

WAMBO COAL
POLLUTION MONITORING DATA
1 SEPTEMBER 2024 – 30 SEPTEMBER 2024
SEPTEMBER MONTHLY REPORT

Published 24 October 2024

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	27/09/2024	7.22	767	<5	
Point 25	SW02	27/09/2024	7.40	702	<5	
Point 26	SW03	27/09/2024	7.36	720	<5	
Point 27	SW04	27/09/2024	-	-	-	DRY
Point 28	SW05	27/09/2024	-	-	-	Pool
Point 29	SW06	27/09/2024	6.98	350	<5	
Point 30	SW07	27/09/2024	7.13	687	<5	
Point 31	SW08	27/09/2024	-	-	-	No access
Point 33	SW15	9/09/2024	8.95	5990	42	
Point 34	SW27a	27/09/2024	-	-	-	DRY
Point 36	SW32a	27/09/2024	-	-	-	DRY
Point 39	SW39	27/09/2024	-	-	-	DRY
Point 40	SW40	27/09/2024	-	-	-	Pool
Point 41	SW41	27/09/2024	-	-	-	Pool
Point 42	SW54	27/09/2024	-	-	-	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	No Discharge in September						
Point 19	No Discharge in September						

Sewerage Treatment Monitoring

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

Table 3- WCPL Discharge Monitoring

EPL ID	Site ID	Date	pH	Faecal Coliforms (CFU/100mL)	Comments
Point 43	STPD3	-	-	-	No discharge
Point 52	STPD2				Sample required Quarterly
Point 56	STP1	-	-	-	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
1/09/2024	19.5	15.36	10.6	11.65	13.7	18.92	47.1	22.18
2/09/2024	19.4	15.38	10.9	11.65	17.1	18.91	56.6	22.29
3/09/2024	15.4	15.36	11.6	11.65	25.9	18.93	26.2	22.31
4/09/2024	16.9	15.34	10.5	11.62	16.2	18.89	30.5	22.32
5/09/2024	24.5	15.37	15.9	11.65	22.4	18.92	42.6	22.34
6/09/2024	20.9	15.36	14.6	11.66	19.5	18.92	46.3	22.39
7/09/2024	19.9	15.33	14.7	11.64	25.8	18.91	47.1	22.40
8/09/2024	15.4	15.35	10.3	11.67	15.5	18.93	54.0	22.52
9/09/2024	12.0	15.36	7.1	11.68	9.3	18.94	34.2	22.57
10/09/2024	19.7	15.37	14.8	11.69	24.3	18.96	30.7	22.61
11/09/2024	23.5	15.38	14.8	11.69	19.4	18.95	38.9	22.66
12/09/2024	12.2	15.35	11.8	11.68	18.9	18.94	28.5	22.68
13/09/2024	13.6	15.32	11.4	11.67	20.3	18.92	14.0	22.65
14/09/2024	11.5	15.28	6.5	11.62	9.3	18.84	28.0	22.65
15/09/2024	8.1	15.23	5.6	11.60	19.7	18.84	14.9	22.61
16/09/2024	16.3	15.21	7.9	11.59	16.6	18.83	31.7	22.55
17/09/2024	16.4	15.21	9.0	11.57	14.3	18.79	23.8	22.52
18/09/2024	15.8	15.17	6.8	11.54	12.8	18.74	62.8	22.58
19/09/2024	16.3	15.13	7.5	11.51	12.7	18.69	49.5	22.51
20/09/2024	16.3	15.07	7.8	11.47	16.0	18.64	45.5	22.38
21/09/2024	14.7	15.04	6.5	11.44	14.3	18.58	65.3	22.47
22/09/2024	13.4	15.04	5.9	11.42	12.0	18.54	47.8	22.54
23/09/2024	17.1	15.04	8.1	11.40	14.6	18.47	70.7	22.67
24/09/2024	41.0	15.11	17.0	11.41	33.6	18.48	47.0	22.76
25/09/2024	33.7	15.15	21.8	11.44	34.4	18.51	58.4	22.83
26/09/2024	11.4	15.09	10.4	11.42	16.9	18.47	11.0	22.78
27/09/2024	5.9	15.03	5.7	11.39	9.6	18.43	9.8	22.72
28/09/2024	6.7	15.00	5.4	11.38	13.2	18.42	12.4	22.73
29/09/2024	7.6	14.98	7.7	11.37	15.7	18.42	16.1	22.71
30/09/2024	9.4	14.95	8.9	11.35	12.6	18.37	5.7	22.65

*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

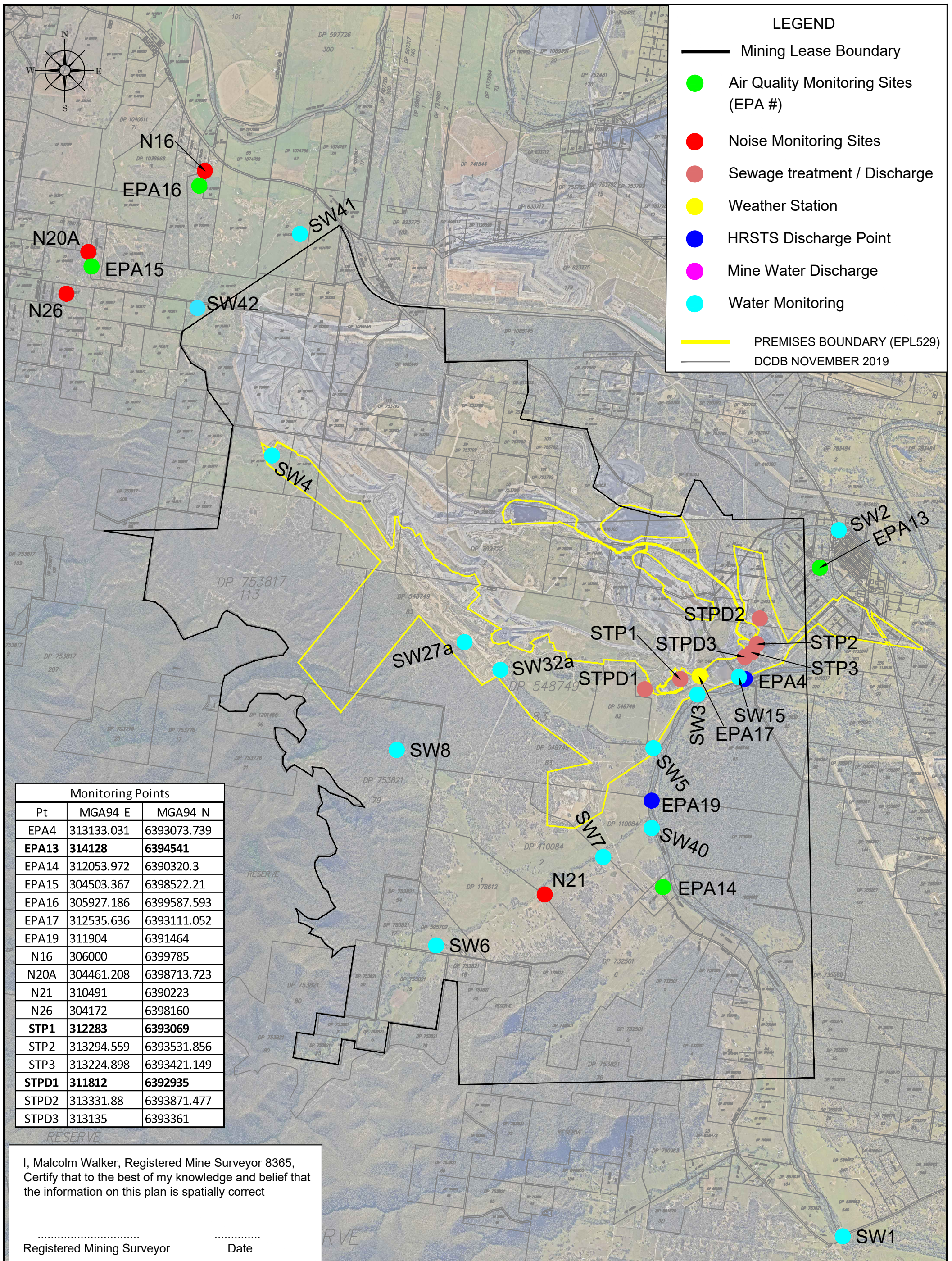
Table 5 - WCPL Meteorology

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
1/09/2024	22.1	15.1	26.8	22.2	15.1	26.5	38.1	25.7	56.0	258.0	659.6	0	3.7	0.3	6.7	306	24.1	84.2	14.9
2/09/2024	18.9	13.3	25.4	19.0	14.1	24.9	35.2	18.9	51.4	191.2	675.3	0	4.1	1.4	7.9	292	21.5	48.2	14.6
3/09/2024	11.9	3.9	19.4	12.4	4.9	19.0	50.0	23.2	92.2	192.4	678.0	0	1.6	0.1	3.6	166	30.7	100.7	8.3
4/09/2024	11.0	0.4	22.9	11.6	1.0	22.4	67.6	24.4	100.0	189.0	677.7	0	1.2	0.0	3.6	245	24.3	92.7	6.6
5/09/2024	15.5	3.6	25.4	16.4	4.4	24.9	63.0	36.2	100.0	187.6	660.1	0	2.2	0.2	5.3	254	27.4	73.7	5.9
6/09/2024	18.1	5.7	27.1	18.6	6.9	26.6	62.1	36.2	100.0	188.3	657.7	0	2.7	0.1	5.3	265	30.0	75.7	11.4
7/09/2024	22.4	14.6	30.5	22.5	15.7	30.1	49.8	28.9	89.4	182.8	640.6	0	3.1	0.1	5.7	257	23.7	67.9	7.2
8/09/2024	15.9	11.3	21.8	16.2	11.8	21.7	72.6	43.1	100.0	43.9	278.2	0	2.0	0.1	4.8	251	30.9	89.6	8.7
9/09/2024	15.7	8.6	22.7	16.0	9.8	22.1	56.8	31.5	95.7	144.0	568.5	0	2.6	0.1	5.1	257	26.1	70.6	9.6
10/09/2024	14.2	3.8	22.8	14.7	5.2	22.2	69.6	36.7	100.0	185.7	662.5	0	1.3	0.1	3.2	158	28.3	80.8	7.3
11/09/2024	16.6	5.0	26.7	17.1	6.1	26.2	72.3	39.1	100.0	172.6	635.3	0	1.4	0.1	3.8	235	26.3	89.8	7.7
12/09/2024	17.4	12.6	22.2	17.3	12.5	21.7	69.3	44.7	94.2	118.9	719.9	1	2.8	0.6	5.4	213	25.4	66.9	13.2
13/09/2024	14.4	7.8	19.5	14.4	9.0	18.7	64.3	43.0	100.0	167.4	737.1	0	2.0	0.2	4.9	142	20.7	65.2	6.1
14/09/2024	14.3	3.7	23.2	14.4	4.1	22.7	64.2	29.1	100.0	187.2	659.6	0	2.1	0.0	4.5	236	24.1	99.0	7.7
15/09/2024	12.2	3.9	17.6	12.4	5.7	17.1	50.2	27.7	96.5	183.5	700.9	0	2.5	0.0	5.0	170	23.2	89.3	9.4
16/09/2024	11.7	2.5	22.6	12.3	3.9	22.2	59.7	9.9	100.0	200.7	698.4	0	2.2	0.0	5.3	211	26.5	97.2	8.7
17/09/2024	12.0	1.9	21.7	12.5	2.9	20.9	67.4	33.4	100.0	194.5	674.9	0	1.2	0.0	3.6	214	32.7	88.6	8.3
18/09/2024	14.7	3.3	25.3	15.5	6.0	24.6	50.0	15.4	100.0	205.4	715.1	0	2.7	0.1	6.4	243	30.0	86.2	9.5
19/09/2024	15.2	1.5	27.1	16.0	3.0	26.5	45.2	11.1	99.8	204.6	701.6	0	2.5	0.1	6.2	244	29.3	81.1	11.9
20/09/2024	15.0	3.8	24.9	16.0	5.8	24.3	45.4	18.4	90.3	205.8	701.2	0	2.3	0.1	5.4	242	27.3	80.9	10.9
21/09/2024	16.3	3.8	24.3	16.8	6.2	23.6	42.4	23.8	91.3	203.1	694.2	0	3.2	0.3	5.8	271	24.4	88.9	11.6
22/09/2024	16.6	7.8	25.8	17.2	9.1	25.1	46.6	21.3	74.6	205.2	713.4	0	2.2	0.1	5.0	243	34.3	99.4	11.9
23/09/2024	17.1	6.1	27.9	18.1	8.4	27.4	52.7	19.4	98.2	205.1	701.4	0	2.2	0.0	5.1	218	26.3	84.7	7.4
24/09/2024	16.5	6.1	25.6	17.1	6.8	25.3	62.0	30.2	98.1	127.1	598.5	0	0.8	0.0	2.2	196	33.0	98.6	7.3
25/09/2024	21.4	12.1	29.1	21.6	12.5	28.4	53.6	28.5	97.8	162.5	684.2	0	1.8	0.0	4.7	269	30.1	90.2	7.0
26/09/2024	13.7	10.9	20.9	13.6	10.4	21.6	93.6	53.6	100.0	22.1	110.2	27.2	1.8	0.1	4.2	164	21.2	81.8	9.4
27/09/2024	13.4	10.9	17.3	13.3	10.8	16.9	76.6	48.2	100.0	112.9	697.3	3.2	3.0	0.8	6.6	146	17.4	23.1	11.6
28/09/2024	14.8	10.9	19.7	14.7	11.3	18.9	74.2	53.2	98.2	146.4	750.4	0.2	2.7	0.9	6.4	138	18.1	28.9	9.0
29/09/2024	17.8	13.2	22.7	17.6	13.6	22.2	85.6	63.1	100.0	124.5	701.3	0.2	1.7	0.4	3.5	146	19.7	64.4	8.1
30/09/2024	17.7	12.0	23.2	17.7	12.8	22.6	77.4	43.1	99.9	152.4	879.2	12.6	1.9	0.1	5.5	155	23.1	77.2	6.1
Total	15.7	0.4	30.5	16.1	1.0	30.1	60.8	9.9	100.0	167.9	879.2	44.4	2.2	0.0	7.9	217	26.0	100.7	5.9

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LEGEND

- Mining Lease Boundary
- Air Quality Monitoring Sites (EPA #)
- Noise Monitoring Sites
- Sewage treatment / Discharge
- Weather Station
- HRSTS Discharge Point
- Mine Water Discharge
- Water Monitoring
- PREMISES BOUNDARY (EPL529)
- DCDB NOVEMBER 2019




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

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 Prepared by NWU Survey Ph: 02 65 702318

Wambo mine
Environment Protection Licence 529
Plan of Premises- Monitoring Sites

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

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