

**WAMBO COAL  
ENVIRONMENTAL REPORTING  
1 JANUARY – 31 JANUARY 2020**

March 2020

**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

Table 1 - WCPL Surface and Mine Water Dam Results

Site	Date	pH	EC ( $\mu\text{S}/\text{cm}$ )	TSS (mg/L)	Comments
SW01	29/01/2020				No Flow
SW02	29/01/2020				Dry
SW03	29/01/2020				Dry
SW04	29/01/2020				Dry
SW05	29/01/2020				Dry
SW06	29/01/2020				Dry
SW07	29/01/2020				Dry
SW08	29/01/2020				Dry
SW12	23/01/2020	8.7	6690	32.0	
SW14	23/01/2020	8.6	592	7.0	
SW15	23/01/2020	8.8	9040	64	
SW27	23/01/2020				Dry
SW31	23/01/2020	9.2	5730	157	
SW32a	29/01/2020				Dry
SW38	23/01/202	9.1	8390	54	
SW39	29/01/202				Dry
SW40	29/01/2020				Dry
SW51	23/01/2020				Insufficient Water
SW52	23/01/2020	9.3	1594	663	
Wombat Dam	23/01/2020				Dry
Milk Can Dam	23/01/2020				Dry
Rug Dump Dam	23/01/2020				Insufficient Water
Montrose East 1	23/01/2020				Insufficient Water
Montrose East 2	23/01/2020				Dry

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

Date sampled: 16 January 2020  
Date obtained: 22 January 2020  
Date published: 15 April 2020

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	16 Jan 2020	1.9	2.3	82.6	
D19	16 Jan 2020	5.8	7.7	75.3	
D21	16 Jan 2020	3.3	4.0	82.5	
D22	16 Jan 2020	5.0	6.2	80.7	

Monitoring Frequency: Continuous  
 Sampling Method: AM22  
 Limits: Nil

Date sampled: Continuous  
 Date obtained: Continuous  
 Date published: 13 February 2020

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
1/01/2020	75.1	75.10	99.2	99.20	115.1	115.10	107.6	107.60
2/01/2020	44.3	59.70	54.5	76.85	43.4	79.25	42.3	74.95
3/01/2020	45.5	54.97	57.4	70.37	47.1	68.53	50.0	66.63
4/01/2020	58.3	55.80	92.4	75.88	63.4	67.25	50.2	62.53
5/01/2020	106.1	65.86	132.5	87.20	137.8	81.36	131.4	76.30
6/01/2020	50.6	63.31	42.3	79.71	46.1	75.48	47.2	71.45
7/01/2020	41.2	60.15	50.7	75.57	33.2	69.44	36.7	66.49
8/01/2020	75.4	62.06	70.8	74.97	57.8	67.98	64.9	66.29
9/01/2020	49.9	60.71	44.1	71.54	42.4	65.14	46.1	64.05
10/01/2020	46.8	59.32	48.0	69.19	46.9	63.32	40.1	61.65
11/01/2020	80.8	61.27	78.4	70.02	84.7	65.26	87.7	64.02
12/01/2020	85.3	63.27	56.5	68.90	65.4	65.27	65.6	64.15
13/01/2020	44.7	61.84	34.0	66.21	38.7	63.23	46.3	62.78
14/01/2020	35.5	59.96	27.9	63.48	30.2	60.87	41.4	61.25
15/01/2020	33.6	58.21	31.8	61.36	26.1	58.55	40.6	59.88
16/01/2020	27.1	56.26	22.2	58.92	24.8	56.44	33.4	58.22
17/01/2020	25.8	54.47	25.5	56.95	25.7	54.63	32.5	56.71
18/01/2020	19.3	52.52	17.0	54.73	18.0	52.60	19.1	54.62
19/01/2020	17.7	50.68	12.7	52.52	15.6	50.65	20.2	52.81
20/01/2020	34.6	49.88	30.8	51.43	39.1	50.07	34.1	51.87
21/01/2020	43.2	49.56	42.3	51.00	43.9	49.78	46.2	51.60
22/01/2020	34.9	48.89	34.6	50.25	35.7	49.14	51.0	51.57
23/01/2020	61.5	49.44	68.9	51.06	28.3	48.23	51.8	51.58
24/01/2020	41.7	49.12	43.8	50.76	57.2	48.61	46.3	51.36
25/01/2020	53.9	49.31	44.0	50.49	52.9	48.78	44.5	51.09
26/01/2020	23.6	48.32	21.7	49.38	18.9	47.63	23.9	50.04
27/01/2020	42.6	48.11	41.1	49.08	46.4	47.58	43.2	49.79
28/01/2020	30.5	47.48	32.2	48.47	24.8	46.77	44.7	49.61
29/01/2020	33.8	47.01	31.7	47.90	41.4	46.59	33.4	49.05
30/01/2020	39.1	46.75	34.1	47.44	42.4	46.45	41.8	48.81
31/01/2020	34.9	46.36	35.2	47.04	34.4	46.06	44.0	48.65

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

**Date sampled: Continuous**  
**Date obtained: Continuous**  
**Date published: 15 April 2020**

**Table 4 - WCPL Blast Monitoring Results**

Date & Time	ID	BM02 - Kelly		BM05 - Muller		BM07 - Thelander	
		dBL	mm/sec	dBL	mm/sec	dBL	mm/sec
10/01/2020 12:08	M_27WTA_468	82.6	0.03	111.4	0.57	101.9	0.73
10/01/2020 12:14	M_27WMA_471	80.2	0.08	103.4	0.48	97.7	0.48
10/01/2020 12:17	M_27WRC_467	78.6	0.12	98.9	0.49	96.2	0.29
21/01/2020 14:36	M_27WMA_474	83.3	9.12	104.9	0.46	101.9	0.32
21/01/2020 14:44	M_27WTA_469	92.1	0.04	100.6	0.19	103.9	0.17
28/01/2020 14:00	M_27WMA_475	88.2	0.22	101.4	0.47	96.7	0.40
28/01/2020 14:06	M_27WMA_476	92.8	0.06	100.7	0.25	99.7	0.14

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

Date sampled: continuous  
 Date obtained: continuous  
 Date published: 15 April 2020

Table 5 - WCPL Meteorology

Date	Temperature (2m)			Temperature (10m)			Humidity			Solar Radiation		RAIN	Wind Speed		
	Average	Min	Max	Average	min	Max	Average	Min	Max	Average	Max	Sum (mm)	Average	Min	Max
1/01/2020	26.4	20.0	39.3	26.0	20.1	38.2	52.5	23.1	70.6	337.1	1082.6	0.0	2.1	0.7	6.8
2/01/2020	24.3	21.1	30.0	24.0	21.0	29.0	68.0	48.9	81.5	240.3	1115.9	0.0	2.9	1.1	5.9
3/01/2020	28.8	23.0	38.1	28.6	22.9	37.6	58.2	27.8	80.3	297.5	1093.3	0.0	1.5	0.3	5.9
4/01/2020	34.6	21.6	45.3	35.0	22.2	44.5	38.1	12.4	80.8	351.9	1106.9	0.0	1.9	0.1	5.2
5/01/2020	26.9	20.6	32.6	26.7	20.5	33.5	44.2	29.4	66.9	343.1	1034.6	0.0	3.5	0.2	8.8
6/01/2020	22.0	18.3	26.2	21.9	18.5	25.7	71.2	55.4	86.4	166.5	1030.3	1.2	2.6	0.8	5.3
7/01/2020	27.8	20.7	38.2	27.7	20.7	37.6	61.5	24.1	91.6	298.8	1100.8	0.6	0.4	0.4	4.8
8/01/2020	27.4	22.1	37.6	27.3	22.2	36.6	65.5	30.6	91.8	276.3	1161.9	0.0	2.2	0.2	7.5
9/01/2020	23.3	20.3	25.2	23.2	19.9	25.2	75.8	66.4	97.8	90.8	535.2	4.2	2.4	0.3	5.4
10/01/2020	30.0	22.4	40.6	30.0	22.6	40.5	56.6	23.4	85.9	332.5	1088.3	0.0	0.5	0.2	4.2
11/01/2020	24.5	20.2	34.8	24.6	20.2	35.5	61.6	26.9	78.9	50.9	272.5	0.0	1.9	0.3	5.6
12/01/2020	21.8	18.7	26.5	21.5	18.7	25.6	59.2	36.8	78.0	256.1	1127.7	0.0	3.6	0.9	7.3
13/01/2020	23.2	18.9	29.4	22.9	19.0	28.0	59.7	36.0	78.5	293.7	1238.8	0.0	2.9	1.1	6.9
14/01/2020	24.9	17.6	32.1	24.7	18.4	31.2	61.4	36.6	90.2	348.6	1245.1	0.0	2.6	0.3	7.0
15/01/2020	25.7	19.6	32.3	25.6	19.9	31.5	63.0	37.0	84.4	275.4	1128.3	0.0	1.5	0.4	4.9
16/01/2020	22.9	19.5	27.4	23.1	19.6	27.1	79.6	60.7	98.7	90.3	368.8	12.8	0.7	0.0	6.9
17/01/2020	22.6	20.4	25.9	22.5	20.6	25.4	75.0	60.9	84.8	173.2	929.7	0.2	2.3	0.2	6.2
18/01/2020	21.1	19.5	22.5	21.0	19.5	22.5	87.3	77.2	98.0	98.1	384.5	8.8	1.6	0.7	3.9
19/01/2020	22.8	19.3	28.6	22.7	19.3	28.0	80.8	57.5	98.0	182.2	1135.3	0.6	1.4	0.5	5.2
20/01/2020	26.7	18.2	34.6	26.9	18.4	33.9	64.8	28.0	99.2	312.2	1202.2	14.8	0.0	0.1	4.9
21/01/2020	26.5	17.1	35.2	26.6	18.7	34.7	50.6	18.3	93.8	398.3	1172.9	0.0	1.6	0.1	6.1
22/01/2020	28.9	20.6	38.4	28.8	20.8	38.1	50.6	14.4	83.8	392.9	1178.1	0.0	0.1	0.3	5.2
23/01/2020	31.9	19.7	42.4	32.1	20.3	41.9	45.1	17.6	84.9	332.9	1152.6	1.4	3.5	0.0	26.3
24/01/2020	28.3	24.5	34.8	28.2	24.6	34.1	64.3	45.9	81.8	236.5	1313.6	0.4	0.8	1.4	6.3
25/01/2020	27.2	24.2	33.1	27.0	24.3	32.4	71.1	49.9	81.4	227.4	1236.6	0.0	2.0	0.4	4.6
26/01/2020	28.9	22.7	38.3	28.6	23.3	37.2	64.6	33.1	96.3	346.9	1116.6	0.0	1.1	0.1	8.6
27/01/2020	27.8	21.5	33.9	27.6	21.9	33.3	65.9	41.9	87.5	336.7	1156.1	0.0	1.6	0.2	4.7
28/01/2020	29.4	21.9	40.7	29.4	22.4	40.0	63.0	25.2	89.5	294.9	1132.7	0.4	0.3	0.1	8.8
29/01/2020	26.2	23.3	30.6	26.1	23.5	29.8	74.0	56.1	84.5	193.5	1293.1	0.0	2.8	1.0	6.6
30/01/2020	26.8	21.0	34.5	26.6	21.2	33.9	67.8	38.3	89.1	328.9	1118.7	0.0	2.0	0.4	5.8
31/01/2020	31.3	20.7	42.2	31.2	21.2	41.7	59.0	22.7	95.8	358.8	1107.3	0.0	0.7	0.1	5.0
	<b>26.5</b>	<b>17.1</b>	<b>45.3</b>	<b>26.4</b>	<b>18.4</b>	<b>44.5</b>	<b>63.2</b>	<b>12.4</b>	<b>99.2</b>	<b>266.6</b>	<b>1313.6</b>	<b>45.4</b>	<b>1.8</b>	<b>0.0</b>	<b>26.3</b>

