

**WAMBO COAL
POLLUTION MONITORING DATA
1 AUGUST 2022 – 31 AUGUST 2022**

AUGUST MONTHLY REPORT

Published 27 September 2022

**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	5/8/2022	7.40	535	13	
Point 25	SW02	5/8/2022	7.37	515	14	
Point 26	SW03	5/8/2022	7.37	468	17	
Point 27	SW04	5/8/2022	7.36	325	<5	
Point 28	SW05	5/8/2022	7.30	379	93	
Point 29	SW06	5/8/2022	7.00	203	6	
Point 30	SW07	5/8/2022	7.27	316	25	
Point 31	SW08	5/8/2022	7.74	1240	<5	
Point 33	SW15	5/8/2022	8.74	4420	24	
Point 34	SW27a	5/8/2022	7.84	418	108	
Point 36	SW32a	5/8/2022	7.84	356	123	
Point 39	SW39	5/8/2022	7.38	131	29	
Point 40	SW40	5/8/2022	7.26	414	24	
Point 41	SW41	5/8/2022	7.11	126	36	

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	7/8/2022	8.81	4540	17	26	6.6	
	8/8/2022	9.02	3690	14	21	34.0	
Point 19	No Discharges in August						

Sewerage Treatment Monitoring

Monitoring Frequency: Quarterly during discharge
 Sampling Method: Grab sample
 Limits: Nil
 Date sampled: No sample in August
 Date obtained:

Table 3- WCPL Discharge Monitoring

EPL ID	Site ID	Date	pH	Faecal Coliforms	Comments
Point 42	STPD2				No sample
Point 52	STP2				No sample
Point 55	STPD1	-	-	-	No discharge

PM10 Monitoring
Monitoring Frequency: Continuous
Sampling Method: AM22
Limits: Nil

Date sampled: Continuous
Date obtained: Continuous

Table 4 - WCPL PM10 Results

Date	PM02 - Wambo Road (Caban) (EPA14)		PM03 - Thelander (EPA15)		PM04 - Muller (EPA16)		PM05 - Kelly (EPA 53)	
	PM10 24 Hour Result (ug/m ³)	Annual Average	PM10 24 Hour Result (ug/m ³)	Annual Average	PM10 24 Hour Result (ug/m ³)	Annual Average	PM10 24 Hour Result (ug/m ³)	Annual Average
1/08/2022	6.0	10.91	4.9	8.11	6.8	12.84	11.8	15.12
2/08/2022	5.1	10.89	3.2	8.10	3.5	12.83	8.4	15.10
3/08/2022	9.5	10.88	3.0	8.08	6.5	12.80	15.7	15.11
4/08/2022	10.7	10.89	7.0	8.09	8.1	12.80	15.1	15.10
5/08/2022	6.8	10.89	1.6	8.09	6.1	12.81	7.9	15.08
6/08/2022	5.3	10.89	2.6	8.10	5.1	12.81	11.1	15.09
7/08/2022	5.6	10.88	2.3	8.10	4.7	12.81	6.8	15.07
8/08/2022	4.7	10.88	2.1	8.10	5.3	12.81	3.4	15.04
9/08/2022	6.2	10.87	1.9	8.09	4.7	12.79	4.6	15.02
10/08/2022	9.8	10.85	7.6	8.07	11.0	12.77	5.0	15.00
11/08/2022	15.6	10.87	9.4	8.08	14.2	12.78	13.4	15.00
12/08/2022	9.5	10.86	8.9	8.08	9.0	12.77	9.9	14.98
13/08/2022	3.4	10.84	0.0	8.06	4.1	12.75	5.1	14.94
14/08/2022	4.3	10.81	1.8	8.04	3.5	12.73	7.7	14.92
15/08/2022	5.9	10.77	2.2	8.00	4.1	12.69	9.4	14.89
16/08/2022	7.8	10.74	1.5	7.97	3.7	12.67	8.1	14.82
17/08/2022	10.2	10.73	2.1	7.95	5.2	12.66	7.8	14.75
18/08/2022	10.2	10.72	2.8	7.94	5.6	12.64	15.2	14.76
19/08/2022	8.6	10.70	3.8	7.90	5.0	12.59	15.0	14.74
20/08/2022	7.1	10.68	3.8	7.88	6.9	12.57	13.4	14.72
21/08/2022	10.5	10.67	7.5	7.87	11.9	12.57	11.6	14.71
22/08/2022	12.3	10.67	7.6	7.88	9.6	12.57	28.9	14.74
23/08/2022	10.4	10.66	6.4	7.87	8.8	12.56	17.7	14.74
24/08/2022	5.2	10.63	1.8	7.84	4.0	12.53	7.4	14.66
25/08/2022	7.4	10.65	2.8	7.85	5.9	12.30	9.6	14.68
26/08/2022	11.7	10.67	3.1	7.85	8.7	12.27	8.1	14.69
27/08/2022	7.6	10.68	6.4	7.86	11.3	12.29	8.5	14.69
28/08/2022	14.6	10.70	13.3	7.89	15.8	12.32	14.4	14.67
29/08/2022	12.7	10.72	8.0	7.89	12.3	12.34	11.2	14.66
30/08/2022	11.0	10.71	6.2	7.89	10.6	12.33	21.0	14.68
31/08/2022	10.9	10.71	7.5	7.90	13.2	12.35	13.2	14.68

*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
1/08/2022	5.6	12.9	19.5	13.4	7.1	19.1	80.0	44.6	100.0	174.1	809.5	0.6	2.1	0.2	3.7	246.8	24.5	63.6	6.1
2/08/2022	0.5	9.5	18.9	10.0	1.2	18.4	73.8	29.8	100.0	196.2	749.6	0	1.5	0.0	4.2	227.9	27.7	91.4	6.9
3/08/2022	4.7	13.5	23.2	13.9	5.1	22.7	76.8	46.4	100.0	158.4	698.4	0	1.5	0.1	4.6	253.1	25.5	77.9	7.2
4/08/2022	10.1	16.6	22.8	17.3	11.8	22.4	86.0	54.9	100.0	80.1	616.3	27	1.9	0.1	4.4	270.2	25.9	90.4	10.5
5/08/2022	12.8	17.3	21.1	17.6	13.4	20.9	72.4	44.6	97.8	97.7	682.6	0.4	3.1	1.4	5.5	293.3	18.9	32.7	9.7
6/08/2022	9.3	14.3	19.1	14.5	11.7	18.9	63.7	36.9	91.4	186.3	844.7	1.8	3.3	0.8	8.6	297.6	20.1	54.9	12.4
7/08/2022	6.3	11.3	17.1	11.4	6.8	16.8	76.2	46.7	100.0	149.9	785.5	2.6	1.5	0.1	4.4	237.0	35.1	97.9	10.5
8/08/2022	3.7	9.9	17.9	10.4	4.3	17.5	82.2	45.2	100.0	169.8	802.3	0.4	1.0	0.0	2.5	177.7	31.6	91.5	8.7
9/08/2022	4.6	11.0	15.6	11.4	5.3	15.4	75.5	51.6	100.0	138.9	865.6	0	1.5	0.1	3.3	167.0	27.0	92.6	8.8
10/08/2022	7.7	12.3	18.0	12.6	8.8	17.7	76.6	46.9	100.0	189.9	906.3	0	1.5	0.2	3.5	157.7	21.8	88.6	7.6
11/08/2022	7.8	11.4	17.0	11.5	8.0	16.8	90.2	59.6	100.0	75.1	435.3	0	0.7	0.1	1.7	170.2	29.5	87.2	7.8
12/08/2022	9.9	12.6	15.2	12.6	10.1	14.9	95.6	79.6	100.0	42.1	282.9	10.6	0.9	0.0	2.9	215.3	28.9	93.0	9.4
13/08/2022	7.8	13.0	18.4	13.1	8.6	17.9	79.3	43.4	100.0	159.3	807.6	5.6	2.2	0.1	4.6	258.9	25.3	88.4	8.8
14/08/2022	9.0	11.9	16.0	11.9	9.1	15.6	68.6	51.0	80.5	171.9	759.4	0	3.7	1.7	6.5	304.7	21.6	31.3	15.2
15/08/2022	9.1	12.7	16.7	12.7	9.4	16.4	65.3	43.6	85.5	164.5	979.9	0	3.4	1.6	5.7	302.4	20.6	29.6	12.0
16/08/2022	6.4	12.0	18.4	12.4	7.7	18.0	69.0	40.0	95.0	171.4	960.4	0	2.2	0.0	4.5	241.6	26.5	91.2	7.1
17/08/2022	2.7	10.5	19.9	10.9	3.8	19.3	79.3	41.7	100.0	217.2	798.0	0	1.0	0.1	2.7	217.0	30.8	92.5	6.2
18/08/2022	3.9	13.0	21.0	13.5	4.5	20.6	70.1	44.0	100.0	148.3	793.8	0	2.0	0.2	5.0	274.4	28.3	84.7	8.9
19/08/2022	6.1	14.9	20.3	15.2	7.8	19.6	60.6	44.7	93.9	135.1	939.7	0	2.3	0.2	5.0	263.5	25.6	94.7	10.2
20/08/2022	4.4	11.9	18.9	12.2	6.1	18.4	65.0	40.5	100.0	174.3	825.4	0	2.5	0.2	4.8	271.2	25.0	79.4	11.3
21/08/2022	5.5	11.9	19.1	12.1	6.2	19.3	74.6	39.3	100.0	218.7	961.1	0	0.8	0.1	2.2	178.1	30.3	98.4	6.5
22/08/2022	1.8	12.0	20.4	12.3	2.2	19.9	70.8	37.7	100.0	186.5	825.1	0	1.9	0.1	5.7	244.0	28.2	87.2	7.5
23/08/2022	6.0	12.3	21.6	12.4	6.6	20.7	76.8	44.3	100.0	161.4	927.1	4.2	2.3	0.1	10.8	228.2	25.8	98.0	7.5
24/08/2022	6.1	10.9	18.0	11.1	6.8	17.6	61.9	27.9	85.6	239.8	870.8	0.6	1.7	0.1	4.3	239.2	33.3	89.8	10.6
25/08/2022	3.1	11.5	18.5	11.7	4.3	17.9	69.0	42.8	100.0	206.8	899.1	0	1.7	0.2	4.3	256.0	30.1	97.6	6.4
26/08/2022	6.9	12.4	18.1	12.7	7.5	17.6	82.6	57.1	100.0	136.8	728.0	0	1.3	0.1	3.9	113.6	28.1	95.7	8.9
27/08/2022	6.8	13.4	19.8	13.8	8.2	19.3	80.2	46.2	100.0	185.3	954.7	0	1.3	0.0	3.8	138.6	26.9	97.9	8.4
28/08/2022	8.7	14.5	22.1	14.9	9.2	21.6	80.4	45.9	100.0	204.8	786.2	0	1.0	0.1	2.9	151.4	29.6	78.2	8.3
29/08/2022	7.0	13.8	20.7	14.1	7.4	20.4	87.8	54.3	100.0	123.4	709.5	0.6	0.8	0.0	2.5	171.8	35.0	96.4	8.4
30/08/2022	9.7	14.9	20.8	15.4	10.0	20.6	85.0	59.7	100.0	70.1	363.3	0	1.4	0.2	3.9	240.5	26.4	79.7	5.7
31/08/2022	5.2	14.0	21.2	14.4	6.0	21.0	77.7	43.0	100.0	228.6	949.9	0.2	1.5	0.1	4.6	142.5	29.7	94.7	10.2
	0.5	12.7	23.2	13.0	1.2	22.7	75.9	27.9	100.0	160.0	979.9	54.6	1.8	0.0	10.8	224.0	27.2	98.4	5.7

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