

**WAMBO COAL  
POLLUTION MONITORING DATA  
1 MARCH 2021 – 31 MARCH 2021**

**MARCH REPORT**

Published 8 April 2021

**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 (µS/cm)	TSS (mg/L)	Comments
Point 24	SW01					Yet to receive water sample analysis.
Point 25	SW02					
Point 26	SW03					
Point 27	SW04					
Point 28	SW05					
Point 29	SW06					
Point 30	SW07					
Point 31	SW08					
Point 33	SW15					
Point 34	SW27a					
Point 36	SW32a					
Point 39	SW39					
Point 40	SW40					
Point 41	SW41					

**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		EC	TSS max (mg/L)	Turbidity (NTU)	Volume (ML/day)	Comments
		Min	Max					
Point 4	22/03/2021	8.05	8.56	3865	90	203	0.95	
	23/03/2021	8.07	8.60	2931	65	261	21.63	
	24/03/2021	8.44	8.68	2465	250	220	29.5	
	25/03/2021	8.50	8.76	2351	264	191	23.05	
Point 19								No Discharges

Exceedance of TSS limit at Point 4 occurred on 24<sup>th</sup> and 25<sup>th</sup> of March. The cause of the elevated TSS results is being investigated.

**Sewerage Treatment Monitoring**

Monitoring Frequency: Quarterly during discharge  
 Sampling Method: Grab sample  
 Limits: Nil  
 Date sampled: 31/3/2021  
 Date obtained: Yet to receive.

Table 3- WCPL Discharge Monitoring

EPL ID	Site ID	Date	pH	Faecal Coliforms	Comments
Point 42	STPD2	-		-	Not sampled in March
Point 52	STP2	-			
Point 55	STPD1	-			

**PM10 Monitoring**

**Monitoring Frequency: Continuous**

**Sampling Method: AM22**

**Limits: Nil**

**Date sampled: Continuous**

**Date obtained: Continuous**

**Table 4 - WCPL PM10 Results**

Date of Run	PM02 - Wambo Road (Caban) (EPA14)		PM03 - Thelander (EPA15)		PM04 - Muller (EPA16)		PM05 - Kelly (EPA 53)	
	PM10 24 Hour Result (ug/m <sup>3</sup> )	Annual Average	PM10 24 Hour Result (ug/m <sup>3</sup> )	Annual Average	PM10 24 Hour Result (ug/m <sup>3</sup> )	Annual Average	PM10 24 Hour Result (ug/m <sup>3</sup> )	Annual Average
1/03/2021	22.0	15.86	21.3	10.96	24.4	16.67	23.4	13.08
2/03/2021	24.5	15.87	23.5	10.98	23.8	16.67	12.4	13.08
3/03/2021	23.6	15.90	24.3	11.00	30.5	16.72	0.0	13.00
4/03/2021	14.7	15.87	15.3	10.98	20.3	16.69	4.3	12.90
5/03/2021	18.0	15.88	15.8	10.99	20.9	16.68	6.4	12.85
6/03/2021	22.5	15.92	22.7	11.03	26.7	16.72	5.8	12.79
7/03/2021	17.3	15.95	25.0	11.08	25.8	16.77	15.3	12.81
8/03/2021	18.7	15.96	19.7	11.09	23.0	16.79	16.6	12.84
9/03/2021	12.0	15.96	2.5	11.05	12.4	16.77	13.3	12.85
10/03/2021	19.5	15.98	13.0	11.06	21.9	16.77	21.3	12.91
11/03/2021	18.3	16.00	10.2	11.05	21.6	16.76	22.1	12.98
12/03/2021	14.0	15.99	3.3	11.01	14.2	16.74	15.1	13.00
13/03/2021	10.2	15.97	5.8	10.98	10.3	16.70	12.5	13.00
14/03/2021	10.1	15.95	8.7	10.96	12.0	16.66	13.0	13.00
15/03/2021	8.8	15.94	6.4	10.95	10.6	16.65	6.8	12.95
16/03/2021	7.4	15.93	4.4	10.93	13.5	16.62	12.3	12.94
17/03/2021	9.5	15.94	2.9	10.92	10.4	16.62	11.0	12.93
18/03/2021	5.6	15.93	NaN	10.92	7.1	16.59	7.4	12.89
19/03/2021	9.0	15.91	3.4	10.89	9.8	16.54	10.8	12.88
20/03/2021	5.9	15.86	0.8	10.83	7.5	16.49	7.0	12.83
21/03/2021	7.0	15.77	3.3	10.78	7.9	16.46	4.3	12.77
22/03/2021	4.9	15.70	NaN	10.71	5.4	16.36	3.9	12.71
23/03/2021	4.7	15.62	4.2	10.64	5.5	16.29	7.0	12.67
24/03/2021	13.4	15.59	3.1	10.59	8.5	16.23	7.9	12.64
25/03/2021	10.4	15.56	5.0	10.55	10.2	16.19	8.9	12.61
26/03/2021	8.0	15.54	4.5	10.53	8.9	16.17	8.9	12.59
27/03/2021	10.2	15.55	6.4	10.52	10.5	16.17	10.1	12.57
28/03/2021	13.0	15.55	6.0	10.50	10.5	16.15	14.1	12.58
29/03/2021	13.8	15.56	7.2	10.48	15.8	16.14	17.0	12.61
30/03/2021	13.5	15.55	8.0	10.46	16.7	16.13	13.5	12.62
31/03/2021	11.8	15.55	7.7	10.46	19.2	16.15	10.3	12.60

\*NaN >75% of data collected during period

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

**Date sampled: continuous**  
**Date obtained: continuous**

**Table 5 - 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
1/03/2021	28.2	20.5	35.2	28.4	22.1	34.9	57.7	28.5	92.8	425.8	1064.0	0.0	1.3	0.1	2.7	218.2	33.3	81.1	9.6
2/03/2021	22.0	15.9	29.1	22.4	17.1	28.5	66.2	33.8	95.0	344.0	1207.5	0.0	2.1	0.2	6.2	129.9	29.8	79.7	6.8
3/03/2021	20.0	16.8	23.7	19.9	17.8	23.1	70.3	56.8	88.2	152.4	1083.7	0.0	2.1	0.2	4.1	150.2	22.1	73.7	10.5
4/03/2021	21.1	13.7	29.8	21.3	14.6	29.8	67.2	30.2	100.0	328.5	1127.8	0.0	1.0	0.1	2.8	179.7	33.8	95.3	9.5
5/03/2021	19.8	10.9	28.6	20.1	11.9	27.9	68.1	34.2	100.0	297.6	1094.0	0.0	1.9	0.1	5.8	136.2	31.5	98.3	9.3
6/03/2021	20.3	15.2	25.1	20.3	16.5	24.4	65.9	48.0	91.1	218.7	1238.6	0.0	2.2	0.3	4.3	131.3	19.1	41.7	7.8
7/03/2021	20.4	11.8	28.8	20.5	12.8	28.2	72.7	43.0	100.0	311.0	1266.7	0.0	1.4	0.1	4.7	152.4	25.9	94.2	7.3
8/03/2021	19.9	15.1	30.2	20.2	15.6	29.6	87.2	48.9	100.0	144.7	984.6	15.6	1.4	0.1	8.2	205.1	28.8	94.4	8.7
9/03/2021	23.3	16.3	31.9	23.4	16.8	31.4	73.9	37.9	100.0	237.3	1086.5	0.0	2.6	0.1	23.9	220.8	25.0	87.1	9.0
10/03/2021	23.1	20.9	27.8	23.1	21.0	26.8	73.2	56.7	90.9	212.6	1226.6	0.0	2.9	0.5	6.4	116.1	18.5	34.2	8.7
11/03/2021	23.1	19.1	28.6	23.1	19.5	28.0	73.7	53.6	99.9	195.4	1171.5	0.0	2.1	0.6	5.6	125.9	19.2	47.4	9.1
12/03/2021	22.5	18.7	27.8	22.4	19.0	27.4	87.9	61.1	100.0	190.6	937.1	8.6	0.9	0.1	4.3	156.0	30.0	86.6	9.2
13/03/2021	24.6	18.1	33.8	24.7	18.3	33.0	77.6	39.5	100.0	263.8	1048.4	0.4	1.3	0.1	3.6	231.1	26.4	89.0	6.3
14/03/2021	19.3	14.4	23.0	19.4	14.5	23.6	94.9	81.3	100.0	33.2	260.5	56.2	1.6	0.2	3.5	156.5	26.6	86.8	8.0
15/03/2021	18.4	14.8	24.1	18.4	15.5	23.3	68.9	54.5	98.6	219.0	1032.2	0.0	2.2	0.2	4.2	140.4	20.0	56.0	9.8
16/03/2021	17.7	13.6	21.9	17.8	14.0	21.4	85.4	56.3	100.0	120.8	874.5	1.0	1.5	0.3	4.1	143.8	19.8	45.8	6.7
17/03/2021	18.3	16.8	21.5	18.4	16.7	21.4	92.2	72.4	100.0	88.0	582.1	4.8	2.2	0.5	6.7	134.2	18.0	64.1	7.4
18/03/2021	19.2	17.3	21.7	19.2	17.3	21.6	92.4	73.4	100.0	91.5	471.2	47.0	2.1	1.1	4.7	144.4	17.1	27.2	9.3
19/03/2021	19.4	18.3	20.7	19.4	18.2	20.8	95.4	83.7	100.0	49.2	428.1	49.0	2.0	1.1	5.0	151.1	17.8	29.5	11.2
20/03/2021	20.4	18.4	23.8	20.4	18.4	23.6	95.2	77.1	100.0	102.4	1091.5	36.6	2.7	1.2	5.2	138.4	18.1	29.9	10.5
21/03/2021	19.8	18.5	20.9	19.9	18.4	21.0	96.2	91.5	100.0	37.0	212.1	15.8	2.8	1.4	6.0	129.4	19.6	31.1	13.0
22/03/2021	18.1	16.8	20.1	18.1	16.6	20.1	97.8	86.9	100.0	56.2	361.1	47.8	2.2	1.1	4.4	146.7	19.1	31.5	10.6
23/03/2021	19.3	17.4	21.7	19.3	17.4	21.5	99.2	92.1	100.0	60.5	352.4	17.6	1.0	0.1	3.0	154.5	26.3	80.6	6.8
24/03/2021	22.8	19.0	27.6	22.9	19.3	27.2	69.0	43.9	100.0	274.0	1108.0	0.0	3.4	1.3	5.9	300.9	20.2	37.9	13.4
25/03/2021	20.8	15.8	27.3	21.2	17.0	26.8	66.3	44.1	95.2	272.0	1068.9	0.0	2.9	0.1	5.0	271.3	23.5	89.0	9.5
26/03/2021	19.1	12.5	26.6	19.3	13.0	26.0	70.0	30.0	100.0	300.0	1000.9	0.2	1.4	0.0	3.8	240.0	28.3	92.5	6.1
27/03/2021	20.5	14.1	28.2	20.7	14.9	27.4	68.4	32.3	100.0	272.6	1056.4	0.0	1.3	0.1	3.4	216.3	28.5	97.9	5.8
28/03/2021	19.2	11.3	28.2	19.5	11.7	27.8	71.4	34.0	100.0	240.4	980.3	0.0	1.0	0.1	4.4	205.3	32.2	82.2	4.5
29/03/2021	20.8	16.2	27.1	20.8	16.9	26.6	73.2	38.7	100.0	263.7	1059.7	0.0	1.2	0.2	4.9	128.2	26.9	81.8	7.3
30/03/2021	18.5	14.0	23.8	18.6	14.5	23.1	76.0	49.0	100.0	209.0	940.5	0.6	1.4	0.2	3.1	156.0	22.0	74.8	7.3
31/03/2021	18.1	13.8	23.9	18.2	14.3	23.1	77.6	52.0	100.0	229.0	1026.1	0.0	1.4	0.1	3.7	146.0	24.1	86.5	5.0
	<b>20.5</b>	<b>10.9</b>	<b>35.2</b>	<b>20.6</b>	<b>11.7</b>	<b>34.9</b>	<b>78.6</b>	<b>28.5</b>	<b>100.0</b>	<b>199.2</b>	<b>1266.7</b>	<b>301.2</b>	<b>1.9</b>	<b>0.0</b>	<b>23.9</b>	<b>169.1</b>	<b>24.1</b>	<b>98.3</b>	<b>4.5</b>





