

WAMBO COAL
POLLUTION MONITORING DATA
1 OCTOBER 2024 – 31 OCTOBER 2024
OCTOBER MONTHLY REPORT

Published 13 November 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 (μ S/cm) | TSS (mg/L) | Comments |
|----------|---------|------|----|------------------|------------|----------|
| Point 24 | SW01 | | | | | |
| Point 25 | SW02 | | | | | |
| Point 26 | SW03 | | | | | |
| Point 27 | SW04 | | | | | |
| Point 28 | SW05 | | | | | |
| Point 29 | SW06 | | | | | |
| Point 30 | SW07 | | | | | |
| Point 31 | SW08 | | | | | |
| Point 33 | SW15 | | | | | |
| Point 34 | SW27a | | | | | |
| Point 36 | SW32a | | | | | |
| Point 39 | SW39 | | | | | |
| Point 40 | SW40 | | | | | |
| Point 41 | SW41 | | | | | |
| Point 42 | SW54 | | | | | |

No Data

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 October | | | | | | |
| Point 19 | No Discharge in October | | | | | | |

Sewerage Treatment Monitoring

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

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 |
| 1/10/2024 | 15.2 | 14.91 | 12.4 | 11.33 | 19.7 | 18.34 | 14.5 | 22.52 |
| 2/10/2024 | 14.0 | 14.81 | 16.1 | 11.28 | 30.4 | 18.28 | 20.6 | 22.46 |
| 3/10/2024 | 11.3 | 14.76 | 14.3 | 11.27 | 20.7 | 18.26 | 13.9 | 22.31 |
| 4/10/2024 | 15.8 | 14.73 | 12.4 | 11.26 | 20.0 | 18.23 | 26.4 | 22.27 |
| 5/10/2024 | 9.6 | 14.74 | 7.7 | 11.27 | 12.6 | 18.25 | 32.4 | 22.33 |
| 6/10/2024 | 10.0 | 14.73 | 6.8 | 11.27 | 11.9 | 18.24 | 34.7 | 22.38 |
| 7/10/2024 | 13.2 | 14.73 | 7.5 | 11.26 | 12.5 | 18.21 | 30.1 | 22.43 |
| 8/10/2024 | 11.1 | 14.72 | 10.6 | 11.26 | 23.1 | 18.20 | 18.7 | 22.44 |
| 9/10/2024 | 8.8 | 14.70 | 7.8 | 11.27 | 13.9 | 18.20 | 12.2 | 22.43 |
| 10/10/2024 | 12.7 | 14.69 | 10.1 | 11.25 | 19.0 | 18.13 | 16.2 | 22.42 |
| 11/10/2024 | 21.1 | 14.68 | 19.7 | 11.25 | 29.6 | 18.11 | 19.1 | 22.40 |
| 12/10/2024 | 15.7 | 14.66 | 13.1 | 11.25 | 27.6 | 18.13 | 24.1 | 22.36 |
| 13/10/2024 | 13.8 | 14.68 | 12.4 | 11.27 | 20.0 | 18.16 | 20.9 | 22.37 |
| 14/10/2024 | 10.2 | 14.68 | 7.4 | 11.27 | 12.8 | 18.16 | 16.8 | 22.30 |
| 15/10/2024 | 10.0 | 14.66 | 3.8 | 11.26 | 11.6 | 18.13 | 9.1 | 22.24 |
| 16/10/2024 | 8.3 | 14.62 | 3.1 | 11.23 | 15.1 | 18.07 | 13.6 | 22.15 |
| 17/10/2024 | 12.2 | 14.61 | 7.8 | 11.23 | 15.1 | 18.02 | 5.6 | 22.12 |
| 18/10/2024 | 12.6 | 14.58 | 10.7 | 11.22 | 12.8 | 17.86 | 25.4 | 22.15 |
| 19/10/2024 | 8.5 | 14.54 | 5.6 | 11.18 | 10.0 | 17.78 | 8.2 | 22.12 |
| 20/10/2024 | 14.2 | 14.50 | 14.3 | 11.17 | 18.5 | 17.74 | 20.2 | 22.07 |
| 21/10/2024 | 10.8 | 14.44 | 11.1 | 11.12 | 19.1 | 17.65 | 11.7 | 21.99 |
| 22/10/2024 | 23.7 | 14.44 | 17.2 | 11.12 | 28.4 | 17.63 | 35.2 | 21.96 |
| 23/10/2024 | 17.3 | 14.42 | 13.9 | 11.12 | 22.0 | 17.62 | 51.1 | 21.98 |
| 24/10/2024 | 15.7 | 14.40 | 13.7 | 11.11 | 24.9 | 17.61 | 27.0 | 21.87 |
| 25/10/2024 | 10.8 | 14.30 | 8.8 | 11.06 | 16.0 | 17.55 | 10.7 | 21.78 |
| 26/10/2024 | 17.0 | 14.30 | 13.9 | 11.07 | 35.8 | 17.59 | 22.4 | 21.80 |
| 27/10/2024 | 18.2 | 14.33 | 9.7 | 11.09 | 24.9 | 17.63 | 31.4 | 21.86 |
| 28/10/2024 | 19.9 | 14.36 | 13.2 | 11.10 | 25.8 | 17.66 | 28.0 | 21.90 |
| 29/10/2024 | 25.0 | 14.38 | 21.6 | 11.13 | 43.6 | 17.74 | 26.5 | 21.93 |
| 30/10/2024 | 19.6 | 14.36 | 16.2 | 11.14 | 35.2 | 17.78 | 34.2 | 21.89 |
| 31/10/2024 | 24.2 | 14.35 | 14.3 | 11.12 | 30.2 | 17.78 | 24.0 | 21.79 |

*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 |
| 1/10/2024 | 19.2 | 12.1 | 24.0 | 18.9 | 12.6 | 23.5 | 58.4 | 36.1 | 99.3 | 322.1 | 788.3 | 0.0 | 1.4 | 0.1 | 3.4 | 145.1 | 31.4 | 84.2 | 10.1 |
| 2/10/2024 | 16.8 | 13.8 | 20.5 | 16.7 | 13.7 | 19.9 | 72.3 | 57.0 | 99.9 | 121.4 | 768.8 | 0.4 | 2.1 | 0.6 | 4.8 | 133.4 | 17.8 | 32.8 | 8.7 |
| 3/10/2024 | 16.0 | 10.1 | 21.9 | 16.0 | 10.7 | 21.3 | 71.7 | 40.8 | 100.0 | 211.4 | 882.0 | 0.0 | 1.9 | 0.1 | 5.2 | 149.0 | 22.9 | 87.6 | 7.5 |
| 4/10/2024 | 17.5 | 5.8 | 26.1 | 17.6 | 6.7 | 25.6 | 64.1 | 34.4 | 100.0 | 199.6 | 790.4 | 0.0 | 1.8 | 0.0 | 4.6 | 258.0 | 24.8 | 84.2 | 8.9 |
| 5/10/2024 | 21.0 | 12.3 | 27.8 | 21.1 | 14.2 | 27.3 | 53.6 | 25.9 | 81.9 | 183.1 | 819.5 | 0.0 | 3.3 | 0.1 | 5.8 | 269.8 | 24.7 | 92.9 | 10.8 |
| 6/10/2024 | 22.2 | 11.6 | 28.8 | 22.5 | 13.3 | 28.4 | 41.1 | 23.5 | 78.7 | 268.1 | 813.5 | 0.0 | 3.3 | 0.3 | 5.9 | 289.2 | 22.0 | 83.6 | 8.9 |
| 7/10/2024 | 19.9 | 8.1 | 30.5 | 20.4 | 8.9 | 30.0 | 53.5 | 17.3 | 100.0 | 245.9 | 817.0 | 0.0 | 2.1 | 0.1 | 5.9 | 227.3 | 24.9 | 80.4 | 8.4 |
| 8/10/2024 | 15.6 | 11.4 | 21.8 | 15.9 | 12.5 | 21.1 | 76.4 | 59.3 | 97.4 | 101.6 | 683.6 | 0.0 | 2.1 | 0.1 | 5.0 | 136.1 | 22.4 | 85.0 | 6.8 |
| 9/10/2024 | 13.8 | 12.4 | 15.5 | 13.7 | 12.1 | 15.2 | 81.6 | 68.7 | 99.9 | 65.5 | 490.9 | 1.8 | 2.2 | 0.7 | 4.5 | 152.1 | 17.0 | 44.4 | 7.9 |
| 10/10/2024 | 16.6 | 11.3 | 25.9 | 16.8 | 11.8 | 25.5 | 73.8 | 35.9 | 100.0 | 134.6 | 717.9 | 0.4 | 0.9 | 0.0 | 2.3 | 200.0 | 29.0 | 88.1 | 10.1 |
| 11/10/2024 | 18.7 | 9.5 | 27.9 | 18.9 | 10.2 | 27.4 | 71.7 | 37.0 | 100.0 | 225.3 | 796.4 | 0.0 | 1.1 | 0.0 | 2.5 | 151.2 | 29.4 | 94.3 | 7.7 |
| 12/10/2024 | 16.4 | 12.7 | 18.7 | 16.4 | 13.4 | 18.6 | 72.6 | 57.1 | 99.9 | 59.1 | 393.9 | 0.0 | 2.6 | 0.2 | 4.8 | 152.9 | 19.9 | 85.8 | 7.8 |
| 13/10/2024 | 16.6 | 12.2 | 22.3 | 16.4 | 12.2 | 21.7 | 68.6 | 43.7 | 100.0 | 179.9 | 884.4 | 0.4 | 2.2 | 0.7 | 4.2 | 121.1 | 18.4 | 40.7 | 8.5 |
| 14/10/2024 | 15.1 | 8.2 | 20.6 | 15.2 | 8.6 | 20.1 | 84.5 | 64.3 | 100.0 | 78.8 | 263.3 | 19.4 | 1.6 | 0.0 | 4.4 | 237.6 | 28.7 | 96.6 | 5.4 |
| 15/10/2024 | 14.8 | 12.3 | 18.0 | 14.8 | 13.0 | 17.7 | 95.1 | 77.8 | 100.0 | 54.7 | 261.8 | 1.4 | 1.2 | 0.1 | 4.3 | 145.4 | 23.6 | 90.1 | 7.3 |
| 16/10/2024 | 13.8 | 10.8 | 17.0 | 13.8 | 11.2 | 16.6 | 93.4 | 64.3 | 100.0 | 59.1 | 278.5 | 5.6 | 0.8 | 0.2 | 1.6 | 175.6 | 18.9 | 51.0 | 7.5 |
| 17/10/2024 | 15.8 | 7.0 | 24.5 | 15.8 | 7.5 | 24.0 | 83.2 | 50.6 | 100.0 | 217.6 | 866.7 | 0.2 | 0.9 | 0.0 | 2.4 | 172.7 | 30.8 | 99.0 | 5.9 |
| 18/10/2024 | 20.5 | 16.1 | 27.7 | 20.5 | 16.1 | 27.4 | 87.0 | 58.5 | 100.0 | 104.3 | 599.1 | 14.8 | 1.6 | 0.0 | 4.8 | 236.0 | 29.7 | 88.2 | 7.0 |
| 19/10/2024 | 20.9 | 16.3 | 27.3 | 20.8 | 16.4 | 26.7 | 78.5 | 47.6 | 99.9 | 180.2 | 899.1 | 1.6 | 2.6 | 0.2 | 5.0 | 254.7 | 22.4 | 64.3 | 6.8 |
| 20/10/2024 | 18.3 | 13.1 | 24.3 | 18.3 | 13.9 | 23.8 | 77.7 | 49.5 | 100.0 | 217.8 | 924.8 | 0.4 | 1.9 | 0.0 | 5.2 | 137.8 | 23.2 | 90.2 | 7.0 |
| 21/10/2024 | 17.8 | 11.8 | 22.2 | 17.7 | 12.2 | 21.5 | 62.2 | 44.0 | 99.9 | 173.6 | 1028.8 | 0.0 | 1.9 | 0.1 | 3.8 | 144.4 | 22.7 | 89.5 | 8.8 |
| 22/10/2024 | 18.0 | 10.6 | 26.3 | 18.1 | 11.5 | 25.7 | 66.1 | 34.2 | 99.9 | 250.7 | 896.2 | 0.0 | 1.0 | 0.2 | 2.2 | 169.0 | 31.8 | 90.6 | 5.8 |
| 23/10/2024 | 20.8 | 8.8 | 30.9 | 21.0 | 9.5 | 30.7 | 62.7 | 29.4 | 100.0 | 217.3 | 914.4 | 0.0 | 1.7 | 0.0 | 5.8 | 240.2 | 28.9 | 93.9 | 6.9 |
| 24/10/2024 | 19.7 | 13.8 | 27.9 | 19.9 | 14.6 | 27.3 | 73.5 | 34.2 | 99.9 | 182.3 | 946.2 | 3.0 | 1.6 | 0.2 | 5.1 | 153.3 | 32.5 | 93.1 | 7.8 |
| 25/10/2024 | 17.6 | 10.2 | 25.0 | 17.5 | 11.0 | 24.7 | 57.9 | 17.7 | 99.9 | 269.1 | 888.9 | 0.2 | 1.9 | 0.1 | 6.1 | 181.3 | 33.8 | 95.7 | 10.4 |
| 26/10/2024 | 16.3 | 11.1 | 21.6 | 16.1 | 11.4 | 21.2 | 54.3 | 31.3 | 84.0 | 265.1 | 974.0 | 0.0 | 1.7 | 0.0 | 5.2 | 121.2 | 28.0 | 91.1 | 6.3 |
| 27/10/2024 | 17.7 | 10.0 | 27.2 | 17.9 | 10.6 | 26.7 | 59.0 | 23.7 | 94.1 | 217.7 | 885.9 | 0.0 | 1.4 | 0.1 | 3.8 | 243.2 | 28.8 | 91.1 | 8.7 |
| 28/10/2024 | 19.4 | 7.3 | 31.5 | 19.6 | 8.4 | 30.8 | 61.4 | 18.1 | 100.0 | 227.7 | 958.6 | 0.0 | 2.0 | 0.1 | 5.8 | 205.7 | 26.1 | 97.8 | 6.5 |
| 29/10/2024 | 19.5 | 15.2 | 25.5 | 19.3 | 15.7 | 24.8 | 63.0 | 40.9 | 79.9 | 207.9 | 1046.8 | 0.0 | 1.7 | 0.4 | 4.7 | 123.4 | 26.9 | 85.9 | 9.6 |
| 30/10/2024 | 21.0 | 11.4 | 31.1 | 21.3 | 12.7 | 30.6 | 60.5 | 23.8 | 100.0 | 269.9 | 861.6 | 0.0 | 1.4 | 0.1 | 4.1 | 205.0 | 30.9 | 92.2 | 8.0 |
| 31/10/2024 | 21.5 | 9.3 | 31.4 | 21.7 | 10.0 | 30.9 | 53.1 | 18.4 | 100.0 | 217.6 | 919.5 | 0.0 | 1.6 | 0.1 | 5.9 | 190.3 | 30.2 | 79.4 | 7.5 |
| Total | 18.0 | 5.8 | 31.5 | 18.1 | 6.7 | 30.9 | 68.9 | 17.3 | 100 | 183.6 | 1046.8 | 49.6 | 1.8 | 0.0 | 6.1 | 184.6 | 25.8 | 99.0 | 5.4 |

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