

**WAMBO COAL  
POLLUTION MONITORING DATA  
1 AUGUST 2020 – 31 AUGUST 2020**

**AUGUST REPORT**

Published 1 September 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**

The following pollution monitoring data is published as a requirement of the Wambo Environmental Protection Licence (EPL) 529. A link to EPL529 can be found on the Environmental Protection Authority (EPA) Public Register. A link to the EPA's public register can be found at: <https://www.epa.nsw.gov.au/licensing-and-regulation/public-registers/about-prpoeo>

Monthly interim reports will be provided on a fortnightly basis until a final monthly report is produced when all monthly data is available.

The location of each sampling point is provided in 'Plan 2672-2' at the end of this document.

### Monitoring Data

**Surface and Mine Water Dam Monitoring**

**Monitoring Frequency: Once per month**

**Sampling Method: Grab sample**

**Limits: Nil**

Table 1 - WCPL Surface and Mine Water Dam Results

EPL ID	Site ID	Date	pH	EC ( $\mu$ S/cm)	TSS (mg/L)	Comments
Point 24	SW01					Lab analysis yet to be received
Point 25	SW02					
Point 26	SW03					
Point 27	SW04					
Point 28	SW05					
Point 29	SW06					
Point 30	SW07					
Point 31	SW08					
Point 32	SW14					
Point 33	SW15					
Point 34	SW27a					
Point 35	SW31					
Point 36	SW32a					
Point 37	SW38					
Point 38	SW12					
Point 39	SW39					
Point 40	SW40					
Point 41	SW41					
Point 46	SW52					
Point 47	Wombat Dam					
Point 48	Milk Can Dam					
Point 49	Rug Dump Dam					
Point 50	Montrose East 1					
Point 51	Montrose East 2					

**Water Discharge Monitoring**

**Monitoring Frequency:** Continuous during discharge (EC, pH, Turbidity)  
 Daily during discharge (TSS, Volume)

**Sampling Method:** In line instrumentation (EC, pH Turbidity)  
 Grab sample (TSS)

**Limits:** pH- 6.5 to 9.5  
 TSS – 120  
 Volume – 250ML/day

**Date sampled:** Continuous  
**Date obtained:** Continuous

Table 2 - WCPL Discharge Monitoring

Site	Date	pH	TSS (mg/L)	Turbidity (NTU)	Volume (ML/day)	Comments
Point 4						No Discharges
Point 19						No Discharges

**Sewerage Treatment Monitoring**

**Monitoring Frequency:** Quarterly during discharge

**Sampling Method:** Grab sample

**Limits:** Nil

**Date sampled:** No monitoring in August  
**Date obtained:** No monitoring in August

Table 3- WCPL Discharge Monitoring

EPL ID	Site ID	Date	pH	Faecal Coliforms	Comments
Point 18	STPD1				No monitoring in August
Point 42	STPD2				No monitoring in August
Point 52	STP2				No monitoring in August

**PM10 Monitoring**

Monitoring Frequency: Continuous

Sampling Method: AM22

Limits: Nil

Date sampled: Continuous

Date obtained: Continuous

Table 4 - WCPL PM10 Results

Date of Run	PM01 - Coralie (EPA13)		PM02 - Wambo Road (Caban) (EPA14)		PM03 - Thelander (EPA15)		PM04 - Muller (EPA16)	
	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
1/08/2020	10	21.43	9.8	20.91	5.3	17.40	9.4	21.67
2/08/2020	12.2	21.39	13.9	20.88	7.0	17.35	14.2	21.64
3/08/2020	16	21.36	22.7	20.88	6.2	17.30	7.7	21.57
4/08/2020	15.6	21.33	13.8	20.85	5.9	17.24	8	21.51
5/08/2020	13.9	21.30	16.5	20.83	3.6	17.18	6.9	21.44
6/08/2020	14.6	21.27	15.6	20.81	8.7	17.14	17.8	21.42
7/08/2020	19	21.26	7.9	20.75	7.7	17.09	27.8	21.45
8/08/2020	6.1	21.19	6.5	20.69	1.2	17.02	5	21.38
9/08/2020	4.8	21.12	4.7	20.61	0.7	16.95	3.2	21.29
10/08/2020	12	21.07	9.4	20.56	4.4	16.89	10.1	21.24
11/08/2020	13.2	21.04	9.5	20.51	8.9	16.85	15.1	21.21
12/08/2020	14.6	21.01	15.9	20.49	10.6	16.82	14.1	21.18
13/08/2020	11.1	20.97	9.1	20.44	5.8	16.77	12.8	21.14
14/08/2020	15	20.94	13.3	20.41	5.1	16.72	7.9	21.09
15/08/2020	6.8	20.88	6.2	20.35	2.5	16.66	5.8	21.02
16/08/2020	6.8	20.82	10.5	20.31	1.5	16.59	4.7	20.94
17/08/2020	7.8	20.76	11.9	20.27	1.5	16.52	4.6	20.87
18/08/2020	10.6	20.71	14.8	20.25	2.6	16.46	5.5	20.81
19/08/2020	62.8	20.90	77.2	20.49	32.9	16.53	36.2	20.87
20/08/2020	22.7	20.90	20.3	20.49	11.0	16.51	18.4	20.86
21/08/2020	11.8	20.87	15.4	20.47	2.3	16.45	5.7	20.80
22/08/2020	8.6	20.81	5.6	20.41	1.9	16.38	4.6	20.73
23/08/2020	11.4	20.77	7.1	20.35	2.4	16.32	5.3	20.66
24/08/2020	10.5	20.73	16.6	20.33	2.5	16.26	5.7	20.60
25/08/2020	14.1	20.70	13.8	20.31	15.6	16.26	15.2	20.57
26/08/2020	19.9	20.70	23.2	20.32	11.1	16.24	14.6	20.55
27/08/2020	19.1	20.69	27.3	20.35	7.1	16.20	7.8	20.49
28/08/2020	15.9	20.67	20.2	20.35	8.1	16.16	17.8	20.48
29/08/2020	19.8	20.67	23.5	20.36	12.4	16.15	23.3	20.49
30/08/2020	24.7	20.68	31.8	20.41	14.8	16.14	17.8	20.48
31/08/2020	29.7	20.72	33.6	20.46	20.2	16.16	26.3	20.51

\*NaN due to power outage >75% of data collection period

**Blast Monitoring**

**Monitoring Frequency:** Every blast

**Airblast Overpressure Limit:** 120 dBL  
 115 dBL (5% of blast each year)

**Ground Vibration Limit:** 10mm/s  
 5mm/s (5% of blast each year)

**Date sampled:** Continuous

**Date obtained:** Continuous

**Table 5 - WCPL Blast Monitoring Results**

Date & Time	ID	BM02 – Kelly (EPA10)		BM05 – Muller (EPA11)		BM07 – Thelander (EPA12)	
		dBL	mm/sec	dBL	mm/sec	dBL	mm/sec
1/8/2020 @ 1004	WMA_506_2a2 part 1 WRC_515	92.5	0.21	101.1	0.48	96.9	0.27
6/8/2020 @ 1506	WMA_506_2a2 part 2	84.3	0.19	95.1	0.43	92.6	0.29
12/8/2020 @ 1501	WTA_500_4c	81.9	0.26	100.2	0.45	95.5	0.48
20/8/2020 @ 1504	WMA_506_2a2 part 3&4	96.0	0.26	91.0	0.39	87.7	0.40
28/8/2020 @1203	WMA_513_123	82.4	0.26	102.4	0.52	101.9	0.32

**Refer to Annual Blasting Report for Annual compliance limits**

**Meteorological Monitoring**  
**Monitoring Frequency: Continuous**  
**Sampling Method: Site Meteorological Station EPA17**  
**Limits: Nil**

**Date sampled: continuous**

**Date obtained: continuous**

**Table 6 - WCPL Meteorology**

Date	Temperature (2m)			Temperature (10m)			Humidity			Solar Radiation		RAIN	Wind Speed			Wind Direction at 10m	Sigma Theta		
	Average	Min	Max	Average	Min	Max	Average	Min	Max	Average	Max	Sum (mm)	Average	Min	Max	Average	Average	Max	Min
1/08/2020	9.2	1.5	18.8	9.6	1.6	18.5	82.2	42.6	100	187.9	713.1	0	0.6	0	3.5	303	19.8	94.4	7.6
2/08/2020	9.5	0.6	21.2	10	0.9	20.8	78.3	32.9	100	190.4	720.1	0.2	0.5	0	3.1	291	18.3	89.3	3.6
3/08/2020	11.7	1.7	20.7	12.1	2.2	20.5	69.5	32.3	100	173.4	739.5	0	1.5	0.1	5.2	305	19.2	76	6.7
4/08/2020	14.1	3.7	21.7	14.7	5.2	21.4	56.3	28.1	99.2	189	713.3	0	2.2	0.2	6.5	295	15.5	27.2	6.4
5/08/2020	9.5	1.6	15.9	10.2	3.5	15.5	58.6	30.5	99.4	193.6	713.4	0	2.9	0.2	6.3	301	15.5	51.9	7.3
6/08/2020	8.5	0.4	16.6	8.9	2.4	16.2	62.4	29.3	94.3	193.8	714.3	0	1.4	0	4.5	301	16.6	51.6	4.2
7/08/2020	9.5	5.2	11.1	9.8	5.8	11.2	88.8	68.5	100	17.7	106	6.4	1.2	0.1	2.8	155	25.7	73.5	11
8/08/2020	11.2	6.7	17.2	11.6	7	16.8	85.4	59.1	100	99.9	707.9	1.2	1.4	0.1	3.8	314	19.8	74.4	8.7
9/08/2020	10.2	6.9	14.6	10.2	7.2	14.2	73.8	51	98.9	129.8	709.6	3.4	3.3	0.7	5.8	299	16.3	34.7	10.5
10/08/2020	11.6	7.8	17	11.8	7.9	16.7	80.9	53.3	100	108.2	726.1	20.2	1.7	0.2	6.3	161	21.6	53	9.5
11/08/2020	12.4	8	18.8	12.7	8.8	18.6	74.7	45.2	99.9	143.2	834.8	0	0.6	0.1	3.4	154	24.2	84.4	4.6
12/08/2020	12	7.5	20.9	12.3	7.9	20.5	89.2	52	100	125	1006.2	4.4	0.1	0	4.2	33	22.0	88	4.5
13/08/2020	14.8	8.3	23	15.4	9.7	22.9	75.7	35.9	100	207.9	761.7	0.8	0.9	0.2	4.1	297	20.2	85.9	5.2
14/08/2020	11.3	6.2	16.3	11.6	6.6	16.3	93	63.9	100	53.2	323.2	5	0.1	0	1.9	210	23.3	100.4	8.8
15/08/2020	14.1	9.6	18.9	14.3	10.1	18.4	77.8	50.7	100	184.4	849.9	0.2	2.8	0.1	6.1	303	15.9	27.6	9.4
16/08/2020	14.2	10.6	18.5	14.2	10.9	18.2	62.8	39.8	82.8	179.9	792.3	0	3.9	2.4	6.3	304	17.6	32.1	11
17/08/2020	13.3	8.9	19.4	13.3	9.2	18.9	64.9	44.8	85.3	213	778.6	0	3.6	1.8	6.2	307	17.3	25.9	8.4
18/08/2020	13.9	7.4	19.2	14.2	8.8	18.9	63.6	48.4	95.2	138.5	862.3	0	2.1	0.2	5.4	311	16.4	38.1	5.2
19/08/2020	14.2	4.7	21.3	14.8	6.2	21.1	56.1	24.5	100	190.9	850	0	4.1	0.1	8.9	287	15.3	29	3.5
20/08/2020	13.2	10.4	17.4	13.3	10.7	17	58.6	42.9	71.1	177.6	887.2	0	4.1	1.1	7.8	291	17.2	58.3	10.9
21/08/2020	13.2	9.6	17.9	13.3	9.8	17.6	57.3	41.1	74.2	192.9	886.8	0	4.6	2.1	6.9	295	15.6	23.9	10
22/08/2020	10.7	8.2	13.8	10.7	8.3	13.2	64	45.9	86.3	167	945.4	1.8	4.1	1.8	7.8	285	17.9	42.2	9.8
23/08/2020	11.8	7.8	16.4	11.8	8.1	16	51.1	35.5	71.9	226.4	869.6	0	3.7	2.4	6.5	287	17.9	28.4	11.2
24/08/2020	11.2	3.7	17.8	11.3	5.2	17.3	57.2	32.5	91.9	236.6	833.5	0	3.4	0.1	5.3	305	16.6	59	8.1
25/08/2020	7.1	-0.6	15.7	7.7	0.1	15.3	74.2	39.3	100	209	905.6	0	0.6	0.1	2.9	307	22.0	81.2	3.5
26/08/2020	8.2	-0.1	18.6	8.9	0.9	18.1	72.9	33	100	232.4	826.2	0	0.4	0.1	2.4	351	26.2	96.9	3.7
27/08/2020	10.1	-1.2	21.5	10.8	-0.6	21.1	60.1	15.8	100	231.5	880.5	0	1.7	0.1	5.2	304	17.0	60.4	8.8
28/08/2020	13.7	5	20.8	13.8	6.2	20.4	49.5	22.1	88	229	830	0	1.8	0.4	6.4	313	22.6	91.8	5.4
29/08/2020	10.6	0.5	22.2	11.3	1.1	21.9	67.2	27.5	100	234.7	828.5	0	0.2	0.1	2.4	269	27.4	94.3	3.3
30/08/2020	13.4	1	24.5	14.1	1.7	24.2	65	31.1	100	232.6	821.9	0	1.6	0	5.1	307	19.7	77	7.9
31/08/2020	17	8.5	24.6	17.2	10	24.2	56.1	26.1	92.3	230.9	810.7	0	1.5	0.1	6.3	317	18.2	35.5	8.5
	11.8	-1.2	24.6	12.2	-0.6	24.2	68.6	15.8	100	178.1	1006.2	43.6	2.0	0	8.9	276	19.3	100.4	3.3



