

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

6 June 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: 23 May and 30 May 2018
 Date obtained: 25 May and 6 June 2018
 Date published: 6 June 2018

Table 1 - WCPL Surface and Mine Water Dam Results

Site	Date	pH	EC (µS/cm)	TSS (mg/L)	Comments
SW01	30 May	7.75	1020	5	
SW02	23 May				Pool
SW03	30 May	7.75	2430	7	
SW04	23 May				Dry
SW05	23 May				Pool
SW06	23 May				Pool
SW07	23 May				Pool
SW08	23 May				Unsafe access
SW14	23 May	8.31	609	7	
SW15	30 May	8.92	8900	204	
SW27	23 May				Pool
SW31	23 May	9.04	8440	390	
SW32a	23 May				Dry
SW38	23 May	9.06	8760	220	
SW39	23 May				Pool
SW40	23 May				Pool
SW52	23 May	9.24	2630	22	

Monitoring Frequency: Once per month
Sampling Method: AM19
Limits: 4g / m² / month EPA Guideline

Date sampled: 15 May 2018
Date obtained: 23 May 2018
Date published: 6 June 2018

Table 2 - WCPL Depositional Dust Gauges

Site	Date	Ash (g/m ²)	Total Insoluble Matter (g/m ²)	AR/IS Ratio	Comment
D11	15 May	1.6	2.5	64	
D19	15 May	2.1	2.9	72	
D21	15 May	1.1	1.4	78	
D22	15 May	2.7	3.6	75	

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: 6 June 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 ³)	YTD Average	PM10 24 Hour Result (ug/m ³)	YTD Average	PM10 24 Hour Result (ug/m ³)	YTD Average	PM10 24 Hour Result (ug/m ³)	YTD Average
1 May	18.1	29.32	26	24.72	16.5	21.68	20.7	28.52
2 May	21.6	29.25	26.5	24.73	16.9869	21.64	30.1	28.53
3 May	22.3	29.20	32.6	24.80	23.7	21.66	28.9	28.53
4 May	46.2	29.34	46.4	24.97	38.5	21.80	35.8	28.59
5 May	23.2	29.29	33.3	25.04	19.7	21.78	34.8	28.64
6 May	29.5	29.29	26.2	25.05	26.3	21.82	43.1	28.75
7 May	19	29.21	36.6	25.14	16.5	21.77	26.5	28.74
8 May	27	29.19	36.9	25.23	19.8	21.76	38.4	28.81
9 May	23.1	29.14	36.3	25.32	21.2	21.75	34	28.85
10 May	31	29.16	44.6	25.47	21	21.75	21	28.79
11 May	27.8	29.15	42.6	25.60	18.3	21.72	20.2	28.73
12 May	14	29.03	8.7	25.47	7.2	21.61	9.7	28.58
13 May	15	28.93	12	25.37	8.9	21.51	14.2	28.47
14 May	18.7	28.85	19.4	25.33	14.2	21.46	28	28.47
15 May	21.9	28.80	24.2	25.32	15.5	21.41	34.2	28.51
16 May	30.6	28.81	19.8	25.28	26.3	21.45	37.9	28.58
17 May	24.9	28.78	25.9	25.28	13.9	21.39	32.4	28.61
18 May	24.9	28.75	47.7	25.44	16.1	21.35	39.7	28.69
19 May	22.2	28.71	38.8	25.54	14.4	21.30	24.4	28.66
20 April	19.2	28.64	26.8	25.55	9.4	21.22	13.6	28.55
21 May	25.7	28.62	27.2	25.56	10.1	21.14	14.4	28.45
22 May	16.2	28.53	22.9	25.54	10.5	21.06	16.9	28.37
23 May	16.5	28.45	34.2	25.60	13.2	21.00	27.8	28.37
24 May	27.3	28.44	33.7	25.66	20.4	21.00	25.9	28.35
25 May	30.6	28.45	36.1	25.73	22.8	21.01	35.4	28.40
26 May	25.6	28.43	30.5	25.77	19.8	21.00	39	28.47
27 May	18.6	28.37	39.2	25.86	17.8	20.98	25.7	28.45
28 May	28.2	28.37	40.7	25.96	18.2	20.96	44.1465	28.56
29 May	22.2	28.33	33	26.01	14.7	20.92	22.6	28.52
30 May	11.9	28.22	5.8	25.87	5.2	20.81	4.9	28.36
31 May	7.8	28.08	7.6	25.75	5.1	20.71	7.7	28.22

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: 6 June 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
2018-05-03 15:41:29	ME_WTA_243	105.5	0.19	105.3	0.30	100.4	0.18
2018-05-03 15:50:30	M_27RCA_261	88.9	0.03	102.9	0.20	91.1	0.15
2018-05-03 16:03:27	HP_1WWA_260_B	96.0	0.07	98.3	0.17	94.4	0.15
2018-05-08 14:17:30	MW_Dozerpush_253	103.7	0.09	107.4	0.73	103.0	0.71
2018-05-08 14:25:06	HD_1WWA_262	96.4	0.06	104.7	0.15	99.1	0.12
2018-05-18 15:03:54	M_RCA_263	103.4	0.17	104.9	1.49	98.9	1.68
2018-05-18 15:10:28	M_WRA_267	90.6	0.04	103.9	0.38	96.7	0.32
2018-05-18 15:16:09	M_WMA_266	93.1	0.03	104.6	0.36	94.8	0.43
2018-05-24 09:42:02	M_27WWA_251	93.8	0.06	104.0	0.94	103.1	0.84
2018-05-24 09:37:50	HD_RCA_268	81.7	0.03	100.7	0.07	98.8	0.05
2018-05-29 14:37:27	ME_WTA_269	98.5	0.20	103.4	0.43	94.0	0.20

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

Date sampled: Weather readings recorded daily
 Date obtained: 1 June 2018
 Date published: 6 June 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 May	7.3	15.6	23.8	8.4	16.1	23.3	8.4	76.4	99.1	186	744.5	0	0.1	0.4	3.5
2 May	9.2	15.6	25.3	10.1	16.2	24.8	10.1	79.3	97.8	121	758	0	0.1	0.3	2.6
3 May	14	14.4	15.1	15.1	15.6	16.3	15.1	83.9	85.7	0.3	0	0	0.1	0	0.8
4 May	10.3	20.5	28	13.2	21.3	27.6	13.2	40.8	71.7	145.3	651.1	1.2	0	0	8.2
5 May	3.2	12.9	22.9	4.8	13.9	22.7	4.8	61.1	95.7	187.3	700.7	0	0.1	0.2	3.6
6 May	1.3	12.4	22.2	2.7	13.2	21.6	2.7	71.3	99	182.4	688.5	0	0.1	1	4.5
7 May	4.3	14.1	25.9	5.6	14.8	25.4	5.6	71.8	99.7	177.3	671.9	0	0	0.5	3.3
8 May	5.4	15	25.6	6.2	15.6	25.2	6.2	68.8	97.6	136.4	663.3	0	0.1	0.3	3.2
9 May	6.7	15.4	26.2	7.6	16.1	25.7	7.6	69.5	98	165.1	641.5	0	0	0.4	2.9
10 May	4.7	16.5	25.9	6	17	25.4	6	52.8	96.2	149.8	699.8	0	0.1	2.8	6.9
11 May	9.3	12.4	15.8	9.3	12.2	15.2	9.3	51	65.7	143.9	730.4	0	2.5	4.8	7.7
12 May	9.2	14.9	20.3	10.7	15.2	20	10.7	66.4	90.4	75	579	0	0.2	3.2	7
13 May	7.6	14.2	20.2	9.6	15	19.7	9.6	67.4	93.7	122.5	596.5	0	0	1.3	5.7
14 May	6.2	14.8	19.4	8.1	15.2	18.9	8.1	62.9	89.8	69.6	343.2	0	0.2	1.9	5.4
15 May	4.3	12.3	21.7	5.6	13	21.2	5.6	70	98.1	166.6	638.1	0	0.1	0.4	3
16 May	7.2	13	20.4	8.2	13.7	19.9	8.2	74.3	96.8	131.2	725.8	0	0	1	4.5
17 May	2.9	10.8	20.5	3.8	11.8	20.1	3.8	74.5	98.9	158.7	653.2	0	0	0.2	2.3
18 May	0.1	10.6	22.8	1.6	11.5	22.3	1.6	62.9	97.7	158.8	616.7	0	0.1	0.9	4.5
19 May	0.7	10.8	21.5	1.9	11.7	21	1.9	67.7	94.3	157	603.8	0	0.1	0.2	2.4
20 April	2.3	11.9	20.8	5.1	12.7	20.4	5.1	61.9	97.5	158.6	611.2	0	0	1.8	5.3
21 May	3.9	12.9	22	5.3	13.8	21.6	5.3	59.5	92.4	153.6	595.4	0	0	1.8	6.4
22 May	6.2	14.8	23.4	7.5	15.4	23.1	7.5	58.8	85.5	150.8	578.8	0	0.1	2	5.9
23 May	4	12.3	22.4	5.7	13	21.6	5.7	75.2	96.2	134.7	577.9	0	0	0.2	2.7
24 May	2.1	12.5	22.8	3.4	13.1	22.1	3.4	77.8	99.4	145.3	567.9	0	0	0.5	3.5
25 May	7.9	15.3	21.4	9.1	15.7	20.7	9.1	70.5	94.3	134.3	684.8	0	0	1.3	5.8
26 May	3.9	12.2	21.3	5	13	20.7	5	79.6	98.1	141.3	560.5	0	0.1	0.3	3.1
27 May	4.6	11.2	19.1	5.4	11.8	18.6	5.4	87.8	100	91.2	563.8	0	0.1	0	2.3
28 May l	4.8	12.6	21.8	5.8	13.2	21.2	5.8	78.7	99	101.8	594.6	1	0.1	0.4	2.9
29 May	3.6	13.1	24.5	4.6	13.8	24.2	4.6	71.3	98.8	133.6	528.5	0	0	0.9	4.5
30 May	6.5	14.3	19.5	7.9	14.6	18.9	7.9	64.7	98	131.4	612.9	5.2	0.2	1.5	5
31 May	6.8	11.4	18.6	8	11.7	18.2	8	60.2	78.9	132.5	713.1	0	0.1	1.3	4.9
MONTH	0.1	13.5	28	1.6	14.2	27.6	1.6	68.3	100	136.8	758	7.4	0	1.0	8.2

