



## WHITEHAVEN CHPP – MONTHLY MONITORING SUMMARY

### Site Information

EPL No: 3637

EPA Website Link: <http://www.environment.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=29173&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: October 2012

Publication Date: 21<sup>st</sup> November 2012

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 |
|--------|------------------------|-------------------------|----------------------|-----------------------------------|--------------|---------------|-----------|------------|--------------|-------------------|
| 1      | Solid Particles        | g/m <sup>2</sup> /month | Continuous           | 1                                 | 19/10/12     | 31/10/12      | -         | -          | -            | 2.2               |
| 2      | Solid Particles        | g/m <sup>2</sup> /month | Continuous           | 1                                 | 19/10/12     | 31/10/12      | -         | -          | -            | 0.5               |
| 3      | Solid Particles        | g/m <sup>2</sup> /month | Continuous           | 1                                 | 19/10/12     | 31/10/12      | -         | -          | -            | 0.7               |
| 4      | Solid Particles        | g/m <sup>2</sup> /month | Continuous           | 1                                 | 19/10/12     | 31/10/12      | -         | -          | -            | 4.1               |
| 5      | Solid Particles        | g/m <sup>2</sup> /month | Continuous           | 1                                 | 19/10/12     | 31/10/12      | -         | -          | -            | 7.2               |
|        | PM <sub>10</sub>       | µg/m <sup>3</sup>       | Every 6 days         | 5                                 | Various      | 12/11/12      | 10.0      | 22.76      | 24.9         | 38.4              |
| 6      | Conductivity           | ms/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           | ms/cm                   | Quarterly            | 0                                 | -            | -             | -         | -          | -            | -                 |
|        | Oil and Grease         | mg/L                    |                      | 0                                 | -            | -             | -         | -          | -            | -                 |
|        | Total Organic Carbon   | mg/L                    |                      | 0                                 | -            | -             | -         | -          | -            | -                 |
|        | Total Suspended Solids | mg/L                    |                      | 0                                 | -            | -             | -         | -          | -            | -                 |
|        | pH                     | pH                      |                      | 0                                 | -            | -             | -         | -          | -            | -                 |



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Table 2 – 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             |                      | 0                             | -            | -             | -         | -          | -            | -                 |
|        | Calcium              | mg/L             |                      | 0                             | -            | -             | -         | -          | -            | -                 |
|        | Chloride             | mg/L             |                      | 0                             | -            | -             | -         | -          | -            | -                 |
|        | Conductivity         | µs/cm            |                      | 0                             | -            | -             | -         | -          | -            | -                 |
|        | Lead                 | mg/L             |                      | 0                             | -            | -             | -         | -          | -            | -                 |
|        | Magnesium            | mg/L             |                      | 0                             | -            | -             | -         | -          | -            | -                 |
|        | Nitrate              | mg/L             |                      | 0                             | -            | -             | -         | -          | -            | -                 |
|        | Potassium            | mg/L             |                      | 0                             | -            | -             | -         | -          | -            | -                 |
|        | Sodium               | mg/L             |                      | 0                             | -            | -             | -         | -          | -            | -                 |
|        | Standing Water Level | m                |                      | 0                             | -            | -             | -         | -          | -            | -                 |
|        | Sulphate             | mg/L             |                      | 0                             | -            | -             | -         | -          | -            | -                 |
| pH     | pH                   | 0                | -                    | -                             | -            | -             | -         | -          | -            |                   |
| 9      | Ammonia              | mg/L             | Quarterly            | 0                             | -            | -             | -         | -          | -            | -                 |
|        | Bicarbonate          | mg/L             |                      | 0                             | -            | -             | -         | -          | -            | -                 |
|        | Calcium              | mg/L             |                      | 0                             | -            | -             | -         | -          | -            | -                 |
|        | Chloride             | mg/L             |                      | 0                             | -            | -             | -         | -          | -            | -                 |
|        | Conductivity         | µs/cm            |                      | 0                             | -            | -             | -         | -          | -            | -                 |
|        | Lead                 | mg/L             |                      | 0                             | -            | -             | -         | -          | -            | -                 |
|        | Magnesium            | mg/L             |                      | 0                             | -            | -             | -         | -          | -            | -                 |
|        | Nitrate              | mg/L             |                      | 0                             | -            | -             | -         | -          | -            | -                 |
|        | Potassium            | mg/L             |                      | 0                             | -            | -             | -         | -          | -            | -                 |
|        | Sodium               | mg/L             |                      | 0                             | -            | -             | -         | -          | -            | -                 |
|        | Standing Water Level | m                |                      | 0                             | -            | -             | -         | -          | -            | -                 |
|        | Sulphate             | mg/L             |                      | 0                             | -            | -             | -         | -          | -            | -                 |
| pH     | pH                   | 0                | -                    | -                             | -            | -             | -         | -          | -            |                   |
| 10     | Ammonia              | mg/L             | Quarterly            | 0                             | -            | -             | -         | -          | -            | -                 |



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|                      |       |   |   |   |   |   |   |   |
|----------------------|-------|---|---|---|---|---|---|---|
| Bicarbonate          | mg/L  | 0 | - | - | - | - | - | - |
| Calcium              | mg/L  | 0 | - | - | - | - | - | - |
| Chloride             | mg/L  | 0 | - | - | - | - | - | - |
| Conductivity         | µs/cm | 0 | - | - | - | - | - | - |
| Lead                 | mg/L  | 0 | - | - | - | - | - | - |
| Magnesium            | mg/L  | 0 | - | - | - | - | - | - |
| Nitrate              | mg/L  | 0 | - | - | - | - | - | - |
| Potassium            | mg/L  | 0 | - | - | - | - | - | - |
| Sodium               | mg/L  | 0 | - | - | - | - | - | - |
| Standing Water Level | m     | 0 | - | - | - | - | - | - |
| Sulphate             | mg/L  | 0 | - | - | - | - | - | - |
| pH                   | pH    | 0 | - | - | - | - | - | - |

**Table 3 – Monitoring (Quarterly Noise – Limits Apply)**

| EPL ID | Date | Start Time | Measurement Period | Measured levels – All sources – dB(A) |                             | Limit(s)     | Weather | Observations             | (Potential) Non-compliance /breach |
|--------|------|------------|--------------------|---------------------------------------|-----------------------------|--------------|---------|--------------------------|------------------------------------|
|        |      |            |                    | L <sub>A1, 1</sub> Minute             | L <sub>Aeq, 15</sub> Minute |              |         |                          |                                    |
| N1     | -    | -          | -                  |                                       | -                           | Day - 38     | -       | No monitoring this month | -                                  |
|        | -    | -          | -                  |                                       | -                           | Evening - 37 | -       | No monitoring this month | -                                  |
|        | -    | -          | -                  |                                       | -                           | Night - 35   | -       | No monitoring this month | -                                  |
|        | -    | -          | -                  | -                                     |                             | Night - 45   | -       | No monitoring this month | -                                  |

**Figure 1 – EPL 3637 Monitoring Locations**

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