2	22/01/2018	>							essment o er through				and comb	ustible matter.

Environment Protection Licence 1625 Monthly Report: December 2017

Publish Date: 22nd January 2018

PORT KEMBLA COAL TERMINAL

LTD.



EP	EPL MONITORING SITES- RESIDENTIAL Calendar Year 2017														annual aver	age: grams per				
		MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC					square n	netre.month
EPL No.	Location Gauge Number	Analysis: grams/square metre.month										No. samples collected	MIN	MEAN	MAX	rolling 12 month average	PKCT assessment criteria			
12	R1	Insoluble Solids	2.6	1.4	1.1	0.4	0.5	0.5	0.8	0.6	0.6	1.8	1.2	1.3	12	0.4	1.1	2.6	1.1	4.0
	157 Church St	Ash	1.5	0.7	0.5	0.1	0.3	0.3	0.7	0.5	0.1	1.0	0.7	0.8	12	0.1	0.6	1.5		
	Wollongong	Combustible Matter	1.1	0.7	0.6	0.3	0.2	0.2	0.1	0.1	0.5	0.8	0.5	0.5	12	0.1	0.5	1.1	0.5	2.0
19	R2	Insoluble Solids	1.9	2.4	4.7	0.9	0.6	0.6	0.3	0.6	0.2	1.8	0.5	1.2	12	0.2	1.3	4.7	1.3	4.0
	Vikings Oval	Ash	1.0	1.5	2.4	0.1	0.4	0.3	0.3	0.4	0.2	1.2	0.3	0.6	12	0.1	0.7	2.4		
	Wollongong	Combustible Matter	0.9	0.9	2.3	0.8	0.2	0.3	<0.1	0.2	<0.1	0.6	0.2	0.6	10	0.2	0.7	2.3	0.7	2.0
TBA	R3	Insoluble Solids	2.7	2.0	1.3	0.5	0.6	0.7	0.8	1.3	0.7	1.5	0.9	1.0	12	0.5	1.2	2.7	1.2	4.0
	Ross Street	Ash	1.1	1.2	0.6	0.1	0.5	0.4	0.6	0.8	0.5	1.0	0.5	0.6	12	0.1	0.7	1.2		
	Wollongong	Combustible Matter	1.6	0.8	0.7	0.4	0.1	0.3	0.2	0.5	0.2	0.5	0.4	0.4	12	0.1	0.5	1.6	0.5	2.0

	MONTHLY REPORT: COMMENTARY ON RESULTS												
Note 1: Assessment criteria	e 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 2017	06/02/2017	14/02/2017	14/02/2017	All sites within assessment criteria									
February 2017	06/03/2017	16/03/2017	20/03/2017	All sites within assessment criteria									
March 2017	31/03/2017	13/04/2017	20/04/2017	R2 within assessment criteria but further testing being undertaken due to high monthly reading									
April 2017	01/05/2017	05/05/2017	05/05/2017	All sites within assessment criteria for April. Further analysis of Site R2 from March indicated coal fraction of sample was <2% with clay accounting for 90%. Results indicate high measured level of dust was not associated with PKCT.									
May 2017	01/06/2017	19/06/2017	19/06/2017	All sites within assessment criteria									
June 2017	30/06/2017	17/07/2017	17/07/2017	All sites within assessment criteria									
July 2017	01/08/2017	21/08/2017	23/08/2017	All sites within assessment criteria									
August 2017	01/09/2017	20/09/2017	20/09/2017	All sites within assessment criteria									
September 2017	03/10/2017	20/10/2017	23/10/2017	All sites within assessment criteria									
October 2017	02/11/2017	20/11/2017	20/11/2017	All sites within assessment criteria									
November 2017	04/12/2017	15/12/2017	15/12/2017	All sites within assessment criteria									
December 2017	04/01/2018	22/01/2018	22/01/2018	All sites within assessment criteria									



LTD.



		SI	ETTLEMENT LA	GOON OVERFLOW: EI	NVIRONMENT PROTECTION LICEN	ICE MONITORING: POINT 16
Environment	Protection Lice	ence: 1625	water qu	ality parameter	EPL Limit (100 percentile)	
Type of Monitoring: water quality			total sus	pH spended solids	monitoring only	
Frequency: dai	ly grab sample v	when discharging		(mg/L)	less than 50	
			oi	l/ grease	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
05/01/2017	14/02/2017	14/02/2017	7.8	8	not visible	EPL compliant
07/02/2017	16/03/2017	20/03/2017	8.5	12	not visible	EPL compliant
08/02/2017	16/03/2017	20/03/2017	8.7	9	not visible	EPL compliant
18/02/2017	16/03/2017	20/03/2017	8.4	27	not visible	EPL compliant
25/02/2017	16/03/2017	20/03/2017	9.4	13	not visible	EPL compliant
26/02/2017	16/03/2017	20/03/2017	9.2	30	not visible	EPL compliant
27/02/2017	16/03/2017	20/03/2017	8.6	33	not visible	EPL compliant
28/02/2017	13/04/2017	20/04/2017	7.2	28	not visible	EPL compliant
01/03/2017	13/04/2017	20/04/2017	7.1	12	not visible	EPL compliant
02/03/2017	13/04/2017	20/04/2017	7.0	18	not visible	EPL compliant
03/03/2017	13/04/2017	20/04/2017	7.3	25	not visible	EPL compliant
04/03/2017	13/04/2017	20/04/2017	7.1	14	not visible	EPL compliant
05/03/2017	13/04/2017	20/04/2017	7.2	<5	not visible	EPL compliant
15/03/2017	13/04/2017	20/04/2017	7.9	10	not visible	EPL compliant
16/03/2017	13/04/2017	20/04/2017	8.5	7	not visible	EPL compliant
17/03/2017	13/04/2017	20/04/2017	7.8	17	not visible	EPL compliant
18/03/2017	13/04/2017	20/04/2017	7.3	13	not visible	EPL compliant
19/03/2017	13/04/2017	20/04/2017	7.3	11	not visible	EPL compliant
23/03/2017	13/04/2017	20/04/2017	7.3	8	not visible	EPL compliant
24/03/2017	13/04/2017	20/04/2017	7.3	31	not visible	EPL compliant
26/03/2017	13/04/2017	20/04/2017	7.2	21	not visible	EPL compliant
30/03/2017	13/04/2017	20/04/2017	7.5	<5	not visible	EPL compliant
31/03/2017	13/04/2017	20/04/2017	7.3	18	not visible	EPL compliant
02/04/2017	05/05/2017	05/05/2017	7.3	16	not visible	EPL compliant
03/04/2017	05/05/2017	05/05/2017	7.3	5	not visible	EPL compliant
04/04/2017	05/05/2017	05/05/2017	7.3	34	not visible	EPL compliant
10/04/2017	05/05/2017	05/05/2017	6.9	<5	not visible	EPL compliant
21/04/2017	05/05/2017	05/05/2017	9.1	<5	not visible	EPL compliant
23/04/2017	05/05/2017	05/05/2017	9.2	~ <5	not visible	EPL compliant
04/05/2017	19/06/2017	19/06/2017	8.6	<5	not visible	EPL compliant
20/05/2017	19/06/2017	19/06/2017	7.3	18.0	not visible	EPL compliant
07/06/2017	17/07/2017	17/07/2017	8.3	15.0	not visible	EPL compliant
10/06/2017	17/07/2017	17/07/2017	7.3	24.0	not visible	EPL compliant
11/06/2017	17/07/2017	17/07/2017	7.2	10.0	not visible	
22/06/2017				9.0	not visible	EPL compliant
22/00/2017	17/07/2017	17/07/2017	7.3			EPL compliant
01/08/2017	20/00/2017	20/00/2047	9.3		ows from LDP16 during July 2017	EDL compliant
	20/09/2017	20/09/2047	9.5	18.0	not visible	EPL compliant
 Date Publishe 	ed" refers to this	s report.				

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 rainfalldepth value of 90 mm over a consecutive 5 day period.



LTD.



		SI	ETTLEMENT LA	AGOON OVERFLOW: EI	NVIRONMENT PROTECTION LICEN	ICE MONITORING: POINT 16			
Environment	Protection Lic			ality parameter	EPL Limit (100 percentile)				
Type of Monitoring: water quality Frequency: daily grab sample when discharging				pН	monitoring only	1			
			total sus	spended solids	less than 50				
				il/ grease	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			
02/09/2017	20/11/2017	20/11/2017	7.0	17.0	not visible	September's results were accidently omitted from last months report. Data EPL compliant			
06/11/2017	20/11/2017	20/11/2017	9.5	31.0	not visible	EPL compliant			
08/11/2017	20/11/2017	20/11/2017	9.0	26.0	not visible	EPL compliant			
20/11/2017	15/12/2017	15/12/2017	8.4	20.0	not visible	EPL compliant			
				No overfl	lows from LDP16 in December 17				
* "Date Publich	ed" refers to this	a report							
Date Publish		s report.							

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.



LTD.



	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. Type of Monitoring: Water quality Frequency: Daily when discharging													
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							
Central Pond: DP23	03/03/2017	16/03/2017	19/06/2017	8.2	450	Not visible	No equipment failures, sediment level within licence limits. Overflow as a result of excessive rain event. Overflow permitted under EPL conditions							
Central Pond: DP23	16/03/2017	25/03/2017	19/06/2017	8.5	2100	Not visible	No equipment failures, sediment level within licence limits. Overflow as a result of excessive rain event. Overflow permitted under EPL conditions							
South Pond: DP25	16/03/2017	25/03/2017	19/06/2017	8.6	770	Not visible	No equipment failures, sediment level within licence limits. Overflow as a result of excessive rain event. Overflow permitted under EPL conditions							



LTD.



Water Collection System- Aerial View



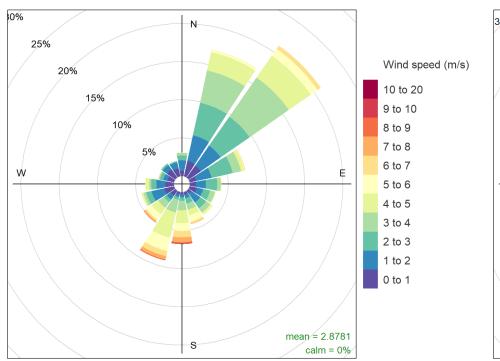
Nb South, Tower 3, Central, Workshop, North, TS1 pond and C7 pump collect site runoff for transfer to the settlement lagoon for treatment, reuse and harbour discharge.



LTD.



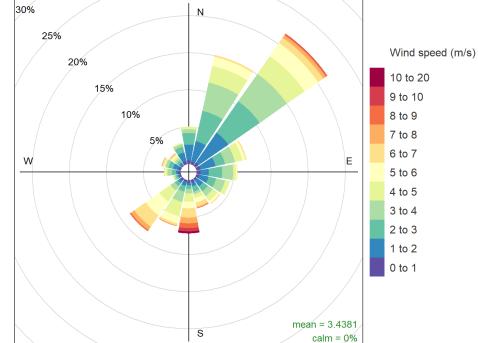
WIND ROSES – December 2017



Northern monitor

Frequency of counts by wind direction (%)

Southern monitor



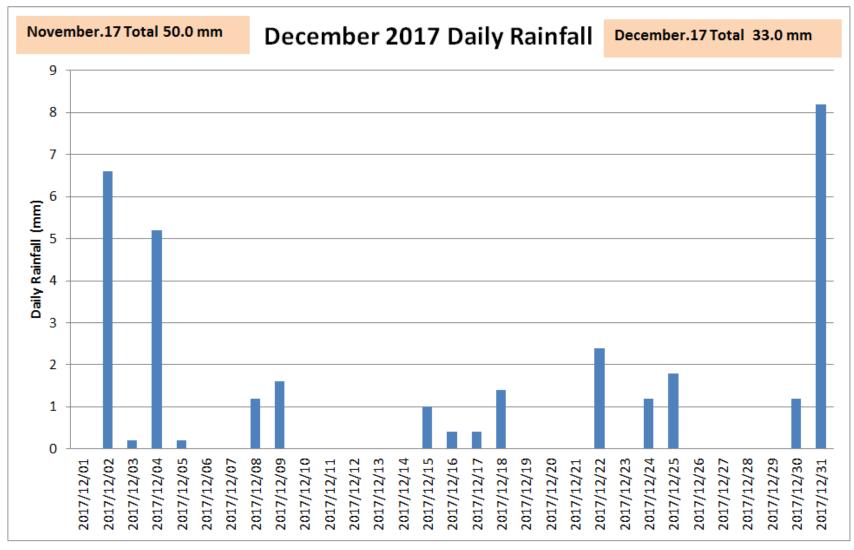
Frequency of counts by wind direction (%)



LTD.



RAINFALL (PKCT site gauge)



Environment Protection Licence 1625 Monthly Report: December 2017

Publish Date: 22nd January 2018