

**WAMBO COAL  
POLLUTION MONITORING DATA  
1 JULY 2023 – 31 JULY 2023**

**JULY MONTHLY REPORT**

Published 4 August 2023

**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	27/07/2023	7.47	926	<5	-
Point 25	SW02	27/07/2023	7.56	858	<5	-
Point 26	SW03	27/07/2023	7.53	889	9	-
Point 27	SW04	27/07/2023	-	-	-	Dry
Point 28	SW05	27/07/2023	-	-	-	Dry
Point 29	SW06	27/07/2023	-	-	-	Pool/No Flow
Point 30	SW07	27/07/2023	7.29	763	<5	-
Point 31	SW08	27/07/2023	-	-	-	Dry
Point 33	SW15	04/07/2023	8.75	5320	10	-
Point 34	SW27a	27/07/2023	-	-	-	Dry
Point 36	SW32a	27/07/2023	-	-	-	Dry
Point 39	SW39	27/07/2023	-	-	-	Dry
Point 40	SW40	27/07/2023	7.39	787	<5	-
Point 41	SW41	27/07/2023	-	-	-	Dry

**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 (Avg)	Conductivity (µS/cm) Avg	TSS (mg/L)	Turbidity (NTU)	Volume (ML/day)	Comments
Point 4	No Discharges in July						
Point 19	No Discharges in July						

**Sewerage Treatment Monitoring**

Monitoring Frequency: Quarterly during discharge  
 Sampling Method: Grab sample  
 Limits: Nil  
 Date sampled: Refer to Table below  
 Date obtained: Within 7 days of sample collection

Table 3- WCPL Discharge Monitoring

EPL ID	Site ID	Date	pH	Faecal Coliforms (CFU/100mL)	Comments
Point 43	STPD3	-	-	-	No discharge
Point 52	STPD2	4/07/23	9.1	320	
Point 56	STP1	17/07/23	7.14	91	

**PM10 Monitoring**

**Monitoring Frequency: Continuous**

**Sampling Method: AM22**

**Limits: Nil**

**Date sampled: Continuous**

**Date obtained: Continuous**

**Table 4 - WCPL PM10 Results**

Date	PM02 (D2)- Wambo Road (Caban) (EPA14)		PM03 (D4) - Thelander (EPA15)		PM04 (D1) - Muller (EPA16)		PM05 (D5) - 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
1/07/2023	4.8	12.62	0.7	9.58	6.4	13.78	29.8	17.28
2/07/2023	7.3	12.62	7.2	9.57	17.3	13.78	14.2	17.28
3/07/2023	15.9	12.65	16.6	9.61	25.1	13.83	28.9	17.35
4/07/2023	6.2	12.65	8.4	9.62	12.8	13.85	14.9	17.37
5/07/2023	4.5	12.65	4.4	9.63	5.5	13.86	15.7	17.41
6/07/2023	4.2	12.65	1.1	9.63	3.6	13.85	14.0	17.44
7/07/2023	5.6	12.66	3.0	9.64	5.1	13.86	16.7	17.49
8/07/2023	7.6	12.67	4.9	9.65	7.4	13.87	22.8	17.54
9/07/2023	10.2	12.70	8.1	9.66	11.4	13.89	20.6	17.58
10/07/2023	7.6	12.70	3.5	9.66	7.5	13.89	20.9	17.62
11/07/2023	8.1	12.71	4.6	9.66	6.4	13.89	11.1	17.63
12/07/2023	15.4	12.74	7.8	9.67	16.3	13.92	17.0	17.67
13/07/2023	10.5	12.75	7.7	9.69	10.4	13.93	18.6	17.70
14/07/2023	12.2	12.77	9.2	9.71	12.9	13.96	28.4	17.77
15/07/2023	11	12.78	8.7	9.72	11.1	13.97	30.5	17.84
16/07/2023	10.2	12.80	8.0	9.74	17.9	14.01	18.6	17.88
17/07/2023	13.5	12.82	16.1	9.78	27.3	14.07	12.4	17.87
18/07/2023	11.5	12.80	8.0	9.79	9.7	14.08	20.1	17.87
19/07/2023	7	12.80	7.9	9.80	12.3	14.10	10.9	17.86
20/07/2023	15.3	12.82	7.8	9.81	13.3	14.11	38.6	17.94
21/07/2023	10.5	12.83	5.2	9.81	10.0	14.11	26.6	17.99
22/07/2023	7.4	12.82	6.5	9.82	14.6	14.11	17.9	18.00
23/07/2023	12.2	12.83	10.5	9.82	24.6	14.14	18.3	18.01
24/07/2023	7.3	12.84	5.6	9.82	18.0	14.16	15.2	18.02
25/07/2023	13.3	12.86	10.2	9.83	16.2	14.17	14.5	18.03
26/07/2023	10.5	12.86	7.2	9.83	10.7	14.17	22.3	18.05
27/07/2023	13.7	12.88	7.1	9.84	12.0	14.19	22.8	18.09
28/07/2023	13.2	12.89	23.8	9.90	14.9	14.21	33.7	18.15
29/07/2023	11.9	12.90	9.2	9.92	18.0	14.25	41.6	18.23
30/07/2023	10.4	12.91	6.9	9.93	14.4	14.26	29.8	18.28
31/07/2023	11.3	12.92	3.9	9.92	11.2	14.25	27.2	18.33

\*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 at 10m			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
1/07/2023	11.6	5.7	18.4	11.8	7.6	17.5	84.7	59.3	100	138.4	618.7	0	2.2	0.1	4.8	304	36.1	91.4	14.1
2/07/2023	9.4	0.4	18.6	9.8	1.4	18	86.2	54.5	100	129.4	591.2	0	0.2	0.1	2.8	161	32.7	80.9	8.6
3/07/2023	10.6	4.2	17	10.8	5	16.3	93.8	74.3	100	75.5	420.3	0	0.2	0	2.8	78	31.0	92.8	7.5
4/07/2023	12.4	10	15.1	12.2	9.7	14.5	100	100	100	34.4	333.5	7.6	0.1	0.1	1.8	22	26.9	88.0	7.6
5/07/2023	15.7	11.2	20.5	15.5	11.6	19.3	85	65.4	100	140.1	738	0.2	2.5	0.2	4.9	299	26.9	98.3	11.9
6/07/2023	14.2	11.3	17.2	13.9	11.4	16.5	78.7	56	95	76.3	603.5	0	2.7	1.2	4.4	302	22.8	44.9	14.5
7/07/2023	13.2	10.6	17.2	12.9	10.7	16.4	72.2	54.7	87.7	114	637.9	0	3.3	1.2	5.6	309	22.3	64.1	11.2
8/07/2023	14.1	10.4	18.1	13.9	10.4	17.5	65.9	45.8	87	153.8	637.1	0	4.8	1.4	8.1	293	20.9	31.9	14.4
9/07/2023	13.9	8.3	18.6	13.8	10.4	18.1	69.3	51.4	94.1	152.9	672.9	0	3.2	0.5	5.7	297	22.3	69.5	14.4
10/07/2023	13.2	6.1	19.7	13.3	7.3	19	76	50.9	100	159.2	658.1	0	2.4	0.2	4.6	301	25.6	83.6	14.4
11/07/2023	8.6	-0.8	18.1	9	0.3	17.4	83.9	52	100	159.4	664.1	0	0.9	0.1	4.6	294	25.2	78.1	6.0
12/07/2023	7.7	-1.3	19.9	8.4	-0.6	19.2	86.6	50.5	100	151.9	638.5	0	0.1	0	1.9	224	27.9	95.8	6.0
13/07/2023	8.7	-1.1	21.9	9.2	-0.8	21.2	82.2	40.4	100	156.3	654.2	0	0.9	0	4.1	294	27.0	96.4	5.1
14/07/2023	10.4	0.6	22.3	11.8	2	21.7	80.8	45.3	100	157	655.9	0	1.4	0	5.6	292	30.4	90.2	10.7
15/07/2023	12.2	1.1	23.6	12.8	2	22.8	77.2	43.3	100	145.6	738.8	0	1.4	0.1	5	288	26.6	80.7	7.6
16/07/2023	12.8	6.4	19.8	12.9	7.1	18.9	91.6	69.9	100	100.7	779	0	0.8	0.1	3.6	165	28.2	97.8	9.2
17/07/2023	14.4	8.7	21.1	14.5	9.5	20.4	89	60.7	100	137.7	649.6	0	0.7	0	3.2	104	25.3	91.9	7.5
18/07/2023	12.5	5.5	22.6	12.9	5.9	21.6	89.6	44.2	100	107.7	674.4	0	1.6	0	127	327	31.5	90.7	5.6
19/07/2023	9.2	0.2	18.6	10.1	1.7	17.7	78.5	37	100	166.4	681.9	0	0.4	0.1	2.5	183	34.0	98.4	4.9
20/07/2023	8.2	-3.5	18.8	8.5	-3	18.7	71.8	37.1	100	167.7	753	0	1.2	0.1	4.3	295	24.5	96.2	4.9
21/07/2023	11.7	4.5	18.1	11.9	6.6	17.1	74	56.7	98.9	62.8	668.9	0	1.1	0.1	4.3	260	29.3	86.1	8.3
22/07/2023	8.3	0.2	17.7	8.9	1.6	17.1	83	48.1	100	165	672.9	0	0.2	0.1	2.2	164	35.1	97.0	8.2
23/07/2023	7.8	-1.8	18.4	8.2	-1.1	18	89.3	61.8	100	118	724.3	0	0.5	0	3.7	98	34.7	96.9	7.0
24/07/2023	12.7	4.9	18.8	12.8	6.5	18.3	90.5	63.1	100	96.6	712.2	0.2	1.1	0.1	3.8	153	21.1	75.2	5.1
25/07/2023	9.9	1.8	19.8	10.3	2.5	19.1	88.9	56.9	100	153.6	652.9	0	0.1	0.1	2.7	71	27.1	94.1	7.3
26/07/2023	10	1.1	21.5	10.5	1.5	20.4	87.1	50.5	100	160.2	659.4	0	0.7	0.1	3.6	294	22.5	78.4	5.8
27/07/2023	13.2	3.5	22.1	16.5	5.6	60	64.3	34.5	99.8	101.3	629.7	0	0	0	3.1	N/A	25.8	76.2	5.8
28/07/2023	12.8	1.5	23.4	14.1	3.4	23	66.9	32.5	100	150.7	764.8	0	1.4	0.1	5.4	287	33.4	81.8	7.4
29/07/2023	15.1	7.8	25.2	15.9	8.8	24.6	66.3	32.2	94.9	155.8	704.2	0	0.9	0.1	4.1	291	30.8	87.0	6.9
30/07/2023	16.3	7.7	23.6	16.8	9.2	22.9	68.3	41.1	98.7	92.3	689.4	0	1.8	0.1	5	299	27.7	95.0	11.0
31/07/2023	15	4.2	23.3	15.9	6.8	22.7	68.2	28.5	100	170.8	682.1	0	1.4	0.1	3.7	304	28.9	97.3	9.4
<b>Total</b>	<b>11.8</b>	<b>4.1</b>	<b>19.9</b>	<b>12.2</b>	<b>5.1</b>	<b>20.5</b>	<b>80.3</b>	<b>51.5</b>	<b>98.5</b>	<b>130.6</b>	<b>656.8</b>	<b>0.25</b>	<b>1.2</b>	<b>0.2</b>	<b>8.0</b>	<b>235.1</b>	<b>27.8</b>	<b>98.4</b>	<b>4.9</b>

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