

## NARRABRI MINE – MONTHLY MONITORING SUMMARY

### Site Information

**EPL No:** 12789

**EPA Website Link:** <http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=51648&SYSUID=1&LICID=12789>

**Licensee:** Narrabri Coal Operations Pty Ltd

**Licensee Address:** Narrabri Mine, 10 Kurrajong Creek Road, BAAN BAA NSW 2390

**EPL Monitoring Points:** See Figure 1 below

**Sampling Period:** September 2015

**Publication Date:** 1<sup>st</sup> October 2015

**Table 1 – No Pollutant 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 or Only Value |
|--------|------------------|-------------------------|-------------------------------|------------------------------|--------------|---------------|-----------|------------|--------------|-------------------|
| ND3    | Deposited Matter | g/m <sup>2</sup> /month | Once a month (min. 4 weeks)   | 1                            | 15-Sep-15    | 22-Sep-15     | N/A       | N/A        | N/A          | 0.9               |
| 11     | Conductivity     | µs/cm                   | Upon discharge                | 0                            |              |               |           |            |              |                   |
|        | TOC              | mg/L                    |                               | 0                            |              |               |           |            |              |                   |
| 12     | Conductivity     | µs/cm                   | Upon discharge                | 0                            |              |               |           |            |              |                   |
|        | TOC              | mg/L                    |                               | 0                            |              |               |           |            |              |                   |
| 13     | Conductivity     | µs/cm                   | Upon discharge                | 0                            |              |               |           |            |              |                   |
|        | TOC              | mg/L                    |                               | 0                            |              |               |           |            |              |                   |
| 14     | Conductivity     | µs/cm                   | Quarterly –<br>Upon discharge | 0                            |              |               |           |            |              |                   |
|        | TOC              | mg/L                    |                               | 0                            |              |               |           |            |              |                   |
|        | Oil & Grease     | mg/L                    |                               | 0                            |              |               |           |            |              |                   |
|        | pH               | pH                      |                               | 0                            |              |               |           |            |              |                   |
|        | TSS              | mg/L                    |                               | 0                            |              |               |           |            |              |                   |
| 15     | Conductivity     | µs/cm                   | Quarterly –<br>Upon discharge | 0                            |              |               |           |            |              |                   |
|        | TOC              | mg/L                    |                               | 0                            |              |               |           |            |              |                   |
|        | Oil & Grease     | mg/L                    |                               | 0                            |              |               |           |            |              |                   |
|        | pH               | pH                      |                               | 0                            |              |               |           |            |              |                   |
|        | TSS              | mg/L                    |                               | 0                            |              |               |           |            |              |                   |

| 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 or Only Value |
|--------|--------------|------------------|-------------------------------|------------------------------|--------------|---------------|-----------|------------|--------------|-------------------|
| 16     | Conductivity | µs/cm            | Quarterly –<br>Upon discharge | 0                            |              |               |           |            |              |                   |
|        | TOC          | mg/L             |                               | 0                            |              |               |           |            |              |                   |
|        | Oil & Grease | mg/L             |                               | 0                            |              |               |           |            |              |                   |
|        | pH           | pH               |                               | 0                            |              |               |           |            |              |                   |
|        | TSS          | mg/L             |                               | 0                            |              |               |           |            |              |                   |
| 17     | Conductivity | µs/cm            | Quarterly –<br>Upon discharge | 0                            |              |               |           |            |              |                   |
|        | TOC          | mg/L             |                               | 0                            |              |               |           |            |              |                   |
|        | Oil & Grease | mg/L             |                               | 0                            |              |               |           |            |              |                   |
|        | pH           | pH               |                               | 0                            |              |               |           |            |              |                   |
|        | TSS          | mg/L             |                               | 0                            |              |               |           |            |              |                   |
| 18     | Conductivity | µs/cm            | Upon discharge                | SD7 not yet constructed      |              |               |           |            |              |                   |
|        | TOC          | mg/L             |                               |                              |              |               |           |            |              |                   |
| 19     | Conductivity | µs/cm            | Quarterly –<br>Upon discharge | 0                            |              |               |           |            |              |                   |
|        | TOC          | mg/L             |                               | 0                            |              |               |           |            |              |                   |
|        | Oil & Grease | mg/L             |                               | 0                            |              |               |           |            |              |                   |
|        | pH           | pH               |                               | 0                            |              |               |           |            |              |                   |
|        | TSS          | mg/L             |                               | 0                            |              |               |           |            |              |                   |
| 20     | Conductivity | µs/cm            | Quarterly –<br>Upon discharge | 0                            |              |               |           |            |              |                   |
|        | TOC          | mg/L             |                               | 0                            |              |               |           |            |              |                   |
|        | Oil & Grease | mg/L             |                               | 0                            |              |               |           |            |              |                   |
|        | pH           | pH               |                               | 0                            |              |               |           |            |              |                   |
|        | TSS          | mg/L             |                               | 0                            |              |               |           |            |              |                   |
| 21     | Conductivity | µs/cm            | Quarterly –<br>Upon discharge | 0                            |              |               |           |            |              |                   |
|        | TOC          | mg/L             |                               | 0                            |              |               |           |            |              |                   |
|        | Oil & Grease | mg/L             |                               | 0                            |              |               |           |            |              |                   |
|        | pH           | pH               |                               | 0                            |              |               |           |            |              |                   |
|        | TSS          | mg/L             |                               | 0                            |              |               |           |            |              |                   |
| 22     | Conductivity | µs/cm            | Quarterly –<br>Upon discharge | 0                            |              |               |           |            |              |                   |
|        | TOC          | mg/L             |                               | 0                            |              |               |           |            |              |                   |
|        | Oil & Grease | mg/L             |                               | 0                            |              |               |           |            |              |                   |



| 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 or Only Value |
|--------|-----------|------------------|----------------------|------------------------------|--------------|---------------|-----------|------------|--------------|-------------------|
|        | pH        | pH               |                      | 0                            |              |               |           |            |              |                   |
|        | TSS       | mg/L             |                      | 0                            |              |               |           |            |              |                   |

**Table 2 - Pollutant Limits Apply (Water)**

| EPL ID | Pollutant    | Units of Measure | Monitoring Frequency | No. of Samples for the Month | Date Sampled | Date Obtained | Min Value | Mean Value | Max Value | EPL Limit | Exceedance (Yes/No) | Comments  |
|--------|--------------|------------------|----------------------|------------------------------|--------------|---------------|-----------|------------|-----------|-----------|---------------------|-----------|
| 11     | TSS          | mg/L             | Upon discharge       | 0                            |              |               |           |            |           | 50        |                     | Dam – SD4 |
|        | Oil & Grease | mg/L             |                      | 0                            |              |               |           |            |           | 10        |                     |           |
|        | pH           | pH               |                      | 0                            |              |               |           |            |           | 6.5-8.5   |                     |           |
| 12     | TSS          | mg/L             | Upon discharge       | 0                            |              |               |           |            |           | 50        |                     | Dam – SD5 |
|        | Oil & Grease | mg/L             |                      | 0                            |              |               |           |            |           | 10        |                     |           |
|        | pH           | pH               |                      | 0                            |              |               |           |            |           | 6.5-8.5   |                     |           |
| 13     | TSS          | mg/L             | Upon discharge       | 0                            |              |               |           |            |           | 50        |                     | Dam – SD2 |
|        | Oil & Grease | mg/L             |                      | 0                            |              |               |           |            |           | 10        |                     |           |
|        | pH           | pH               |                      | 0                            |              |               |           |            |           | 6.5-8.5   |                     |           |
| 18     | TSS          | mg/L             | Upon discharge       | SD7 not yet constructed      |              |               |           |            |           |           |                     |           |
|        | Oil & Grease | mg/L             |                      |                              |              |               |           |            |           |           |                     |           |
|        | pH           | pH               |                      |                              |              |               |           |            |           |           |                     |           |

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

| EPL ID | Date   | Measured Levels – dB(A)<br>Leq 15min Day | Measured Levels – dB(A)<br>Leq 15min Evening | Measured Levels – dB(A)<br>Leq 15min Night | Measured Levels – dB(A)<br>LA1 (1 min) Night | Limit(s)  | Measurement Periods | Weather Compliant Conditions | Compliant (Yes/No) | Comments               |
|--------|--|--|--|--|--|---|---------------------|------------------------------|--------------------|------------------------|
| N5     | 1-Sep-15   | 26                                       | 28   | 24   | 28   | <u>Day, Evening &amp; Night:</u><br>35<br><u>Night</u><br><u>LA1 (1 min):</u><br>45 | Day – 1.5 hrs       | Yes                          | Yes                | Results are NM sources |
|        | 2-Sep-15   | 33                                       | 33   | 25   | 30   |   | Evening – 0.5 hrs   | No                           | Yes                | Results are NM sources |
|        | 3-Sep-15   | 23                                       | 25   | 31   | 37   |   | Night – 1 hr        | Yes                          | Yes                | Results are NM sources |
| N6     | 1-Sep-15   | 32                                       | 33   | 30   | 36   | <u>Day, Evening &amp; Night:</u><br>35<br><u>Night</u><br><u>LA1 (1 min):</u><br>45 | Day – 1.5 hrs       | No                           | Yes                | Results are NM sources |
|        | 2-Sep-15   | 31                                       | 33   | 34   | 39   |   | Evening – 0.5 hrs   | No                           | Yes                | Results are NM sources |
|        | 3-Sep-15   | 31                                       | 33   | 30   | 34   |   | Night – 1 hr        | No                           | Yes                | Results are NM sources |
| N7     | 1-Sep-15   | 24                                       | 31   | 32   | 37   | <u>Day, Evening &amp; Night:</u><br>35<br><u>Night</u><br><u>LA1 (1 min):</u><br>45 | Day – 1.5 hrs       | No                           | Yes                | Results are NM sources |
|        | 2-Sep-15   | 21                                       | 22   | <20  | <20  |   | Evening – 0.5 hrs   | No                           | Yes                | Results are NM sources |
|        | 3-Sep-15   | <20                                      | 34   | 35   | 40   |   | Night – 1 hr        | No                           | Yes                | Results are NM sources |
| N8     | Monitoring at N8 to commence when surface activities approach the eastern end of the southern longwall panels. |  |  |  |  |   |                     |                              |                    |                        |

Figure 1 – EPL 12789 Monitoring Locations

