

WAMBO COAL
POLLUTION MONITORING DATA
1 MAY 2024 – 31 MAY 2024

MAY MONTHLY REPORT

Published 14 June 2024

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	7/05/2024	7.0	667	22	
Point 25	SW02	7/05/2024	7.0	626	7	
Point 26	SW03	7/05/2024	7.0	545	10	
Point 27	SW04	7/05/2024	-	-	-	DRY
Point 28	SW05	7/05/2024	-	-	-	No Flow
Point 29	SW06	7/05/2024	7.1	211	<5	
Point 30	SW07	7/05/2024	7.0	259	6	
Point 31	SW08	7/05/2024	-	-	-	
Point 33	SW15	8/05/2024	8.9	4000	81	
Point 34	SW27a	7/05/2024				No Flow
Point 36	SW32a	7/05/2024				No Flow
Point 39	SW39	7/05/2024				No Flow
Point 40	SW40	7/05/2024	6.8	529	11	
Point 41	SW41	7/05/2024	7.2	216	95	
Point 42	SW54	7/05/2024	-	-	-	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	10/05/2024	8.85	4610	34	96.3	15.6	
Point 19	No Discharge in May						

Sewerage Treatment Monitoring

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

Table 3- WCPL Discharge Monitoring

EPL ID	Site ID	Date	pH	Faecal Coliforms (CFU/100mL)	Comments
Point 43	STPD3	-	-	-	No discharge
Point 52	STPD2	08/05/2024	8.94	680	Sample required Quarterly
Point 56	STP1	07/05/2024	7.09	<100	Sample required Quarterly

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 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
1/05/2024	6.2	16.24	4.8	12.31	7.8	20.04	6.3	22.93
2/05/2024	6.8	16.23	5.7	12.31	10.6	20.05	6.6	22.86
3/05/2024	5.6	16.22	6.0	12.31	12.9	20.06	13.9	22.79
4/05/2024	6.5	16.21	8.4	12.31	12.1	20.06	11.6	22.78
5/05/2024	5.6	16.19	2.6	12.29	7.3	20.05	5.7	22.75
6/05/2024	6.3	16.17	5.7	12.29	7.9	20.03	7.8	22.72
7/05/2024	9.1	16.17	6.8	12.29	15.3	20.05	15.1	22.71
8/05/2024	7.7	16.17	8.5	12.30	14.7	20.08	14.7	22.70
9/05/2024	7.3	16.16	8.1	12.31	16.8	20.09	16.0	22.70
10/05/2024	7.3	16.14	4.7	12.30	12.9	20.09	13.4	22.69
11/05/2024	4.7	16.10	3.2	12.27	7.8	20.06	7.4	22.67
12/05/2024	5.7	16.08	3.6	12.25	8.0	20.05	8.0	22.65
13/05/2024	7.2	16.06	3.1	12.21	12.5	20.04	14.7	22.66
14/05/2024	9.9	16.05	9.0	12.20	14.2	20.05	13.6	22.65
15/05/2024	19.8	16.07	12.8	12.21	20.2	20.05	21.5	22.68
16/05/2024	13.6	16.08	15.0	12.24	21.8	20.05	15.9	22.69
17/05/2024	10.3	16.09	10.2	12.25	13.5	20.06	16.8	22.71
18/05/2024	8.4	16.08	5.8	12.25	9.4	20.07	8.2	22.70
19/05/2024	6.8	16.08	4.1	12.25	8.0	20.07	11.7	22.70
20/05/2024	9.1	16.08	4.7	12.24	10.9	20.08	14.9	22.65
21/05/2024	8.5	16.08	5.5	12.25	13.2	20.09	6.5	22.60
22/05/2024	9.2	16.05	4.2	12.25	10.5	20.10	14.9	22.60
23/05/2024	8.7	16.01	6.2	12.23	11.8	20.09	17.4	22.60
24/05/2024	13.8	15.99	7.5	12.23	14.1	20.09	15.0	22.58
25/05/2024	19.5	15.97	12.6	12.22	17.1	20.08	19.9	22.51
26/05/2024	11.7	15.95	9.7	12.21	13.4	20.08	22.4	22.47
27/05/2024	13.7	15.97	10.5	12.23	13.7	20.10	22.7	22.48
28/05/2024	14.3	15.98	12.9	12.26	7.1	20.10	20.7	22.49
29/05/2024	13.6	16.00	9.0	12.27	11.2	20.12	25.5	22.48
30/05/2024	15.0	16.01	8.7	12.28	14.8	20.13	20.4	22.45
31/05/2024	17.5	16.02	6.6	12.28	12.0	20.14	55.8	22.49

*NaN >75% of data collected during period

Meteorological Monitoring

Monitoring Frequency: Continuous

Sampling Method: Site Meteorological Station EPA17

Limits: Nil

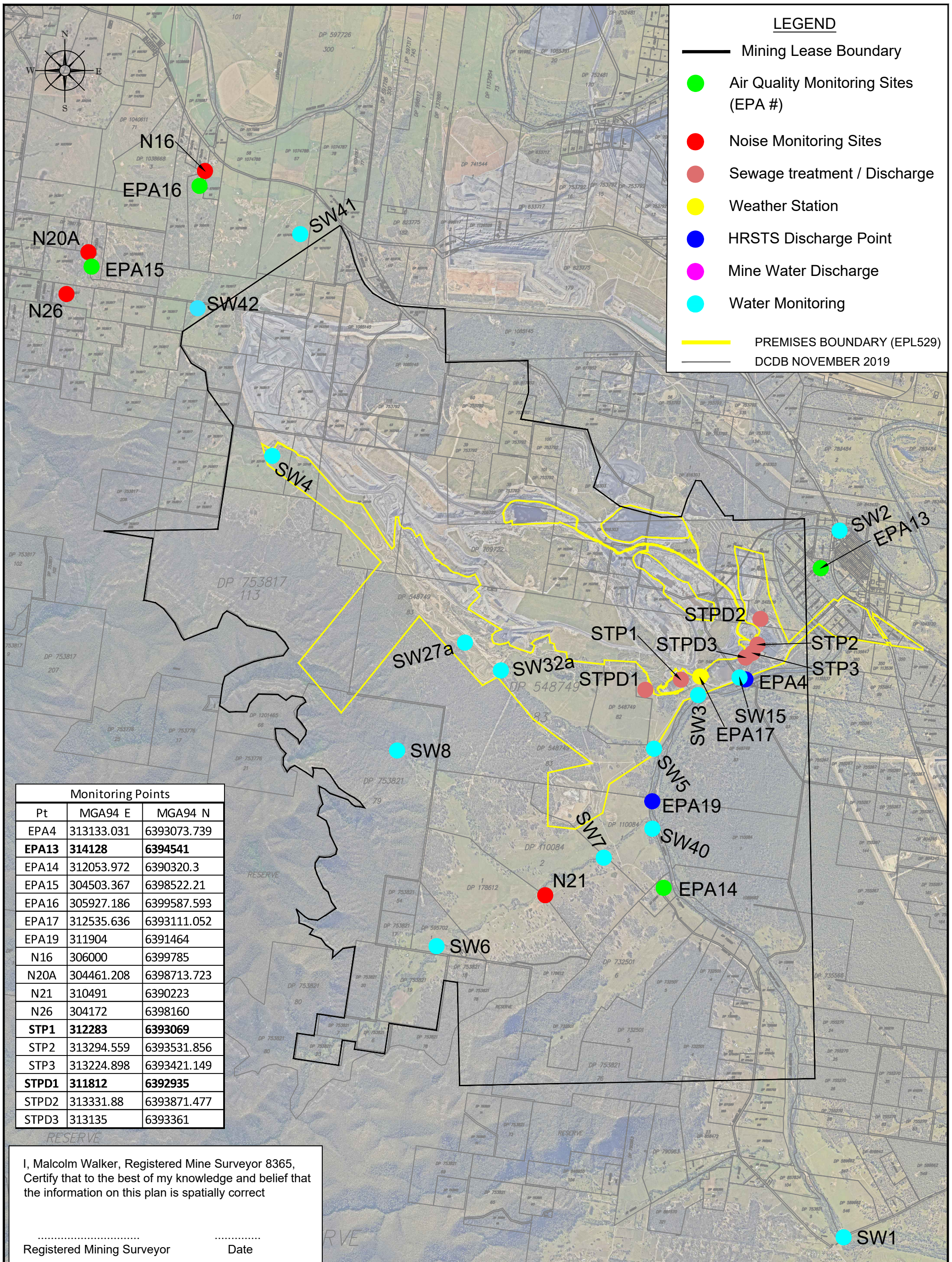
Date sampled: continuous

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
1/05/2024	15.6	12.8	18.4	15.5	12.7	18.1	83.2	66.6	100.0	129.4	551.5	3.4	2.1	1.0	3.8	155.3	17.9	31.4	8.5
2/05/2024	15.6	11.2	19.9	15.7	11.6	19.6	80.6	56.3	99.9	91.5	549.0	0.0	1.9	0.2	3.7	146.7	19.8	81.1	6.8
3/05/2024	15.3	10.5	20.4	15.6	11.6	20.1	83.2	58.5	100.0	127.1	646.2	0.0	1.6	0.1	3.5	149.3	20.3	83.8	7.2
4/05/2024	15.6	12.7	20.5	15.6	13.3	19.9	91.6	62.9	100.0	90.5	629.8	9.8	1.3	0.1	4.5	138.9	25.4	77.6	8.9
5/05/2024	15.4	13.4	20.3	15.3	13.3	20.0	93.5	68.1	100.0	60.9	489.7	11.0	1.4	0.1	3.8	167.4	21.6	89.5	6.0
6/05/2024	15.4	12.1	18.9	15.5	13.4	18.7	95.8	81.9	100.0	66.1	549.1	22.4	2.3	1.2	3.5	155.1	16.4	26.4	9.3
7/05/2024	15.2	11.1	20.5	15.5	11.7	20.1	83.6	57.2	100.0	103.8	660.8	0.4	1.6	0.3	3.6	146.7	19.6	73.7	8.6
8/05/2024	16.1	12.1	20.6	16.2	12.3	20.1	85.2	59.3	100.0	113.1	682.9	0.0	1.3	0.1	3.0	152.8	21.3	80.2	8.0
9/05/2024	15.8	12.4	21.0	16.0	13.5	20.6	91.2	62.6	100.0	103.0	598.9	4.0	1.3	0.1	4.7	146.0	22.1	81.8	7.1
10/05/2024	16.1	13.2	19.6	16.2	13.4	19.5	88.8	63.9	100.0	66.5	388.2	0.2	1.3	0.1	3.8	176.7	23.1	92.7	6.3
11/05/2024	15.9	14.4	17.3	15.7	14.4	17.2	98.9	91.3	100.0	34.4	202.9	20.8	1.4	0.1	3.4	152.0	19.5	83.5	9.5
12/05/2024	15.7	13.4	20.7	15.9	14.0	20.5	91.1	59.4	100.0	83.8	712.2	0.4	0.7	0.1	2.1	175.7	31.6	99.9	9.5
13/05/2024	15.9	11.1	21.5	16.2	12.1	21.4	87.9	59.7	100.0	72.6	404.9	0.2	1.0	0.0	2.8	215.1	33.8	96.1	8.7
14/05/2024	14.4	7.9	23.4	14.8	8.4	23.2	85.2	45.1	100.0	137.9	555.4	0.2	1.0	0.0	3.4	231.1	28.8	90.9	6.8
15/05/2024	14.9	9.8	22.6	15.2	10.5	22.4	85.3	48.8	100.0	126.8	541.3	0.0	0.8	0.1	2.3	215.3	28.8	99.8	5.7
16/05/2024	14.1	8.7	21.8	14.4	9.0	21.4	88.1	55.2	100.0	116.0	567.3	0.2	0.8	0.0	2.9	158.4	25.6	88.7	7.3
17/05/2024	14.1	9.0	21.3	14.6	9.9	21.1	90.9	58.2	100.0	85.3	478.4	0.0	1.1	0.0	3.4	243.6	32.1	93.6	9.2
18/05/2024	12.1	7.7	15.1	12.5	8.8	15.1	71.2	54.4	100.0	37.2	225.6	0.8	2.3	0.1	4.7	167.4	26.4	101.5	10.7
19/05/2024	11.3	4.8	19.1	12.2	6.4	18.4	74.5	41.3	100.0	117.6	558.4	0.2	0.9	0.0	2.4	213.3	39.4	99.0	8.6
20/05/2024	10.7	2.4	18.2	11.4	3.8	18.3	76.0	41.9	100.0	112.9	546.4	0.0	1.0	0.0	3.1	182.3	35.4	99.1	5.9
21/05/2024	14.4	8.3	18.7	14.6	8.9	18.3	72.0	55.3	100.0	70.8	597.3	0.0	1.6	0.1	3.5	168.0	24.1	92.3	9.5
22/05/2024	10.9	3.8	19.7	11.4	4.8	18.9	85.4	51.4	100.0	116.6	481.1	0.2	0.7	0.0	1.8	197.7	34.4	89.6	7.2
23/05/2024	10.3	3.4	20.0	11.0	4.0	20.4	85.5	47.4	100.0	93.7	462.8	0.0	0.7	0.0	2.1	193.8	29.9	86.9	0.1
24/05/2024	10.7	3.6	20.2	11.4	4.2	20.4	87.6	54.3	100.0	99.1	502.2	0.2	0.6	0.0	1.7	191.8	26.7	96.3	4.9
25/05/2024	11.6	5.6	19.2	12.2	6.4	19.0	91.0	63.2	100.0	76.6	488.4	0.0	0.7	0.0	1.9	145.4	26.3	86.3	6.0
26/05/2024	13.5	7.3	20.9	13.8	8.2	20.8	88.1	56.9	100.0	94.8	417.2	0.0	1.0	0.0	3.0	234.6	24.7	81.5	6.0
27/05/2024	11.7	4.2	21.9	12.2	4.7	22.1	85.5	44.5	100.0	94.4	416.7	0.0	0.7	0.0	1.9	220.8	30.2	97.7	6.1
28/05/2024	10.7	3.3	21.5	11.5	4.0	21.2	86.0	45.6	100.0	99.3	420.9	0.4	0.7	0.0	1.5	190.6	25.9	92.5	6.8
29/05/2024	11.0	2.5	23.2	11.7	2.9	22.6	84.8	42.6	100.0	108.8	460.2	0.2	0.8	0.0	2.6	214.4	22.2	62.1	5.6
30/05/2024	12.7	3.5	23.6	13.1	4.0	23.0	83.8	45.1	100.0	99.0	408.3	0.2	0.8	0.0	3.0	214.2	29.2	90.2	7.0
31/05/2024	17.9	10.6	22.1	18.1	11.3	21.9	75.1	50.6	100.0	40.3	325.3	2.8	2.1	0.2	4.7	270.2	27.5	95.0	8.2
Total	13.9	2.4	23.6	14.2	2.9	23.2	85.7	41.3	100.0	91.4	712.2	93.6	1.2	0.0	4.7	184.9	26.2	101.5	0.1

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Monitoring Points		
Pt	MGA94 E	MGA94 N
EPA4	313133.031	6393073.739
EPA13	314128	6394541
EPA14	312053.972	6390320.3
EPA15	304503.367	6398522.21
EPA16	305927.186	6399587.593
EPA17	312535.636	6393111.052
EPA19	311904	6391464
N16	306000	6399785
N20A	304461.208	6398713.723
N21	310491	6390223
N26	304172	6398160
STP1	312283	6393069
STP2	313294.559	6393531.856
STP3	313224.898	6393421.149
STPD1	311812	6392935
STPD2	313331.88	6393871.477
STPD3	313135	6393361

I, Malcolm Walker, Registered Mine Surveyor 8365, Certify that to the best of my knowledge and belief that the information on this plan is spatially correct

.....
Registered Mining Surveyor Date

Rev.	Drawn	Description	Approved
D	MJW	Water monitoring and discharge sites added	
E	MJW	Monitoring points except water monitoring added to coordinate table	
G	MJW	STPD3 Location amended	
H	MJW	EPA 13, STP 1, STPD1 & EPA 11 Locations amended	JB
I	RE	Opencut related monitors removed	JB

WAMBO COAL PTY LIMITED
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Wambo mine
Environment Protection Licence 529
Plan of Premises- Monitoring Sites

Date: _____ Scale: 1:45,000 Drawn: MJW Checked: JB Approved: PJ

Drawing No.	2672-2
Revision No.	J_26/11/2020
Sheet Size	A3