

**WAMBO COAL  
ENVIRONMENTAL REPORTING  
1 MARCH – 31 MARCH 2018**

5 April 2018

**Environment Protection Licence Number: 529  
Licensee: Wambo Coal Pty Limited, PMB 1, Singleton NSW 2330  
Premises: Wambo Coal Pty Limited, Jerrys Plains Road, Warkworth NSW 2330**

Monitoring Frequency: Once per month  
 Sampling Method: Grab sample  
 Limits: Nil

Date sampled: 5 and 21 March 2018  
 Date obtained: 12 and 28 March 2018  
 Date published: 5 April 2018

Table 1 - WCPL Surface and Mine Water Dam Results

Site	Date	pH	EC ( $\mu\text{S}/\text{cm}$ )	TSS (mg/L)	Comments
SW01	5 March	7.98	968	10	
SW02	5 March	7.22	1310	46	
SW03	5 March				Pool
SW04	5 March				Dry
SW05	5 March				Pool
SW06	5 March				Pool
SW07	5 March				Pool
SW08	5 March				Unsafe access
SW14	21 March	8.90	533	<5	
SW15	5 March	8.76	8680	239	
SW27	5 March				Pool
SW31	21 March	9.08	7220	278	
SW32a	5 March	7.57	710	150	
SW38	21 March	9.13	8640	582	
SW39	5 March				Pool
SW40	5 March				Pool
SW52	21 March	9.39	2120	22	

Monitoring Frequency: Once per month  
Sampling Method: AM19  
Limits: 4g / m<sup>2</sup> / month EPA Guideline

Date sampled: 16 March 2018  
Date obtained: 26 March 2018  
Date published: 5 April 2018

Table 2 - WCPL Depositional Dust Gauges

Site	Date	Ash (g/m <sup>2</sup> )	Total Insoluble Matter (g/m <sup>2</sup> )	AR/IS Ratio	Comment
D11	15 March	1.20	1.30	92.3	
D19	15 March	3.80	5.60	67.8	
D21	15 March	1.90	2.50	76	
D22	15 March	3.00	3.70	81.0	

Monitoring Frequency: Continuous

Sampling Method: AM22

Limits: Nil

Date sampled: Dust readings recorded daily

Date obtained: The next day for the preceding day's result

Date published: 5 April 2018

Table 3 - WCPL PM10 Results

Date of Run	PM01 - Coralie (Sentinex 19)		PM02 - Wambo Road (Caban) (Sentinex 20)		PM03 - Thelander (Sentinex 21)		PM04 - Muller (Sentinex 22)	
	PM10 24 Hour Result (ug/m <sup>3</sup> )	YTD Average	PM10 24 Hour Result (ug/m <sup>3</sup> )	YTD Average	PM10 24 Hour Result (ug/m <sup>3</sup> )	YTD Average	PM10 24 Hour Result (ug/m <sup>3</sup> )	YTD Average
1 March	37.5	32.88	30.3	26.32	34.2	23.55	28	31.49
2 March	28.8	32.82	20	26.22	22.2	23.53	23.7	31.36
3 March	32.9	32.82	29.5	26.27	25.2	23.56	30.8	31.35
4 March	18.7	32.59	NaN*	26.27	16.6	23.44	23.8	31.23
5 March	22	32.43	19.4486	26.16	16.4	23.33	18.3	31.03
6 March	12.9	32.13	8.8	25.89	9.2	23.10	10.7	30.72
7 March	22.7	31.99	12.2	25.68	16.7	23.00	14.7	30.48
8 March	25.1	31.88	9.7	25.44	14.3	22.87	17.5	30.28
9 March	18.1687	31.68	8.4	25.18	13.4729	22.73	18.409	30.11
10 March	26.9	31.61	10.5	24.97	16.6	22.64	20.3	29.97
11 March	20.5	31.45	14	24.81	15.4	22.53	28.6	29.95
12 March	25.7	31.37	22.2618	24.77	19.5	22.49	28.4	29.93
13 March	28.9	31.34	19.4	24.70	21.9	22.48	23.7	29.84
14 March	22.7	31.22	18.8	24.61	19.4	22.43	25.7	29.78
15 March	29.5	31.20	29.1	24.68	16.4	22.35	25.7	29.73
16 March	40.3	31.32	38.3	24.86	35.7	22.53	37	29.82
17 March	34.4	31.36	35.5	25.00	28.5	22.61	38.7	29.94
18 March	39.8	31.47	34	25.12	24.8	22.64	33.2	29.98
19 March	70.1	31.96	50.5	25.45	45.5	22.94	62.1	30.39
20 March	43.4	32.11	41.6	25.66	37.8	23.14	55.3	30.71
21 March	12.1	31.86	12.6	25.49	8.4	22.95	17.8	30.55
22 March	9.6	31.58	8.4	25.28	8.5	22.76	9.6	30.29
23 March	15	31.38	11.5	25.11	10.9	22.62	12	30.07
24 March	17.7	31.22	15.9	25.00	14	22.51	17.1	29.91
25 March	22.1	31.11	21.8	24.96	11.1	22.37	13.6	29.72
26 March	16.3	30.93	13.3	24.82	8.5	22.20	9.2	29.48
27 March	23.5	30.85	14.2	24.69	16.9	22.14	24.7	29.42
28 March	24.5	30.77	21.5	24.66	17.9	22.09	22.2	29.34
29 March	19.2	30.64	18.3	24.58	18.7	22.05	23.1	29.27
30 March	21.1	30.54	21.9	24.55	18.5	22.01	25.4	29.22
31 March	33.6	30.57	30.1	24.61	34.9	22.16	33.8	29.27

\*Unit stopped during storm on 4 March 2018

**Monitoring Frequency: Every blast**  
**Airblast Overpressure Limit: 120 dBL**  
**Ground Vibration Limit: 10mm/s**

**Date sampled: After each blast event**  
**Date obtained: After each blast event**  
**Date published: 5 April 2018**

**Table 4 - WCPL Blast Monitoring Results**

Date & Time	ID	BM02 - Kelly		BM05 - Muller		BM07 - Thelander	
		dBL	mm/sec	dBL	mm/sec	dBL	mm/sec
2018-03-15 10:33:36	HD_1WWA_238	112.5	0.21	104.6	0.86	97.6	0.77
2018-03-15 10:49:12	HD_1WWA_239	107.1	0.07	106.1	0.19	97.6	0.14
2018-03-15 10:42:09	M_27RCA_240	97.1	0.08	99.9	0.15	96.9	0.07
2018-03-19 15:38:34	ME_WMA_244	99.1	0.18	112.0	0.40	105.6	0.21
2018-03-26 15:21:54	M_27_WWA_242	103.1	0.03	106.3	0.29	103.6	0.23
2018-03-28 12:30:15	Montrose WWA 245	99.8	0.07	108.7	1.05	106.7	0.72
2018-03-28 12:54:04	Montrose WWA242	84.6	0.01	93.9	0.11	89.4	0.07

Monitoring Frequency: Continuous  
 Sampling Method: Site Meteorological Station  
 Limits: Nil

Date sampled: Weather readings recorded daily  
 Date obtained: 1 April 2018  
 Date published: 5 April 2018

Table 5 - WCPL Meteorology

Date	Temperature (2m)			Temperature (10m)			Humidity			Solar Radiation		RAIN mm	Wind Speed		
	Min	Average	Max	Min	Average	Max	Min	Average	Max	Average	Max		Min	Average	Max
1 March	20	24.2	29.5	21.4	24.3	28.2	47.6	65.5	90.5	309.7	1071.9	0	0.2	2.9	7
2 March	18.1	22.9	28.5	18.3	22.5	27.5	47.2	68.8	87.3	210.7	1126.8	0	0.5	2.1	5.4
3 March	17.4	25.5	34.2	17.9	25.2	33.5	32.8	67.2	94.8	316.2	1016	0	0.2	1	5.9
4 March	20.6	25.2	35	20.4	24.9	34	39.6	78.1	99.7	236.2	1188.6	27.4	0.2	0.5	7.7
5 March	20.2	22.6	27	19.9	22.3	26.4	64.5	85.1	98.5	96	823	0	0.2	1.4	5.7
6 March	18.1	20.5	23.8	17.9	20.3	23.3	56.1	79.6	96.6	85.2	653.3	6.4	0.7	2.5	5.1
7 March	17.5	21	25.6	17.6	20.7	24.8	42	69	89.6	205	1211.2	0.4	1	2.8	6.5
8 March	15.4	20.8	25.5	16	20.5	24.6	47.9	68.7	92.7	241.6	970	0	1.2	2.8	6.4
9 March	18	21.5	25.9	17.9	21.2	25	48.8	66.1	80.1	183.2	993.6	0	0.5	2.4	5.7
10 March	16.8	21.6	27.3	17.3	21.4	26.3	39.6	65.9	88.8	228.9	1149.1	0	0.3	2.4	5.6
11 March	13.5	20.8	28.1	13.8	20.7	27.3	42	70.4	97.3	325.5	1126.6	0	0.1	1	4
12 March	11.3	20.7	29	11.9	20.6	28	43.4	70.8	98.9	289.8	1044	0	0.2	1.4	4.5
13 March	16	21.9	27.5	16.2	21.6	26.5	48.5	71.7	93.3	267.4	1118.3	0	0.2	2.3	6
14 March	19	24.4	30.5	19.3	24.1	29.8	40.4	68	91.7	286	1043.2	0	0.2	1.4	3.8
15 March	16.5	25.4	35.4	16.9	25.4	34.8	25.2	63.1	97.9	243.1	1004.3	0	0.1	1	5.1
16 March	22.2	25.2	29.8	22	24.8	29	50.7	67.6	79.8	212.5	1090.9	0	0.6	2.1	5.6
17 March	22.4	28.2	37.6	22.4	28	37	18.3	53.9	83.2	289.1	949.7	0	0.1	1.1	5.5
18 March	16.9	27.9	38.6	17.7	28.4	38.1	19.6	51.2	91.8	285.6	936.6	0	0.1	1.8	6
19 March	20	27.9	38.9	21.5	28.2	38.9	17.9	54.3	85.8	283.9	935.5	0	0.1	0.3	4.2
20 March	16.6	24	29.9	17.8	24.3	29.7	39.1	65.7	95.9	251.8	1017.9	0	0	2.1	5.4
21 March	17	20.4	23.1	17.2	20.4	22.8	66.4	80.5	96.1	56.3	420.6	14.6	1.9	3.6	5.6
22 March	16.7	18.5	21.5	16.7	18.6	21.2	67.8	84.5	97.4	106	812.9	9	1	2.7	5.3
23 March	17.1	19.2	22.5	17.1	19.3	22.2	69.7	86.5	97.1	87.2	712.9	9.6	0.9	2	4.8
24 March	18	22.2	28.5	18.3	22.3	28.3	51.1	77.5	94.8	247.6	915.9	0	0.1	0.4	3.2
25 March	16	24.7	32.4	17.2	25.1	32.4	33.9	65.9	98.8	230.2	974	0	0.1	1.7	5.5
26 March	13.8	21.7	26.3	15	22.1	26.1	32.6	68.2	99.5	243.3	972.1	17.8	0.1	2.1	5
27 March	7.8	17.5	24.4	8.5	18	24.2	42.4	67	93.3	229.6	965.1	0	0	1.6	4.4
28 March	13.5	21.4	29	14.6	21.9	28.8	49.5	75.9	98.6	268.4	904.6	0	0.1	0.3	2.9
29 March	14.7	21.3	28.1	15.1	21.6	27.9	50.9	81.7	99.4	228	951.7	0	0	0.8	2.9
30 March	15.4	22.8	32.7	16.1	23.3	32.5	28.9	72.8	99.5	245	892.3	0	0	0.5	3.2
31 March	19.5	23.2	27.6	19.9	23.3	27.3	54.4	73	86.4	196.5	797.1	0	0.7	2	4.2
MONTH	7.8	22.7	38.9	8.5	22.7	38.9	17.9	70.4	99.7	225.3	1211.2	85.2	0	1.7	7.7

