

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

April 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 (µS/cm)	TSS (mg/L)	Comments
SW01	6/03/2020	6.9	755	22	
	26/03/2020	7.1	847	12	
SW02	6/03/2020	6.9	677	<5	
	26/03/2020	7.6	890	12	
SW03	6/03/2020	6.9	661	<5	
	26/03/2020	7.2	966	10	
SW04	6/03/2020				Dry
	26/03/2020				No Flow
SW05	6/03/2020				No Flow
	26/03/2020				No flow
SW06	6/03/2020	6.6	450	<5	
	26/03/2020	7.2	231	169	
SW07	6/03/2020				No flow
	26/03/2020	7.4	766	8	
SW08	6/03/2020				Unsafe Access
	26/03/2020	7.6	263	61	
SW12	18/03/2020	8.8	5650	12	
SW14	18/03/2020	8.0	543	18	
SW15	6/03/2020	8.6	3780	79	
SW27	6/03/2020				No Flow
	26/03/2020	7.7	417	416	
SW31	18/03/2020	8.9	3690	64	
SW32a	6/03/2020	7.7	504	330	
	26/03/2020	7.9	333	658	
SW38	18/03/2020	8.8	5240	14	
SW39	6/03/2020				No Flow
	26/03/2020				No Flow
SW40	6/03/2020	6.8	650	<5	
	26/03/2020	7.0	878	10	
SW51	18/03/2020	8.1	518	193	
SW52	18/03/2020	8.7	669	33	
Wombat Dam	6/03/2020	8.8	822	29	
Milk Can Dam	6/03/2020	8.0	1328	66	
Rug Dump Dam	6/03/2020	8.3	417	515	
Montrose East 1	6/03/2020	9.2	288	110	
Montrose East 2	6/03/2020	8.1	400	44	

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

Date sampled: 16 March 2020
Date obtained: 22 March 2020
Date published: 16 April

Table 2 - WCPL Depositional Dust Gauges

Site	Date	Ash (g/m ²)	Total Insoluble Matter (g/m ²)	AR/IS Ratio	Comment
D11	16-Mar-20	1.6	2.2	72.73	
D19	16-Mar-20	3.1	4.7	65.96	
D21	16-Mar-20	1.4	1.9	73.68	
D22	16-Mar-20	2.5	3.3	75.76	

Monitoring Frequency: Continuous
 Sampling Method: AM22
 Limits: Nil

Date sampled: Continuous
 Date obtained: Continuous
 Date published: 16 April 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 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
1/03/2020	22.0	35.58	19.8	34.09	15.6	33.31	20.8	35.77
2/03/2020	18.2	35.30	14.9	33.78	18.2	33.06	15.3	35.44
3/03/2020	23.4	35.11	23.7	33.62	21.6	32.87	29.9	35.35
4/03/2020	20.0	34.88	14.1	33.32	13.5	32.57	23.1	35.16
5/03/2020	12.7	34.54	9.8	32.96	9.6	32.21	14.4	34.84
6/03/2020	8.7	34.15	6.5	32.56	8.4	31.84	8.4	34.44
7/03/2020	17.4	33.90	12.9	32.26	15.7	31.60	15.2	34.15
8/03/2020	15.4	33.62	11.3	31.95	15.1	31.35	20.3	33.95
9/03/2020	20.3	33.43	12.1	31.67	11.4	31.06	20.4	33.75
10/03/2020	17.3	33.20	12.8	31.40	12.8	30.79	24.1	33.62
11/03/2020	23.5	33.06	18.4	31.21	16.2	30.58	21.1	33.44
12/03/2020	28.1	32.99	16.5	31.01	16.3	30.38	26.0	33.34
13/03/2020	18.0	32.79	17.4	30.82	16.5	30.19	24.8	33.22
14/03/2020	13.0	32.52	12.7	30.58	9.6	29.91	16.5	32.99
15/03/2020	14.0	32.27	11.8	30.33	12.1	29.67	22.4	32.85
16/03/2020	7.2	31.94	6.4	30.01	5.8	29.35	12.6	32.59
17/03/2020	12.7	31.69	9.1	29.74	9.8	29.09	17.0	32.38
18/03/2020	16.9	31.50	15.2	29.55	15.6	28.92	27.1	32.32
19/03/2020	19.8	31.36	23.8	29.48	20.7	28.81	24.9	32.22
20/03/2020	22.7	31.25	37.9	29.59	19.5	28.69	21.4	32.09
21/03/2020	35.4	31.30	32.3	29.62	35.9	28.78	40.6	32.19
22/03/2020	27.4	31.25	34.3	29.68	28.1	28.77	32.2	32.19
23/03/2020	29.3	31.23	23.5	29.60	21.3	28.68	28.7	32.15
24/03/2020	23.5	31.14	19.6	29.48	17.8	28.55	25.3	32.07
25/03/2020	16.7	30.97	15.6	29.32	11.5	28.35	16.6	31.89
26/03/2020	10.2	30.73	8.6	29.08	8.7	28.12	10.1	31.63
27/03/2020	20.6	30.61	13.1	28.90	15.0	27.97	16.0	31.45
28/03/2020	19.5	30.48	10.2	28.68	14.7	27.81	19.5	31.32
29/03/2020	15.8	30.32	16.9	28.55	13.3	27.65	20.6	31.20
30/03/2020	10.7	30.10	10.0	28.35	7.1	27.42	12.5	30.99
31/03/2020	14.0	29.92	13.2	28.18	11.0	27.24	12.3	30.78

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

Date sampled: Continuous
 Date obtained: Continuous
 Date published: 16 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
2 Mar 2020 15:57	M_27WRC_485	93.2	0.12	92.6	0.35	95.5	0.19
6 Mar 2020 12:59	M_27WMA_488	87.4	0.02	94.8	0.08	93.8	0.06
6 Mar 2020 13:02	M_27WMA_489	98.1	0.08	100.6	0.33	94.7	0.29
19 Mar 2020 15:34	M_27WRC_494	81.2	0.24	115.8	0.77	111.7	0.51
	M_27WMA_490						
	M_27WMA_489_2						
19 Mar 2020 15:41	M_27WMA_487	79.9	0.22	104.8	0.68	101.3	0.49
26 Mar 2020 15:40	M_27WMA_491	97.1	0.39	86.4	0.01	74.3	0.02

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

Date sampled: continuous
 Date obtained: continuous
 Date published: 16 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
1/03/2020	24.7	17.0	33.9	24.9	17.7	33.7	67.5	30.9	98.7	315.6	1055.5	0.0	1.0	0.1	5.1
2/03/2020	26.2	15.3	36.8	26.4	15.8	36.4	59.0	22.8	95.6	310.0	1187.9	0.0	1.2	0.1	6.1
3/03/2020	21.1	19.6	23.2	21.1	19.7	23.1	79.4	69.8	91.9	60.5	320.6	0.8	1.9	0.9	3.0
4/03/2020	22.1	19.3	25.1	22.2	19.3	25.1	82.5	68.6	98.5	83.1	551.4	0.8	2.1	0.8	4.5
5/03/2020	21.3	19.9	22.5	21.3	20.0	22.4	95.7	81.7	99.6	41.2	181.7	31.0	0.8	0.1	2.1
6/03/2020	24.6	20.7	30.4	24.6	20.8	30.1	80.2	50.2	99.9	291.3	1059.5	13.8	1.8	0.1	5.1
7/03/2020	20.5	17.3	23.5	20.6	17.7	23.2	77.9	63.7	91.4	121.2	939.4	0.4	1.9	0.3	3.8
8/03/2020	19.6	17.2	22.7	19.6	17.4	22.3	76.4	61.2	90.8	111.1	897.7	0.0	1.6	0.3	3.6
9/03/2020	19.1	15.9	22.3	19.2	16.3	22.0	76.7	60.9	95.1	113.9	685.1	0.0	2.0	0.4	5.6
10/03/2020	19.7	15.8	25.2	19.8	16.3	24.6	70.6	47.1	92.9	248.0	1136.8	0.0	1.9	0.5	5.1
11/03/2020	19.1	13.9	24.1	19.2	14.2	23.6	75.2	49.3	97.9	261.5	1126.4	0.0	2.2	0.1	6.5
12/03/2020	19.8	14.3	25.6	19.9	14.7	25.1	69.8	38.9	96.4	257.3	1139.3	0.0	1.9	0.1	5.5
13/03/2020	19.4	11.1	26.9	19.7	11.5	26.6	70.7	39.9	98.9	313.4	1072.1	0.0	0.6	0.1	4.0
14/03/2020	15.4	12.2	20.3	15.6	12.6	20.1	88.0	68.9	99.7	72.7	463.5	6.2	1.7	0.1	6.1
15/03/2020	17.4	13.0	22.3	17.4	13.7	21.8	72.2	55.1	94.0	235.9	1136.1	0.0	2.5	1.1	5.0
16/03/2020	17.9	15.5	22.4	17.9	15.4	22.1	82.8	62.5	97.9	194.6	949.5	4.4	2.3	0.6	4.4
17/03/2020	18.0	13.9	22.2	18.2	15.0	21.8	82.2	61.5	98.7	179.2	993.2	0.8	1.2	0.1	4.9
18/03/2020	18.5	10.7	26.3	18.7	11.2	25.8	76.6	44.2	100.0	301.9	1012.2	0.0	0.1	0.0	2.1
19/03/2020	20.8	10.9	32.0	21.2	11.4	32.0	67.5	29.8	99.3	296.4	970.1	0.0	0.5	0.1	3.7
20/03/2020	24.5	13.8	33.7	25.0	14.5	33.5	55.4	27.5	96.7	291.8	960.9	0.0	2.5	0.1	6.0
21/03/2020	21.8	14.9	27.5	22.1	15.6	27.1	68.0	47.1	94.9	272.4	1025.9	0.0	1.4	0.1	5.1
22/03/2020	23.5	18.0	31.7	23.5	18.4	31.5	67.0	29.5	95.4	259.8	970.1	0.0	0.7	0.1	5.0
23/03/2020	20.7	19.0	22.9	20.6	19.1	22.7	65.3	56.8	77.6	126.8	883.5	0.0	2.5	1.0	5.1
24/03/2020	20.6	16.6	25.6	20.7	17.2	25.1	69.5	52.2	88.7	184.9	976.6	0.0	1.5	0.6	4.2
25/03/2020	18.6	13.8	25.0	18.8	14.2	24.6	89.1	59.0	99.8	123.9	718.1	18.0	0.8	0.0	5.4
26/03/2020	17.7	16.3	19.1	17.8	16.2	19.2	93.1	79.0	100.0	63.3	313.3	26.6	1.5	0.3	3.6
27/03/2020	18.5	14.9	22.5	18.7	15.7	22.4	79.4	54.1	98.8	132.2	650.3	0.4	1.8	0.1	4.9
28/03/2020	17.7	11.9	22.5	17.9	12.7	22.1	85.3	59.8	100.0	149.6	874.9	0.2	1.2	0.2	4.5
29/03/2020	21.2	17.9	26.7	21.2	18.1	26.2	80.5	56.0	96.8	234.4	1024.5	0.2	0.5	0.2	2.5
30/03/2020	19.2	16.1	22.7	19.5	16.4	22.7	89.6	71.2	99.7	85.6	480.0	6.2	1.5	0.1	5.1
31/03/2020	21.2	13.5	28.7	21.4	13.7	28.2	77.6	44.5	100.0	260.1	943.9	0.2	0.3	0.1	3.6
	20.3	10.7	36.8	20.5	11.2	36.4	76.5	22.8	100.0	193.3	1187.9	110.0	1.5	0.0	6.5

