

**WAMBO COAL
POLLUTION MONITORING DATA
1 FEBRUARY 2023 – 28 FEBRUARY 2023
FEBRUARY MONTHLY REPORT**

Published 02 March 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	23/02/2023	7.22	770	8	
Point 25	SW02	23/02/2023	7.33	688	6	
Point 26	SW03	23/02/2023	7.31	688	9	
Point 27	SW04	23/02/2023				
Point 28	SW05	23/02/2023				NO FLOW
Point 29	SW06	23/02/2023	7.13	361	<5	
Point 30	SW07	23/02/2023	7.28	623	6	
Point 31	SW08	23/02/2023	7.78	4940	<5	
Point 33	SW15	14/02/2023	8.80	6290	8	
Point 34	SW27a	23/02/2023				
Point 36	SW32a	23/02/2023				
Point 39	SW39	23/02/2023				
Point 40	SW40	23/02/2023	7.46	707	6	
Point 41	SW41	23/02/2023				

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 February						
Point 19	No Discharges in February						

Sewerage Treatment Monitoring

Monitoring Frequency: Quarterly during discharge
 Sampling Method: Grab sample
 Limits: Nil
 Date sampled: Not sampled in February
 Date obtained:

Table 3- WCPL Discharge Monitoring

EPL ID	Site ID	Date	pH	Faecal Coliforms (CFU/100mL)	Comments
Point 43	STPD3	-	-	-	No discharge
Point 52	STPD2				Sampled Quarterly
Point 56	STP1	-	-	-	Sampled Quarterly

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
1/02/2023	20.1	10.61	12.5	8.26	17.6	12.29	17.5	14.19
2/02/2023	16.3	10.62	13.6	8.26	17.616	12.29	34.8	14.21
3/02/2023	14.6	10.64	9.3	8.28	22.3	12.33	36.5	14.29
4/02/2023	11.5	10.65	7.3	8.28	28.2	12.37	35.3	14.36
5/02/2023	27.3	10.69	22.2	8.32	23.1	12.38	33.4	14.42
6/02/2023	28.0	10.74	29.2	8.37	35.8	12.44	29.0	14.46
7/02/2023	22.1	10.77	21.3	8.40	31.9	12.49	21.9	14.49
8/02/2023	19.1	10.80	18.1	8.43	34.4	12.55	23.8	14.53
9/02/2023	13.6	10.82	10.5	8.44	14.2	12.55	18.1	14.55
10/02/2023	14.8	10.83	14.1	8.45	16.9	12.56	16.4	14.56
11/02/2023	14.5	10.82	9.3	8.42	14.3	12.53	34.8	14.60
12/02/2023	24.4	10.85	20.6	8.45	26.7	12.56	31.5	14.65
13/02/2023	21.1	10.88	22.8	8.47	29.1	12.59	25.1	14.69
14/02/2023	12.7	10.87	11.9	8.47	17.5	12.59	24.2	14.72
15/02/2023	16.8	10.88	13.3	8.46	21.8	12.58	11.9	14.70
16/02/2023	25.6	10.90	19.3	8.48	28.8	12.60	10.2	14.68
17/02/2023	28.1	10.93	17.7	8.47	32.7	12.62	26.5	14.70
18/02/2023	19.2	10.94	22.8	8.50	25.7	12.65	27.1	14.72
19/02/2023	21.2	10.96	21.5	8.51	22.8	12.65	22.6	14.73
20/02/2023	23.3	10.99	26.0	8.54	24.3	12.66	29.1	14.77
21/02/2023	16.3	10.99	18.9	8.55	27.8	12.68	25.6	14.79
22/02/2023	5.7	10.98	5.0	8.55	6.2	12.65	5.0	14.75
23/02/2023	13.8	10.99	14.2	8.56	16.8	12.66	11.8	14.75
24/02/2023	13.7	11.01	11.7	8.57	16.4	12.67	17.1	14.77
25/02/2023	15.3	11.03	13.9	8.59	19.1	12.69	13.4	14.76
26/02/2023	12.5	11.04	9.1	8.58	16.3	12.70	20.3	14.78
27/02/2023	18.2	11.07	13.0	8.60	22.1	12.72	20.8	14.81
28/02/2023	15.8	11.09	24.4	8.65	21.7	12.75	21.8	14.83
1/02/2023	20.1	10.61	12.5	8.26	17.6	12.29	17.5	14.19
2/02/2023	16.3	10.62	13.6	8.26	17.616	12.29	34.8	14.21
3/02/2023	14.6	10.64	9.3	8.28	22.3	12.33	36.5	14.29

*NaN >75% of data collected during period

Meteorological Monitoring

Monitoring Frequency: Continuous

Sampling Method: Site Meteorological Station EPA17

Limits: Nil

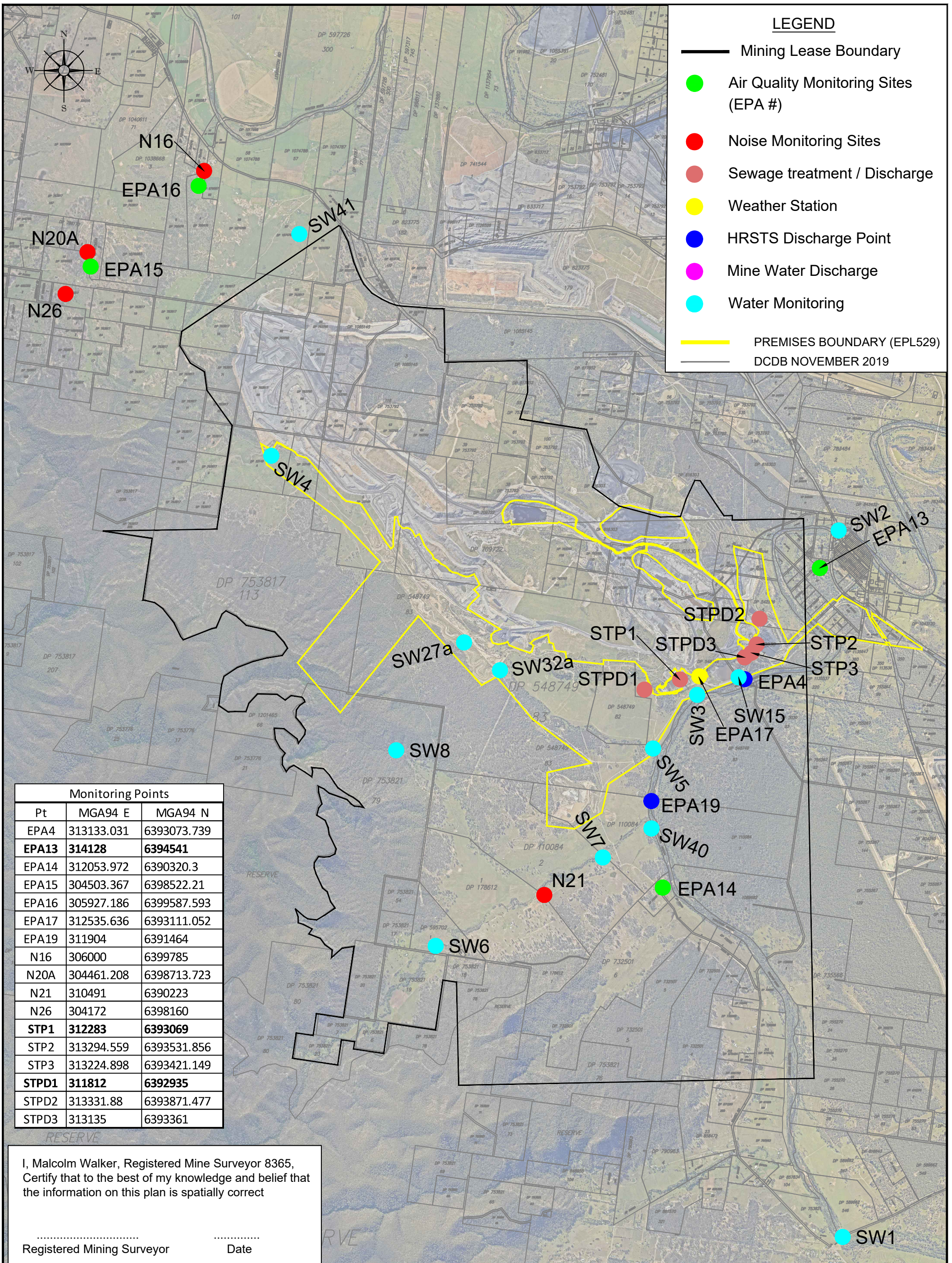
Date sampled: continuous

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
1/02/2023	24.9	18	33.4	24.7	18.4	32.6	76.4	41.8	100	345	1204	0	1.2	0.1	6.1	91	28.3	92.9	13.1
2/02/2023	27.4	19.6	36	27.1	20.9	35	64.1	25.5	100	378.6	1234.8	0	1	0.3	5.5	273	23.6	68.5	7.6
3/02/2023	24.6	15.7	33	24.6	16.2	31.7	58.1	29.7	100	401.5	1184.5	0	2.2	0.2	5.9	285	16.1	29.6	7.4
4/02/2023	22	14.5	30	22.1	15.9	28.8	56.6	26.3	99.4	414.2	1216	0	1.7	0.1	6.1	289	19.2	64.8	7.7
5/02/2023	22.3	10.6	32.6	22.4	12.3	31.8	61.8	30	100	401.8	1192.2	0	0.7	0	5.6	95	27.0	98.1	8.8
6/02/2023	25.3	17.5	33.9	24.8	18.2	32.8	73.8	39.6	100	382.2	1153.8	0	1.7	0.1	5.6	104	30.6	81.8	10.9
7/02/2023	25.7	20.9	32.7	25.1	20.7	31.3	76.5	46.9	100	343.5	1236.7	0	2.7	1.1	6.4	113	23.5	38.1	13.9
8/02/2023	24.9	20.7	31	24.3	20.6	29.4	73.6	46.7	94.3	288.8	1200.9	0	2.8	1	5.9	113	23.1	34.7	14.5
9/02/2023	22.3	19.7	27.1	21.9	19	26.2	88.5	59	100	136.2	1066.2	8.4	0.5	0.1	3.2	116	25.6	68.2	9.5
10/02/2023	24.9	16.5	33.8	24.5	16.9	33	72.2	35.8	100	381.3	1163.9	0	0.2	0.1	4	339	28.4	94.2	4.5
11/02/2023	27.5	16.4	38.5	27.2	16.7	37.5	62.7	25.5	100	380.1	1245.2	0	1.4	0.1	4.6	296	21.7	94.4	4.2
12/02/2023	25.7	15	36	25.5	15.6	35.2	67.4	24.7	100	384.5	1179.4	0	1	0.1	6.3	109	26.5	95.2	7.6
13/02/2023	23.6	20.6	28.1	23	20.3	26.9	81.8	57.6	100	236.2	1238	0.2	2.5	0.7	6	126	24.2	57.8	13.2
14/02/2023	21.4	19.5	23.6	21	19.4	22.9	89.1	75.6	100	114.1	768.5	0	1.8	0.4	5.2	141	25.2	41.9	12.8
15/02/2023	23.3	16.6	29.9	22.8	17.1	28.6	72	44.7	100	320.6	1237.5	0	1.8	0.3	4.8	112	27.6	67.6	10.2
16/02/2023	24	12.8	34	23.6	13.2	32.7	68	35	100	369.4	1123.2	0	0.8	0.1	4.8	93	28.4	97.6	4.6
17/02/2023	26	15.6	36.6	25.7	15.8	35.4	68.4	31.3	100	352.8	1093.7	0	0.8	0.1	5.5	98	27.3	75.4	5.1
18/02/2023	26.2	16.4	40.2	25.8	16.6	38.7	73.7	26.9	100	311.8	1081	12.4	0.6	0.1	11	292	27.6	87.3	5.8
19/02/2023	24.8	19.1	31.9	24.1	18.7	30.6	83.5	56.6	100	291	1203.9	0.2	1.6	0.1	4.7	126	23.0	57.3	6.3
20/02/2023	26.4	20.5	34.2	25.9	20.6	33	78.5	41.1	100	286.1	1104.8	0	1.1	0.1	4	96	25.8	81.6	10.6
21/02/2023	25.3	17.9	33.2	24.8	18	32.2	77.9	41.3	100	289.8	1220.4	0	1.4	0.1	6.5	131	28.8	93.2	8.9
22/02/2023	20	18.3	24.1	19.4	17.3	23.6	95.5	82.5	100	37.6	245.3	46	2.4	0.4	4	164	24.3	41.3	14.4
23/02/2023	20.6	16.7	25.3	20	16.6	24	82.9	63.1	100	208.6	1097	0.6	2.3	0.8	6.3	116	24.2	47.0	11.8
24/02/2023	21.9	16.6	27.9	21.3	16.4	26.5	74.4	43.6	100	273.1	1346.3	0	1.8	0.1	4.8	115	27.1	61.2	10.9
25/02/2023	21.9	14.2	29.6	21.4	14.1	28.8	73	36.4	100	366.9	1146.2	0	0.3	0.1	5.5	144	34.3	89.7	9.1
26/02/2023	24.4	14	35.9	24	13.9	35	70.4	29.9	100	344.6	1142.7	0	0.9	0.1	4.4	296	24.8	84.0	4.4
27/02/2023	24.5	17.5	36.1	24	17.4	34.7	80.6	33.9	100	272.5	1250.4	1.4	0.1	0.2	6	155	25.6	71.4	9.4
28/02/2023	24.5	21	30	23.9	20.6	28.9	86	60.2	100	245.7	1182.8	0	1.6	0.3	5	111	22.3	51.9	10.5
Total	23.7	13.7	39.1	23.8	14.3	38.4	63.8	18.1	100	248.0	1230.5	0.01	2.1	0	11	166.6	25.4	98.1	4.2

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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

 WAMBO COAL PTY LIMITED ABN 13 000 668 057 Jerry's Plains Rd, Warkworth Phone: 02 65 702200 Via Singleton, NSW, 2330 Fax: 02 65 702290	Wambo mine Environment Protection Licence 529 Plan of Premises- Monitoring Sites				Drawing No. 2672-2
	Date: _____ Scale: 1:45,000 Drawn: MJW Checked: JB Approved: PJ	Prepared by NWU Survey Ph: 02 65 702318			Revision No. J_26/11/2020 Sheet Size A3