

APPENDIX 3 – ENVIRONMENTAL PERFORMANCE

**APPENDIX 3A – METEOROLOGICAL
MONITORING DATA**

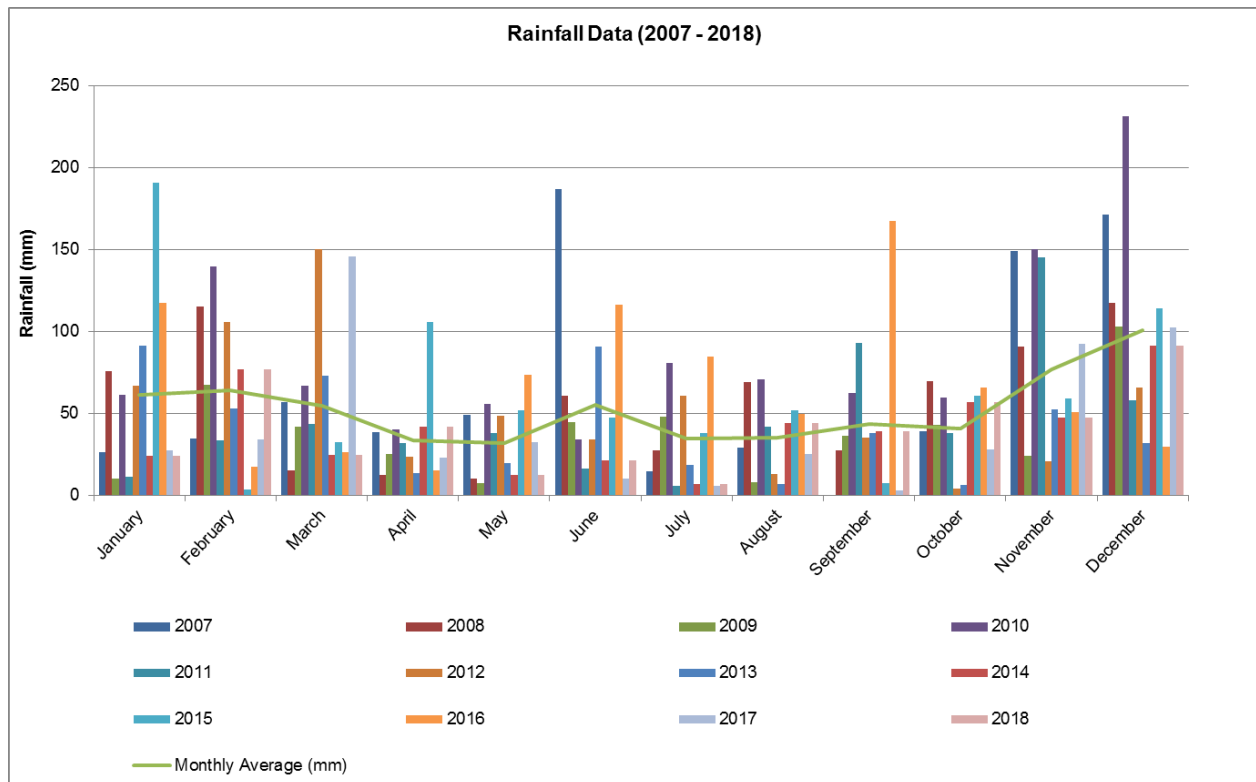
2018 Summary of Rainfall Data

	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Rainfall (mm)	2018	24.4	77	24.6	42.2	12.4	21.6	6.8	44.4	39	56.8	47.4	91.2
Cumulative Rainfall (mm)	2018	24.4	101.4	126	168.2	180.6	202.2	209	253.4	292.4	349.2	396.6	487.8

Historical Rainfall

Monthly	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	Monthly Average (mm)
January	67	26.2	75.8	10.6	61.4	11.4	66.8	91.2	24.4	190.8	117.4	27.8	24.4	61.2
February	76.6	35	115.2	67.8	139.8	33.6	105.6	53	77	3.6	17.8	34.2	77	64.3
March	9.2	57.2	15.6	42.2	67.2	43.4	150	73	24.6	32.4	26.4	146	24.6	54.8
April	20.8	38.8	12.4	25.4	40.6	32	23.8	13.8	42.2	106	15.4	23	42.2	33.6
May	0.8	49.2	10.4	7.4	56	38	48.8	20	12.4	52	73.4	32.4	12.4	31.8
June	37.2	186.8	61	44.8	34	16.6	34.2	90.6	21.6	47.4	116.6	10.4	21.6	55.6
July	51	14.6	27.8	48	81	6.2	60.6	18.6	6.8	38.2	84.8	5.8	6.8	34.6
August	7	29.2	69.4	8.2	70.8	41.8	13.4	6.8	44.4	52	50	25.2	44.4	35.6
September	15.6	0.2	27.8	36.2	62.4	92.8	35.4	38	39	7.8	167.2	3	39	43.4
October	1.8	39.4	70	43	60	38	4.2	6.6	56.8	60.8	65.8	28.4	56.8	40.9
November	70	149.2	91	24.2	150	145	20.8	52.8	47.4	59	50.8	92.6	47.4	76.9
December	NA	171.2	117.4	103.2	231.2	58	65.6	31.8	91.2	114.4	30	102.6	91.2	100.7
Total	357	797	693.8	461	1054.4	556.8	629.2	496.2	487.8	764.4	815.6	531.4	487.8	-

Rainfall Data (2007 - 2018)

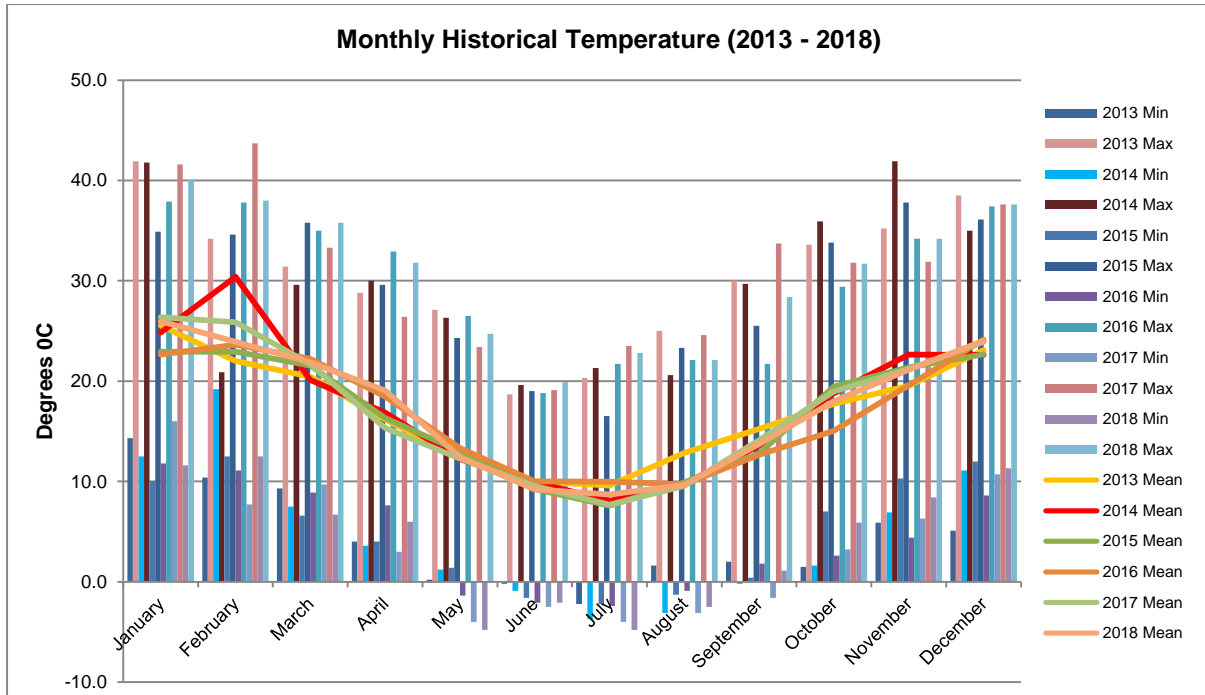


2018 Summary of Temperature Data

2018	Air Temperature (°C at 2 m)			Air Temperature (°C at 10 m)			Air Temperature (°C at 60 m)		
	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean
January	10.9	41.2	26.0	11.6	40.1	25.9	13.5	40.9	26.1
February	11.2	38.5	23.9	12.5	38.0	23.9	13.9	37.5	24.1
March	5.7	36.2	16.0	6.7	35.8	21.9	8.1	34.7	21.7
April	5.2	32.4	13.5	6.0	31.8	19.1	7.8	31.0	19.2
May	0.7	25.0	8.4	1.9	24.7	12.4	3.4	24.1	13.8
June	-3.0	20.1	5.6	-2.1	19.9	9.2	0.3	19.4	10.0
July	-5.9	23.7	3.4	-4.8	22.8	8.7	-2.9	22.1	9.8
August	-3.1	22.6	7.0	-2.5	22.1	9.6	-0.8	21.3	10.1
September	-0.1	29.0	9.6	1.1	28.4	13.7	2.1	28.1	14.0
October	5.0	32.3	13.1	5.7	31.7	17.8	6.6	31.8	17.7
November	7.8	34.6	14.8	8.4	34.2	20.3	10.2	35.0	20.9
December	10.4	37.7	19.3	11.3	37.6	24.0	13.5	37.1	24.6

Historical Temperature Data

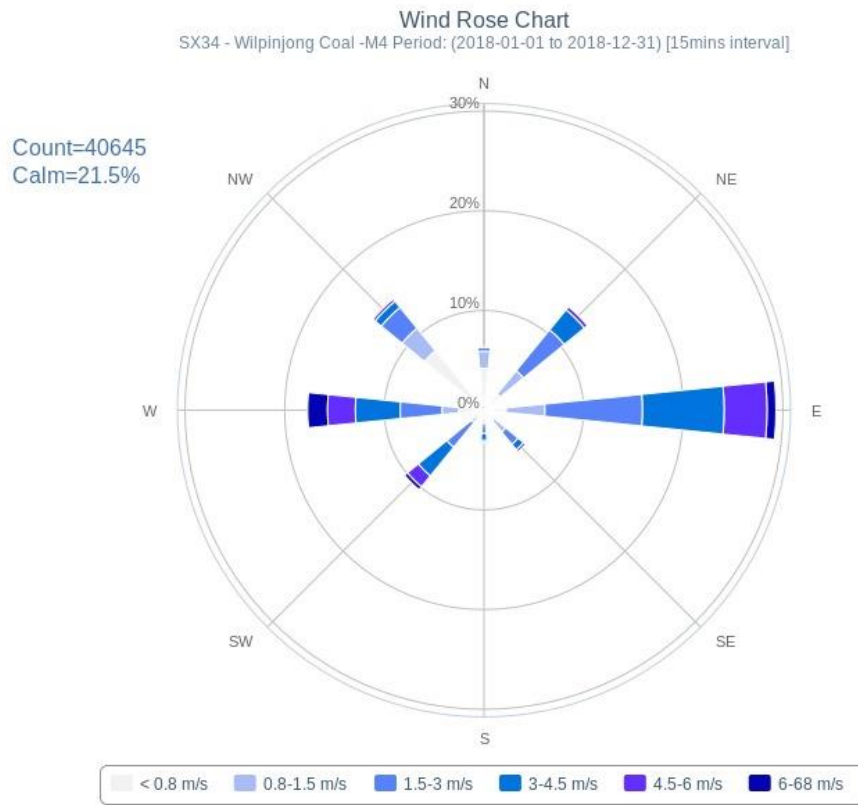
	2013			2014			2015			2016		
	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean
January	14.3	41.9	25.6	12.5	41.8	24.8	10.0	34.9	22.9	11.8	37.9	22.7
February	10.4	34.2	22.0	19.2	20.9	30.4	12.5	34.6	22.9	11.1	37.8	23.6
March	9.3	31.4	20.5	7.5	29.6	20.1	6.6	35.8	21.6	8.9	35.0	22.2
April	4.0	28.8	16.2	3.6	30.0	16.9	4.0	29.6	16.3	7.6	32.9	18.5
May	0.2	27.1	12.4	1.2	26.3	12.2	1.4	24.3	13.0	-1.4	26.5	13.3
June	-0.2	18.7	10.0	-0.9	19.6	9.9	-1.6	19.0	9.2	-2.1	18.8	10.0
July	-2.2	20.3	9.6	-3.7	21.3	8.0	-2.2	16.5	7.6	-2.4	21.7	10.0
August	1.6	25.0	12.9	-3.1	20.6	9.8	-1.3	23.3	9.9	-0.9	22.1	9.7
September	2.0	30.0	15.2	-0.2	29.7	13.6	0.4	25.5	12.8	1.8	21.7	12.7
October	1.5	33.6	17.7	1.6	35.9	18.8	7.0	33.8	19.4	2.6	29.4	15.0
November	5.9	35.2	19.6	6.9	41.9	22.7	10.3	37.8	21.4	4.4	34.2	19.6
December	5.1	38.5	23.1	11.1	35.0	22.6	12.0	36.1	22.7	8.6	37.4	24.1
	2017			2018								
	Min	Max	Mean	Min	Max	Mean						
January	16.0	41.6	26.4	11.6	40.1	25.9						
February	7.7	43.7	25.9	12.5	38.0	23.9						
March	9.7	33.3	21.7	6.7	35.8	21.9						
April	3.0	26.4	15.3	6.0	31.8	19.1						
May	-4.0	23.4	12.3	-4.8	24.7	12.4						
June	-2.5	19.1	9.5	-2.1	19.9	9.2						
July	-4.0	23.5	7.7	-4.8	22.8	8.7						
August	-3.1	24.6	9.6	-2.5	22.1	9.6						
September	-1.6	33.7	14.1	1.1	28.4	13.7						
October	3.2	31.8	19.0	5.9	31.7	18.0						
November	6.3	31.9	21.2	8.4	34.2	21.2						
December	10.7	37.6	23.9	11.3	37.6	24.0						



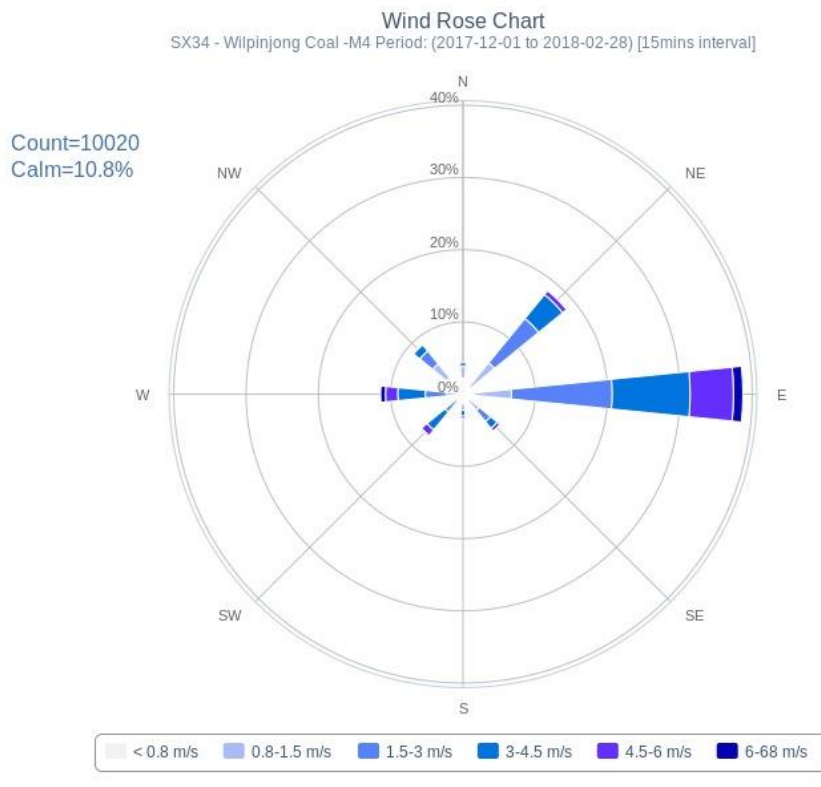
2018 Average Wind Speeds & Directions

Month	Ave Wind Speed (m/s)	Max Wind Speed (m/s)	Ave Wind Dir.
January	1.7	10.3	128.03
February	2.1	10.1	139.61
March	2.3	8.7	143.68
April	1.5	8.7	153.97
May	1.3	8.8	191.71
June	1.3	8.0	160.10
July	1.6	10.3	224.58
August	1.9	9.5	235.19
September	1.8	8.8	187.90
October	2.0	31.6	146.19
November	2.0	10.5	172.40
December	1.6	11.3	160.52

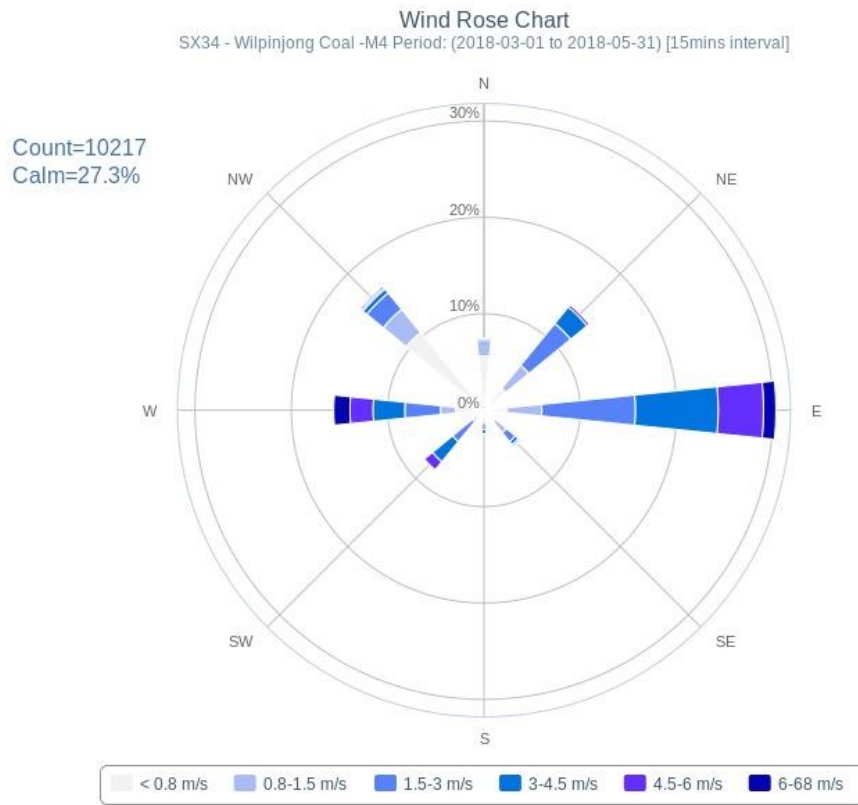
Annual Wind Rose 2018



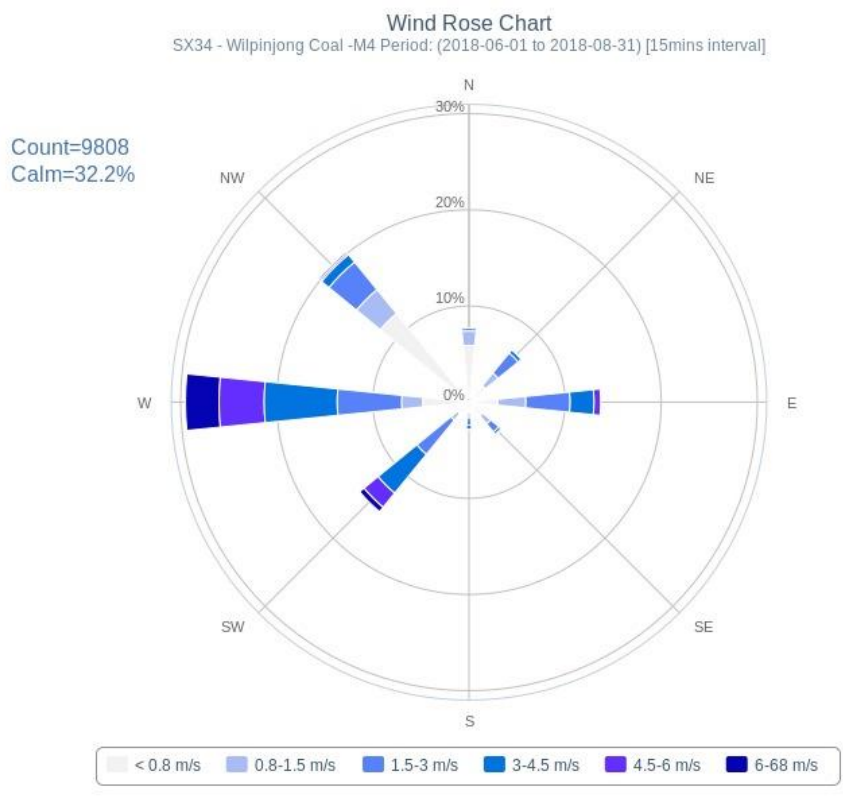
Summer Wind Rose December 2017 - February 2018



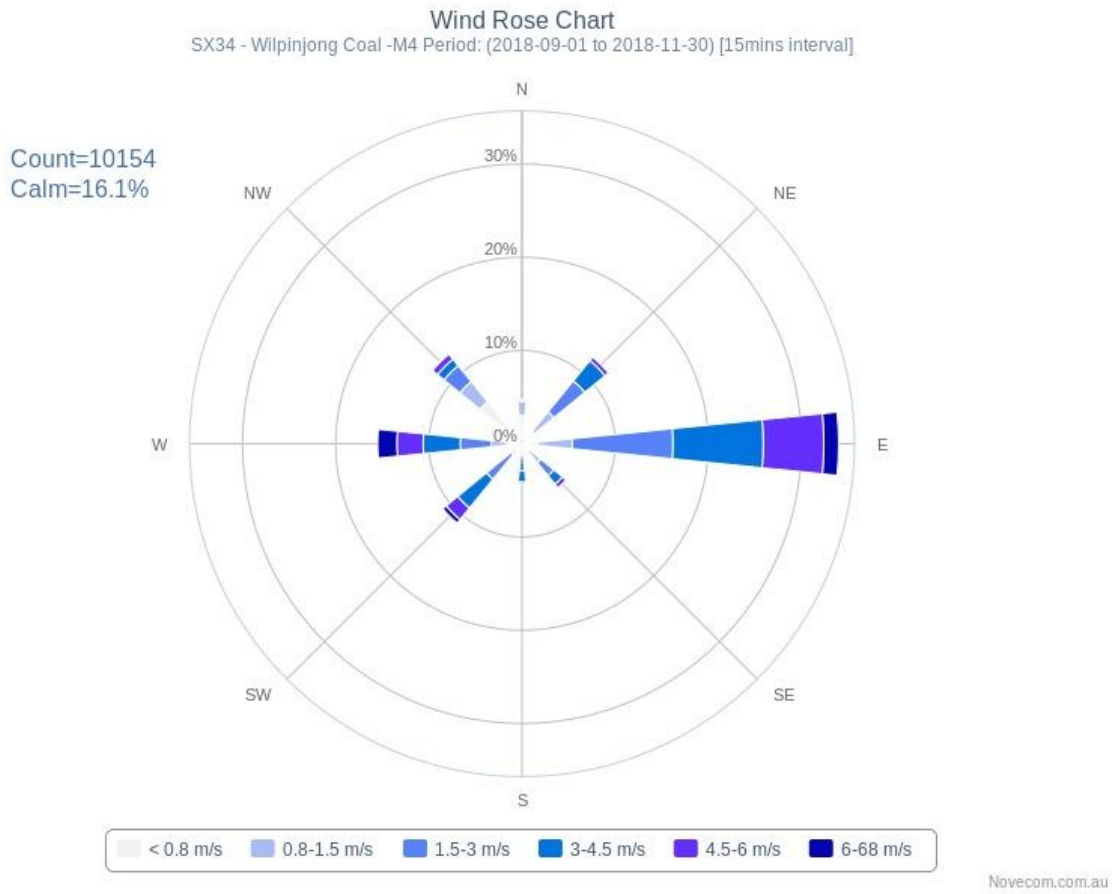
Autumn Wind Rose 2018



Winter Wind Rose 2018



Spring Wind Rose 2018



Location of Meteorological Station

