



WHITEHAVEN CHPP – MONTHLY MONITORING SUMMARY

Site Information

EPL No: 3637

EPA Website Link: <http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=33514&SYSUID=1&LICID=3637>

Licensee: Whitehaven Coal Mining Limited

Licensee Address: Boggabri Road, Gunnedah NSW 2380

EPL Monitoring Points: See Figure 1 below

Sampling Period: January 2021

Obtained Date: 10 February 2021

Publication Date: 18 February 2021

Table 1 - No Pollutant Limits Apply

| EPL ID | Pollutant | Units of Measure | Monitoring Frequency | No. of Measurements for the Month | Date Sampled | Date Obtained | Min Value | Mean Value | Median Value | Max or Only Value |
|--------|------------------------|-------------------------|----------------------|-----------------------------------|--------------|---------------|-----------|------------|--------------|-------------------|
| 3 | Solid Particles | g/m ² /month | Continuous | 1 | 15/01/21 | 1/02/21 | - | - | - | 1.6 |
| 11 | PM ₁₀ | µg/m ³ | Every 6 days | 5 | Various | 10/02/21 | 4.9 | 14.9 | 13.9 | 24.7 |
| 12 | PM ₁₀ | µg/m ³ | Every 6 days | 5 | Various | 10/02/21 | 4.9 | 12.04 | 13.9 | 20.2 |
| 6 | Conductivity | µs/cm | Each overflow event | 0 | - | - | - | - | - | - |
| | Oil and Grease | mg/L | | 0 | - | - | - | - | - | - |
| | Total Organic Carbon | mg/L | | 0 | - | - | - | - | - | - |
| | Total Suspended Solids | mg/L | | 0 | - | - | - | - | - | - |
| | pH | pH | | 0 | - | - | - | - | - | - |
| 7 | Conductivity | µs/cm | Quarterly | 0 | - | - | - | - | - | - |
| | Oil and Grease | mg/L | | | | | - | - | - | - |
| | Total Organic Carbon | mg/L | | | | | - | - | - | - |
| | Total Suspended Solids | mg/L | | | | | - | - | - | - |
| | pH | pH | | | | | - | - | - | - |



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Table 2 – Groundwater Monitoring (Quarterly – No Limits apply)

| EPL ID | Pollutant | Units of Measure | Monitoring Frequency | No. of Samples for the Period | Date Sampled | Date Obtained | Min Value | Mean Value | Median Value | Max or Only Value |
|--------|----------------------|------------------|----------------------|-------------------------------|--------------|---------------|-----------|------------|--------------|-------------------|
| 8 | Ammonia | mg/L | Quarterly | 0 | - | - | - | - | - | - |
| | Bicarbonate | mg/L | | | | | - | - | - | - |
| | Calcium | mg/L | | | | | - | - | - | - |
| | Chloride | mg/L | | | | | - | - | - | - |
| | Conductivity | µs/cm | | | | | - | - | - | - |
| | Lead | mg/L | | | | | - | - | - | - |
| | Magnesium | mg/L | | | | | - | - | - | - |
| | Nitrate | mg/L | | | | | - | - | - | - |
| | Potassium | mg/L | | | | | - | - | - | - |
| | Sodium | mg/L | | | | | - | - | - | - |
| | Standing Water Level | m | | | | | - | - | - | - |
| | Sulphate | mg/L | | | | | - | - | - | - |
| pH | pH | - | - | - | - | | | | | |
| 9 | Ammonia | mg/L | Quarterly | 0 | - | - | - | - | - | - |
| | Bicarbonate | mg/L | | | | | - | - | - | - |
| | Calcium | mg/L | | | | | - | - | - | - |
| | Chloride | mg/L | | | | | - | - | - | - |
| | Conductivity | µs/cm | | | | | - | - | - | - |
| | Lead | mg/L | | | | | - | - | - | - |
| | Magnesium | mg/L | | | | | - | - | - | - |
| | Nitrate | mg/L | | | | | - | - | - | - |



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| EPL ID | Pollutant | Units of Measure | Monitoring Frequency | No. of Samples for the Period | Date Sampled | Date Obtained | Min Value | Mean Value | Median Value | Max or Only Value |
|--------|----------------------|------------------|----------------------|-------------------------------|--------------|---------------|-----------|------------|--------------|-------------------|
| | Potassium | mg/L | | | | | - | - | - | - |
| | Sodium | mg/L | | | | | - | - | - | - |
| | Standing Water Level | m | | | | | - | - | - | - |
| | Sulphate | mg/L | | | | | - | - | - | - |
| | pH | pH | | | | | - | - | - | - |
| 10 | Ammonia | mg/L | Quarterly | 0 | - | - | - | - | - | - |
| | Bicarbonate | mg/L | | | | | - | - | - | - |
| | Calcium | mg/L | | | | | - | - | - | - |
| | Chloride | mg/L | | | | | - | - | - | - |
| | Conductivity | µs/cm | | | | | - | - | - | - |
| | Lead | mg/L | | | | | - | - | - | - |
| | Magnesium | mg/L | | | | | - | - | - | - |
| | Nitrate | mg/L | | | | | - | - | - | - |
| | Potassium | mg/L | | | | | - | - | - | - |
| | Sodium | mg/L | | | | | - | - | - | - |
| | Standing Water Level | m | | | | | - | - | - | - |
| | Sulphate | mg/L | | | | | - | - | - | - |
| | pH | pH | | | | | - | - | - | - |



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Table 3 – Monitoring (Quarterly Noise – Limits Apply)

| EPL ID | Date | Measurement Period | Measured levels – CHPP – dB(A) | | Limit(s)- dB(A) | Wind speed (m/s) | Observations | (Potential) Non-compliance /breach |
|--------|------|--------------------|--------------------------------|------------------------------|-----------------|------------------|--------------|------------------------------------|
| | | | L _{A1} , 1 minute | L _{Aeq} , 15 minute | | | | |
| N1 | - | 15 mins day | - | | | | | |
| | | 15 mins evening | - | | | | | |
| | | 15 mins night | - | | | | | |
| | | 1 min night | | - | | | | |

Notes:

dB(A): The overall level of a sound is usually expressed in terms of dBA, which is measured using a sound level meter with an “A-weighting” filter. This is an electronic filter having a frequency response corresponding approximately to that of human hearing.

L_{Aeq}, 15 minute: The A-weighted equivalent noise level (basically the average noise level). It is defined as the steady sound level that contains the same amount of acoustical energy as the corresponding time-varying sound, in this instance over a period of 15 minutes.

L_{A1}, 1 minute: The noise level exceeded for 1% of the 15 minute interval.

I/A: When site noise is noted as inaudible (I/A), no site noise was audible at the monitoring location.

Not Measurable (NM): indicates that some site noise was audible, but indeterminate due to one of the following reasons:

- site noise levels were insignificant and unlikely, in many cases, to be even noticed; or
- site noise levels were masked by another relatively loud noise source, but were estimated to be less than LAeq 30 dB, which is insignificant in terms of any applicable criterion.



WHITEHAVEN COAL

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Figure 1 – EPL 3637 Monitoring Locations

