



Rocglen Coal Mine- Monthly Monitoring Summary

Site Information

EPL No: 12870

EPA Website Link: <http://epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=40278&SYSUID=1&LICID=12870>

Licensee: Whitehaven Coal Mining Pty Ltd

Licensee Address: Rocglen Coal Mine, Wean Road, GUNNEDAH NSW 2380

EPL Monitoring Points: See Figure 1 below

Sampling Period: February 2018

Obtained Date: 9th March 2018

Publication Date: 19th March 2018

Table 1 - No Pollutant Limits Apply

| EPL ID | Pollutant | Units of Measure | Monitoring Frequency | No. of Samples for the Month | Date(s) Sampled | Date(s) Obtained | Min Value | Mean Value | Median Value | Max or Only Value |
|--------|-------------------------------|-------------------------|-----------------------|------------------------------|-----------------|------------------|-----------|------------|--------------|-------------------|
| 4 | Particulates-Deposited Matter | g/m ² /month | Continuous | 1 | 16/02/18 | 9/03/18 | - | - | - | 2.3 |
| 6 | Particulates-Deposited Matter | g/m ² /month | Continuous | 1 | 16/02/18 | 9/03/18 | - | - | - | 1.3 |
| 7 | Particulates-Deposited Matter | g/m ² /month | Continuous | 1 | 16/02/18 | 9/03/18 | - | - | - | 0.9 |
| 10 | PM ₁₀ | µg/m ³ | Every 6 days | 4 | Various | 9/03/18 | 3.7 | 15.7 | 15.0 | 28.4 |
| 11 | Conductivity | µS/cm | Special Frequency 1* | - | - | - | - | - | - | - |
| | Total organic carbon | mg/L | | | | | - | - | - | - |
| 12 | Conductivity | µS/cm | Special Frequency 1* | - | - | - | - | - | - | - |
| | Total organic carbon | mg/L | | | | | - | - | - | - |
| 13 | TSS | mg/L | Special Frequency 2** | - | - | - | - | - | - | - |
| | Conductivity | µS/cm | | | | | - | - | - | - |
| | Oil & Grease | mg/L | | | | | - | - | - | - |
| | pH | pH | | | | | - | - | - | - |
| | Total organic carbon | mg/L | | | | | - | - | - | - |



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| EPL ID | Pollutant | Units of Measure | Monitoring Frequency | No. of Samples for the Month | Date(s) Sampled | Date(s) Obtained | Min Value | Mean Value | Median Value | Max or Only Value |
|--------|----------------------|------------------|-----------------------|------------------------------|-----------------|------------------|-----------|------------|--------------|-------------------|
| 14 | TSS | mg/L | Special Frequency 2** | - | - | - | - | - | - | - |
| | Conductivity | µS/cm | | | | | - | - | - | - |
| | Oil & Grease | mg/L | | | | | - | - | - | - |
| | pH | pH | | | | | - | - | - | - |
| | Total organic carbon | mg/L | | | | | - | - | - | - |
| 15 | TSS | mg/L | Special Frequency 2** | - | - | - | - | - | - | - |
| | Conductivity | µS /cm | | | | | - | - | - | - |
| | Oil & Grease | mg/L | | | | | - | - | - | - |
| | pH | pH | | | | | - | - | - | - |
| | Total organic carbon | mg/L | | | | | - | - | - | - |

Table 2 - Pollutant Limits Apply

| EPL ID | Pollutant | Units of Measure | Monitoring Frequency | No. of Samples for the Month | Date(s) Sampled | Date(s) Obtained | Min Value | Max or Only Value | 100%ile Limit | Exceedance (Yes/No) | Comments |
|--------|--------------|------------------|----------------------|------------------------------|-----------------|------------------|-----------|-------------------|---------------|---------------------|----------|
| 11 | TSS | mg/L | Special Frequency 1* | - | - | - | - | - | 50 | No | - |
| | Oil & Grease | mg/L | | | | | - | - | 10 | No | |
| | pH | pH | | | | | - | - | 6.5-8.5 | No | |
| 12 | TSS | mg/L | Special Frequency 1* | - | - | - | - | - | 50 | No | - |
| | Oil & Grease | mg/L | | | | | - | - | 10 | No | |
| | pH | pH | | | | | - | - | 6.5-8.5 | No | |

* Special Frequency 1 means the collection of samples as soon as practicable after each discharge commences and in any case not more than 12 hours after each discharge commences.

** Special Frequency 2 means collection of samples quarterly (in the event of flow during the quarter) at a time when there is flow and as soon as practicable after each wet weather discharge from points 11 and 12 commences and in any case not more than 12 hours after each discharge commences.



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Table 3 – Monitoring (Quarterly & Yearly – No Limits apply)

| EPL ID | Pollutant | Units of Measure | Monitoring Frequency | No. of Samples for the Month | Date Sampled | Date Obtained | Min Value | Mean Value | Median Value | Max Value/Only Value |
|--------|--------------|------------------|----------------------|------------------------------|--------------|---------------|-----------|------------|--------------|----------------------|
| 16 | Aluminium | mg/L | Yearly | - | - | - | - | - | - | - |
| | Arsenic | mg/L | | | | | - | - | - | - |
| | Bicarbonate | mg/L | | | | | - | - | - | - |
| | Chloride | mg/L | | | | | - | - | - | - |
| | Iron | mg/L | | | | | - | - | - | - |
| | Manganese | mg/L | | | | | - | - | - | - |
| | Sodium | mg/L | | | | | - | - | - | - |
| 16 | Conductivity | µS/cm | Quarterly | 1 | 26/02/18 | 6/03/18 | - | - | - | 1920 |
| | Oil & Grease | mg/L | | | | | - | - | - | <5 |
| | pH | pH | | | | | - | - | - | 8.90 |
| | TOC | mg/L | | | | | - | - | - | 2 |
| | TSS | mg/L | | | | | - | - | - | 24 |



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Table 4 – Monitoring (Noise – Limits Apply)

| EPL ID | Date | Start Time | Period (mins) | Rocglen Measured Levels – dB(A) <small>L_{eq} 15min Day</small> | Rocglen Measured Levels – dB(A) <small>L_{eq} 15min Evening</small> | Rocglen Measured Levels – dB(A) <small>L_{eq} 15min Night</small> | Rocglen Measured Levels – dB(A) <small>L_A 1min Night</small> | Limits | Wind speed (m/s) | Compliant (Y/N) | Comments |
|--------|------|------------|---------------|--|--|--|--|---|------------------|-----------------|----------|
| N1 | - | - | 90 | | | | | 35 dB(A) Leq (15 min) Day, Evening, Night 45dB(A) L _A (1 min) Night | - | - | |
| | | - | 30 | | | | | | - | - | |
| | | - | 60 | | | | | | - | - | |
| | | - | 60 | | | | | | - | - | |
| | - | 90 | | | | | - | | - | | |
| | - | 30 | | | | | - | | - | | |
| | - | 60 | | | | | - | | - | | |
| | - | 60 | | | | | - | | - | | |
| | - | 90 | | | | | - | | - | | |
| | - | 30 | | | | | - | | - | | |
| | - | 60 | | | | | - | | - | | |
| | - | 60 | | | | | - | | - | | |
| N2 | - | - | 90 | | | | | 35 dB(A) Leq (15 min) Day, Evening, Night 45dB(A) L _A (1 min) Night | - | - | |
| | | - | 30 | | | | | | - | - | |
| | | - | 60 | | | | | | - | - | |
| | | - | 60 | | | | | | - | - | |
| | - | 90 | | | | | - | | - | | |
| | - | 30 | | | | | - | | - | | |
| | - | 60 | | | | | - | | - | | |
| | - | 60 | | | | | - | | - | | |
| | - | 90 | | | | | - | | - | | |
| | - | 30 | | | | | - | | - | | |
| | - | 60 | | | | | - | | - | | |
| | - | 60 | | | | | - | | - | | |

Note: Measured noise levels are not necessarily the result of activity at Rocglen Coal Mine



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Table 5 – Monitoring (Blasts – Limits Apply)

| EPL ID | Parameter | Units of Measure | Frequency | No. of Blasts for the Month | Average Value | Max or Only Value | 100%ile Limit | (Potential) Non-compliance /breach |
|--------|-----------------|------------------|-------------|-----------------------------|---------------|-------------------|---------------|------------------------------------|
| BB1 | Blast Noise | dB (Lin Peak) | Every Blast | 1 | 108.4 | 108.4 | 120 | No |
| | Blast Vibration | mm/s | Every Blast | | 0.24 | 0.24 | 10 | No |
| BB3 | Blast Noise | dB (Lin Peak) | Every Blast | 1 | 103.0 | 103.0 | 120 | No |
| | Blast Vibration | mm/s | Every Blast | | 0.61 | 0.61 | 10 | No |



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Figure 1 – EPL 12870 Monitoring Locations