

NARRABRI MINE – MONTHLY MONITORING SUMMARY

Site Information

EPL No: 12789

EPA Website Link: <http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=33125&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: January 2014

Publication Date: 4th February 2014

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 ² /month | Once a month (min. 4 weeks) | 1 | 13-Jan-14 | 28-Jan-14 | Dust gauge funnel broken, no result reported | | | |
| 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 – Upon discharge | 0 | | | | | | |
| | TOC | mg/L | | 0 | | | | | | |
| | Oil & Grease | mg/L | | 0 | | | | | | |
| | pH | pH | | 0 | | | | | | |
| | TSS | mg/L | | 0 | | | | | | |
| 15 | Conductivity | µs/cm | Quarterly – 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 – Upon discharge | 0 | | | | | | |
| | TOC | mg/L | | 0 | | | | | | |
| | Oil & Grease | mg/L | | 0 | | | | | | |
| | pH | pH | | 0 | | | | | | |
| | TSS | mg/L | | 0 | | | | | | |
| 17 | Conductivity | µs/cm | Quarterly – 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 – Upon discharge | 0 | | | | | | |
| | TOC | mg/L | | 0 | | | | | | |
| | Oil & Grease | mg/L | | 0 | | | | | | |
| | pH | pH | | 0 | | | | | | |
| | TSS | mg/L | | 0 | | | | | | |
| 20 | Conductivity | µs/cm | Quarterly – Upon discharge | 0 | | | | | | |
| | TOC | mg/L | | 0 | | | | | | |
| | Oil & Grease | mg/L | | 0 | | | | | | |
| | pH | pH | | 0 | | | | | | |
| | TSS | mg/L | | 0 | | | | | | |
| 21 | Conductivity | µs/cm | Quarterly – Upon discharge | 0 | | | | | | |
| | TOC | mg/L | | 0 | | | | | | |
| | Oil & Grease | mg/L | | 0 | | | | | | |
| | pH | pH | | 0 | | | | | | |
| | TSS | mg/L | | 0 | | | | | | |
| 22 | Conductivity | µs/cm | Quarterly – Upon discharge | 0 | | | | | | |
| | TOC | mg/L | | 0 | | | | | | |
| | Oil & Grease | mg/L | | 0 | | | | | | |
| | 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) <small>L_{eq} 15min Day</small> | Measured Levels – dB(A) <small>L_{eq} 15min Evening</small> | Measured Levels – dB(A) <small>L_{eq} 15min Night</small> | Measured Levels – dB(A) <small>L_{A1} (1 min) Night</small> | Limit(s) | Measurement Periods | Weather Compliant Conditions | Compliant (Yes/No) | Comments |
|--------|--------------|--|--|--|--|--|---------------------|------------------------------|--------------------|----------|
| N1 | Not Required | | | | | <u>Day, Evening & Night:</u> 35 <u>Night</u> <u>L_{A1} (1 min):</u> 45 | Day – 1.5 hrs | | | |
| | | | | | | | Evening – 0.5 hrs | | | |
| | | | | | | | Night – 1 hr | | | |
| N3 | Not Required | | | | | <u>Day, Evening & Night:</u> 35 <u>Night</u> <u>L_{A1} (1 min):</u> 45 | Day – 1.5 hrs | | | |
| | | | | | | | Evening – 0.5 hrs | | | |
| | | | | | | | Night – 1 hr | | | |

| EPL ID | Date | Measured Levels – dB(A) L _{eq} 15min Day | Measured Levels – dB(A) L _{eq} 15min Evening | Measured Levels – dB(A) L _{eq} 15min Night | Measured Levels – dB(A) L _{A1} (1 min) Night | Limit(s) | Measurement Periods | Weather Compliant Conditions | Compliant (Yes/No) | Comments |
|--------|--|--|--|--|--|--|---------------------|------------------------------|--------------------|----------|
| N5 | Not Required | | | | | <u>Day, Evening & Night:</u> 35 <u>Night</u> <u>L_{A1} (1 min):</u> 45 | Day – 1.5 hrs | | | |
| | | | | | | | Evening – 0.5 hrs | | | |
| | | | | | | | Night – 1 hr | | | |
| N6 | Not Required | | | | | <u>Day, Evening & Night:</u> 35 <u>Night</u> <u>L_{A1} (1 min):</u> 45 | Day – 1.5 hrs | | | |
| | | | | | | | Evening – 0.5 hrs | | | |
| | | | | | | | Night – 1 hr | | | |
| N7 | Not Required | | | | | <u>Day, Evening & Night:</u> 35 <u>Night</u> <u>L_{A1} (1 min):</u> 45 | Day – 1.5 hrs | | | |
| | | | | | | | Evening – 0.5 hrs | | | |
| | | | | | | | Night – 1 hr | | | |
| N8 | Monitoring at N8 to commence when surface activities approach the eastern end of the southern longwall panels. | | | | | | | | | |

Figure 1 – EPL 12789 Monitoring Locations



NARRABRI MINE – MONTHLY MONITORING SUMMARY

Site Information

EPL No: 12789

EPA Website Link: <http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=33125&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: February 2014

Publication Date: 10th March 2014

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 ² /month | Once a month (min. 4 weeks) | 1 | 12-Feb-14 | 19-Feb-14 | N/A | N/A | N/A | 1.0 |
| 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 – Upon discharge | 0 | | | | | | |
| | TOC | mg/L | | 0 | | | | | | |
| | Oil & Grease | mg/L | | 0 | | | | | | |
| | pH | pH | | 0 | | | | | | |
| | TSS | mg/L | | 0 | | | | | | |
| 15 | Conductivity | µs/cm | Quarterly – 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 – Upon discharge | 0 | | | | | | |
| | TOC | mg/L | | 0 | | | | | | |
| | Oil & Grease | mg/L | | 0 | | | | | | |
| | pH | pH | | 0 | | | | | | |
| | TSS | mg/L | | 0 | | | | | | |
| 17 | Conductivity | µs/cm | Quarterly – 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 – Upon discharge | 0 | | | | | | |
| | TOC | mg/L | | 0 | | | | | | |
| | Oil & Grease | mg/L | | 0 | | | | | | |
| | pH | pH | | 0 | | | | | | |
| | TSS | mg/L | | 0 | | | | | | |
| 20 | Conductivity | µs/cm | Quarterly – Upon discharge | 0 | | | | | | |
| | TOC | mg/L | | 0 | | | | | | |
| | Oil & Grease | mg/L | | 0 | | | | | | |
| | pH | pH | | 0 | | | | | | |
| | TSS | mg/L | | 0 | | | | | | |
| 21 | Conductivity | µs/cm | Quarterly – Upon discharge | 0 | | | | | | |
| | TOC | mg/L | | 0 | | | | | | |
| | Oil & Grease | mg/L | | 0 | | | | | | |
| | pH | pH | | 0 | | | | | | |
| | TSS | mg/L | | 0 | | | | | | |
| 22 | Conductivity | µs/cm | Quarterly – Upon discharge | 0 | | | | | | |
| | TOC | mg/L | | 0 | | | | | | |
| | Oil & Grease | mg/L | | 0 | | | | | | |
| | 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) <small>L_{eq} 15min Day</small> | Measured Levels – dB(A) <small>L_{eq} 15min Evening</small> | Measured Levels – dB(A) <small>L_{eq} 15min Night</small> | Measured Levels – dB(A) <small>L_{A1} (1 min) Night</small> | Limit(s) | Measurement Periods | Weather Compliant Conditions | Compliant (Yes/No) | Comments |
|--------|--------------|--|--|--|--|--|---------------------|------------------------------|--------------------|----------|
| N1 | Not Required | | | | | <u>Day, Evening & Night:</u> 35 <u>Night</u> <u>L_{A1} (1 min):</u> 45 | Day – 1.5 hrs | | | |
| | | | | | | | Evening – 0.5 hrs | | | |
| | | | | | | | Night – 1 hr | | | |
| N3 | Not Required | | | | | <u>Day, Evening & Night:</u> 35 <u>Night</u> <u>L_{A1} (1 min):</u> 45 | Day – 1.5 hrs | | | |
| | | | | | | | Evening – 0.5 hrs | | | |
| | | | | | | | Night – 1 hr | | | |



| EPL ID | Date | Measured Levels – dB(A) L _{eq} 15min Day | Measured Levels – dB(A) L _{eq} 15min Evening | Measured Levels – dB(A) L _{eq} 15min Night | Measured Levels – dB(A) L _{A1} (1 min) Night | Limit(s) | Measurement Periods | Weather Compliant Conditions | Compliant (Yes/No) | Comments |
|--------|--|--|--|--|--|--|---------------------|------------------------------|--------------------|----------|
| N5 | Not Required | | | | | <u>Day, Evening & Night:</u> 35 <u>Night</u> <u>L_{A1} (1 min):</u> 45 | Day – 1.5 hrs | | | |
| | | | | | | | Evening – 0.5 hrs | | | |
| | | | | | | | Night – 1 hr | | | |
| N6 | Not Required | | | | | <u>Day, Evening & Night:</u> 35 <u>Night</u> <u>L_{A1} (1 min):</u> 45 | Day – 1.5 hrs | | | |
| | | | | | | | Evening – 0.5 hrs | | | |
| | | | | | | | Night – 1 hr | | | |
| N7 | Not Required | | | | | <u>Day, Evening & Night:</u> 35 <u>Night</u> <u>L_{A1} (1 min):</u> 45 | Day – 1.5 hrs | | | |
| | | | | | | | Evening – 0.5 hrs | | | |
| | | | | | | | Night – 1 hr | | | |
| N8 | Monitoring at N8 to commence when surface activities approach the eastern end of the southern longwall panels. | | | | | | | | | |

Figure 1 – EPL 12789 Monitoring Locations



NARRABRI MINE – MONTHLY MONITORING SUMMARY

Site Information

EPL No: 12789

EPA Website Link: <http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=33517&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: March 2014

Publication Date: 10th April 2014

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 ² /month | Once a month (min. 4 weeks) | 1 | 13-Mar-14 | 24-Mar-14 | N/A | N/A | N/A | 0.6 |
| 11 | Conductivity | µs/cm | Upon discharge | 0 | | | | | | |
| | TOC | mg/L | | 0 | | | | | | |
| 12 | Conductivity | µs/cm | Upon discharge | 1 | 28-Mar-14 | 8-Apr-14 | N/A | N/A | N/A | 72 |
| | TOC | mg/L | | 1 | 28-Mar-14 | 8-Apr-14 | N/A | N/A | N/A | 10 |
| 13 | Conductivity | µs/cm | Upon discharge | 1 | 28-Mar-14 | 8-Apr-14 | N/A | N/A | N/A | 103 |
| | TOC | mg/L | | 1 | 28-Mar-14 | 8-Apr-14 | N/A | N/A | N/A | 12 |
| 14 | Conductivity | µs/cm | Quarterly – Upon discharge | 1 | 27-Mar-14 | 4-Apr-14 | N/A | N/A | N/A | 113 |
| | TOC | mg/L | | 1 | 27-Mar-14 | 4-Apr-14 | N/A | N/A | N/A | 16 |
| | Oil & Grease | mg/L | | 1 | 27-Mar-14 | 4-Apr-14 | N/A | N/A | N/A | <5 |
| | pH | pH | | 1 | 27-Mar-14 | 4-Apr-14 | N/A | N/A | N/A | 7.53 |
| | TSS | mg/L | | 1 | 27-Mar-14 | 4-Apr-14 | N/A | N/A | N/A | 14 |
| 15 | Conductivity | µs/cm | Quarterly – Upon discharge | 4 | 21,25,26,27-Mar-14 | 4-Apr-14 | 98 | 184 | 177 | 286 |
| | TOC | mg/L | | 4 | 21,25,26,27-Mar-14 | 4-Apr-14 | 10 | 18 | 16 | 31 |
| | Oil & Grease | mg/L | | 4 | 21,25,26,27- | 4-Apr-14 | <5 | N/A | N/A | <5 |



| 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 |
|--------|--------------|------------------|----------------------------|------------------------------|--------------------|---------------|-----------|------------|--------------|-------------------|
| | | | | | Mar-14 | | | | | |
| | pH | pH | | 4 | 21,25,26,27-Mar-14 | 4-Apr-14 | 7.13 | 7.44 | 7.40 | 7.85 |
| | TSS | mg/L | | 4 | 21,25,26,27-Mar-14 | 4-Apr-14 | <5 | 57 | 61 | 100 |
| 16 | Conductivity | µs/cm | Quarterly – Upon discharge | 2 | 25,27-Mar-14 | 4-Apr-14 | 65 | 68 | 68 | 70 |
| | TOC | mg/L | | 2 | 25,27-Mar-14 | 4-Apr-14 | 10 | 11 | 11 | 12 |
| | Oil & Grease | mg/L | | 2 | 25,27-Mar-14 | 4-Apr-14 | <5 | N/A | N/A | <5 |
| | pH | pH | | 2 | 25,27-Mar-14 | 4-Apr-14 | 6.65 | 6.96 | 6.96 | 7.27 |
| | TSS | mg/L | | 2 | 25,27-Mar-14 | 4-Apr-14 | 8 | 22 | 22 | 35 |
| 17 | Conductivity | µs/cm | Quarterly – Upon discharge | 2 | 25,27-Mar-14 | 4-Apr-14 | 72 | 76 | 76 | 79 |
| | TOC | mg/L | | 2 | 25,27-Mar-14 | 4-Apr-14 | 13 | 14 | 14 | 14 |
| | Oil & Grease | mg/L | | 2 | 25,27-Mar-14 | 4-Apr-14 | <5 | N/A | N/A | <5 |
| | pH | pH | | 2 | 25,27-Mar-14 | 4-Apr-14 | 6.46 | 6.83 | 6.83 | 7.19 |
| | TSS | mg/L | | 2 | 25,27-Mar-14 | 4-Apr-14 | 22 | 55 | 55 | 88 |
| 18 | Conductivity | µs/cm | Upon discharge | SD7 not yet constructed | | | | | | |
| | TOC | mg/L | | | | | | | | |
| 19 | Conductivity | µs/cm | Quarterly – Upon discharge | 2 | 25,27-Mar-14 | 4-Apr-14 | 90 | 143 | 143 | 195 |
| | TOC | mg/L | | 2 | 25,27-Mar-14 | 4-Apr-14 | 6 | 7 | 7 | 8 |
| | Oil & Grease | mg/L | | 2 | 25,27-Mar-14 | 4-Apr-14 | <5 | N/A | N/A | <5 |
| | pH | pH | | 2 | 25,27-Mar-14 | 4-Apr-14 | 7.25 | 7.33 | 7.33 | 7.41 |

| 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 |
|--------|--------------|------------------|----------------------------|------------------------------|--------------------|---------------|-----------|------------|--------------|-------------------|
| | | | | | 14 | | | | | |
| | TSS | mg/L | | 2 | 25,27-Mar-14 | 4-Apr-14 | 92 | 298 | 298 | 503 |
| 20 | Conductivity | µs/cm | Quarterly – Upon discharge | 1 | 27-Mar-14 | 4-Apr-14 | N/A | N/A | N/A | 130 |
| | TOC | mg/L | | 1 | 27-Mar-14 | 4-Apr-14 | N/A | N/A | N/A | 8 |
| | Oil & Grease | mg/L | | 1 | 27-Mar-14 | 4-Apr-14 | N/A | N/A | N/A | <5 |
| | pH | pH | | 1 | 27-Mar-14 | 4-Apr-14 | N/A | N/A | N/A | 7.38 |
| | TSS | mg/L | | 1 | 27-Mar-14 | 4-Apr-14 | N/A | N/A | N/A | 58 |
| 21 | Conductivity | µs/cm | Quarterly – Upon discharge | 4 | 21,25,26,27-Mar-14 | 4-Apr-14 | 16 | 57 | 65 | 82 |
| | TOC | mg/L | | 4 | 21,25,26,27-Mar-14 | 4-Apr-14 | 5 | 10 | 11 | 14 |
| | Oil & Grease | mg/L | | 4 | 21,25,26,27-Mar-14 | 4-Apr-14 | <5 | N/A | N/A | <5 |
| | pH | pH | | 4 | 21,25,26,27-Mar-14 | 4-Apr-14 | 6.58 | 6.93 | 6.95 | 7.23 |
| | TSS | mg/L | | 4 | 21,25,26,27-Mar-14 | 4-Apr-14 | 39 | 117 | 63 | 302 |
| 22 | Conductivity | µs/cm | Quarterly – Upon discharge | 4 | 21,25,26,27-Mar-14 | 4-Apr-14 | 78 | 97 | 93 | 122 |
| | TOC | mg/L | | 4 | 21,25,26,27-Mar-14 | 4-Apr-14 | 6 | 11 | 11 | 15 |
| | Oil & Grease | mg/L | | 4 | 21,25,26,27-Mar-14 | 4-Apr-14 | <5 | N/A | N/A | <5 |
| | pH | pH | | 4 | 21,25,26,27-Mar-14 | 4-Apr-14 | 7.02 | 7.22 | 7.23 | 7.41 |
| | TSS | mg/L | | 4 | 21,25,26,27-Mar-14 | 4-Apr-14 | <5 | 67 | 67 | 129 |

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 | 1 | 28-Mar-14 | 8-Apr-14 | 18 | 18 | 18 | 50 | No | Dam – SD5 |
| | Oil & Grease | mg/L | | 1 | 28-Mar-14 | 8-Apr-14 | <5 | <5 | <5 | 10 | No | |
| | pH | pH | | 1 | 28-Mar-14 | 8-Apr-14 | 7.06 | 7.06 | 7.06 | 6.5-8.5 | No | |
| 13 | TSS | mg/L | Upon discharge | 1 | 28-Mar-14 | 8-Apr-14 | 26 | 26 | 26 | 50 | No | Dam – SD2 |
| | Oil & Grease | mg/L | | 1 | 28-Mar-14 | 8-Apr-14 | <5 | <5 | <5 | 10 | No | |
| | pH | pH | | 1 | 28-Mar-14 | 8-Apr-14 | 7.21 | 7.21 | 7.21 | 6.5-8.5 | No | |
| 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) <small>L_{eq} 15min Day</small> | Measured Levels – dB(A) <small>L_{eq} 15min Evening</small> | Measured Levels – dB(A) <small>L_{eq} 15min Night</small> | Measured Levels – dB(A) <small>L_{A1} (1 min) Night</small> | Limit(s) | Measurement Periods | Weather Compliant Conditions | Compliant (Yes/No) | Comments |
|--------|-----------|--|--|--|--|--|---------------------|------------------------------|--------------------|-------------------------|
| N1 | 17-Mar-14 | Faintly Audible | 35 | 38 | 47 | <u>Day, Evening & Night:</u> 35 <u>Night</u> <u>L_{A1} (1 min):</u> 45 | Day – 1.5 hrs | No | Yes | Results are NM sources. |
| | 18-Mar-14 | 25 | 29 | 30 | 35 | | Evening – 0.5 hrs | No | Yes | Results are NM sources. |
| | 19-Mar-14 | Faintly Audible | 26 | Faintly Audible | 25 | | Night – 1 hr | Yes | Yes | Results are NM sources. |
| N3 | 17-Mar-14 | Inaudible | 20 | Inaudible | N/A | <u>Day, Evening & Night:</u> 35 <u>Night</u> <u>L_{A1} (1 min):</u> 45 | Day – 1.5 hrs | No | Yes | Results are NM sources. |
| | 18-Mar-14 | Inaudible | Inaudible | Inaudible | N/A | | Evening – 0.5 hrs | No | Yes | Results are NM sources. |
| | 19-Mar-14 | Inaudible | Inaudible | Inaudible | N/A | | Night – 1 hr | No | Yes | Results are NM sources. |



| EPL ID | Date | Measured Levels – dB(A) L _{eq} 15min Day | Measured Levels – dB(A) L _{eq} 15min Evening | Measured Levels – dB(A) L _{eq} 15min Night | Measured Levels – dB(A) L _{A1} (1 min) Night | Limit(s) | Measurement Periods | Weather Compliant Conditions | Compliant (Yes/No) | Comments |
|--------|--|--|--|--|--|--|---------------------|------------------------------|--------------------|--|
| N5 | 17-Mar-14 | 27 | Faintly Audible | Inaudible | N/A | <u>Day, Evening & Night:</u> 35 <u>Night</u> <u>L_{A1} (1 min):</u> 45 | Day – 1.5 hrs | No | Yes | Results are NM sources. |
| | 18-Mar-14 | 23 | Inaudible | Inaudible | N/A | | Evening – 0.5 hrs | No | Yes | Results are NM sources. |
| | 19-Mar-14 | 24 | 20 | Inaudible | N/A | | Night – 1 hr | No | Yes | Results are NM sources. |
| N6 | 17-Mar-14 | 27 | 34 | 38 | N/A | <u>Day, Evening & Night:</u> 35 <u>Night</u> <u>L_{A1} (1 min):</u> 45 | Day – 1.5 hrs | No | Yes | Results are NM sources. Monitoring undertaken at mine boundary so levels calculated for residence. |
| | 18-Mar-14 | 34 | 31 | 32 | N/A | | Evening – 0.5 hrs | No | Yes | |
| | 19-Mar-14 | 30 | 36 | 36 | N/A | | Night – 1 hr | No | Yes | |
| N7 | 17-Mar-14 | Inaudible | Inaudible | 32 | 35 | <u>Day, Evening & Night:</u> 35 <u>Night</u> <u>L_{A1} (1 min):</u> 45 | Day – 1.5 hrs | No | Yes | Results are NM sources. |
| | 18-Mar-14 | Inaudible | 33 | 30 | 36 | | Evening – 0.5 hrs | No | Yes | Results are NM sources. |
| | 19-Mar-14 | 27 | Inaudible | Inaudible | N/A | | 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



NARRABRI MINE – MONTHLY MONITORING SUMMARY

Site Information

EPL No: 12789

EPA Website Link: <http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=33125&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: April 2014

Publication Date: 22nd May 2014

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 ² /month | Once a month (min. 4 weeks) | 1 | 14-Apr-14 | 23-Apr-14 | N/A | N/A | N/A | 0.3 |
| 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 – Upon discharge | 0 | | | | | | |
| | TOC | mg/L | | 0 | | | | | | |
| | Oil & Grease | mg/L | | 0 | | | | | | |
| | pH | pH | | 0 | | | | | | |
| | TSS | mg/L | | 0 | | | | | | |
| 15 | Conductivity | µs/cm | Quarterly – 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 – Upon discharge | 0 | | | | | | |
| | TOC | mg/L | | 0 | | | | | | |
| | Oil & Grease | mg/L | | 0 | | | | | | |
| | pH | pH | | 0 | | | | | | |
| | TSS | mg/L | | 0 | | | | | | |
| 17 | Conductivity | µs/cm | Quarterly – 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 – Upon discharge | 0 | | | | | | |
| | TOC | mg/L | | 0 | | | | | | |
| | Oil & Grease | mg/L | | 0 | | | | | | |
| | pH | pH | | 0 | | | | | | |
| | TSS | mg/L | | 0 | | | | | | |
| 20 | Conductivity | µs/cm | Quarterly – Upon discharge | 0 | | | | | | |
| | TOC | mg/L | | 0 | | | | | | |
| | Oil & Grease | mg/L | | 0 | | | | | | |
| | pH | pH | | 0 | | | | | | |
| | TSS | mg/L | | 0 | | | | | | |
| 21 | Conductivity | µs/cm | Quarterly – Upon discharge | 0 | | | | | | |
| | TOC | mg/L | | 0 | | | | | | |
| | Oil & Grease | mg/L | | 0 | | | | | | |
| | pH | pH | | 0 | | | | | | |
| | TSS | mg/L | | 0 | | | | | | |
| 22 | Conductivity | µs/cm | Quarterly – Upon discharge | 0 | | | | | | |
| | TOC | mg/L | | 0 | | | | | | |
| | Oil & Grease | mg/L | | 0 | | | | | | |
| | 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) <small>L_{eq} 15min Day</small> | Measured Levels – dB(A) <small>L_{eq} 15min Evening</small> | Measured Levels – dB(A) <small>L_{eq} 15min Night</small> | Measured Levels – dB(A) <small>L_{A1} (1 min) Night</small> | Limit(s) | Measurement Periods | Weather Compliant Conditions | Compliant (Yes/No) | Comments |
|--------|--------------|--|--|--|--|--|---------------------|------------------------------|--------------------|----------|
| N1 | Not Required | | | | | <u>Day, Evening & Night:</u> 35 <u>Night</u> <u>L_{A1} (1 min):</u> 45 | Day – 1.5 hrs | | | |
| | | | | | | | Evening – 0.5 hrs | | | |
| | | | | | | | Night – 1 hr | | | |
| N3 | Not Required | | | | | <u>Day, Evening & Night:</u> 35 <u>Night</u> <u>L_{A1} (1 min):</u> 45 | Day – 1.5 hrs | | | |
| | | | | | | | Evening – 0.5 hrs | | | |
| | | | | | | | Night – 1 hr | | | |

| EPL ID | Date | Measured Levels – dB(A) L _{eq} 15min Day | Measured Levels – dB(A) L _{eq} 15min Evening | Measured Levels – dB(A) L _{eq} 15min Night | Measured Levels – dB(A) L _{A1} (1 min) Night | Limit(s) | Measurement Periods | Weather Compliant Conditions | Compliant (Yes/No) | Comments |
|--------|--|--|--|--|--|--|---------------------|------------------------------|--------------------|----------|
| N5 | Not Required | | | | | <u>Day, Evening & Night:</u> 35 <u>Night</u> <u>L_{A1} (1 min):</u> 45 | Day – 1.5 hrs | | | |
| | | | | | | | Evening – 0.5 hrs | | | |
| | | | | | | | Night – 1 hr | | | |
| N6 | Not Required | | | | | <u>Day, Evening & Night:</u> 35 <u>Night</u> <u>L_{A1} (1 min):</u> 45 | Day – 1.5 hrs | | | |
| | | | | | | | Evening – 0.5 hrs | | | |
| | | | | | | | Night – 1 hr | | | |
| N7 | Not Required | | | | | <u>Day, Evening & Night:</u> 35 <u>Night</u> <u>L_{A1} (1 min):</u> 45 | Day – 1.5 hrs | | | |
| | | | | | | | Evening – 0.5 hrs | | | |
| | | | | | | | Night – 1 hr | | | |
| N8 | Monitoring at N8 to commence when surface activities approach the eastern end of the southern longwall panels. | | | | | | | | | |

Figure 1 – EPL 12789 Monitoring Locations



NARRABRI MINE – MONTHLY MONITORING SUMMARY

Site Information

EPL No: 12789

EPA Website Link: <http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=33125&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: May 2014

Publication Date: 3rd June 2014

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 ² /month | Once a month (min. 4 weeks) | 1 | 14-May-14 | 22-May-14 | N/A | N/A | N/A | 1.2 |
| 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 – Upon discharge | 0 | | | | | | |
| | TOC | mg/L | | 0 | | | | | | |
| | Oil & Grease | mg/L | | 0 | | | | | | |
| | pH | pH | | 0 | | | | | | |
| | TSS | mg/L | | 0 | | | | | | |
| 15 | Conductivity | µs/cm | Quarterly – 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 – Upon discharge | 0 | | | | | | |
| | TOC | mg/L | | 0 | | | | | | |
| | Oil & Grease | mg/L | | 0 | | | | | | |
| | pH | pH | | 0 | | | | | | |
| | TSS | mg/L | | 0 | | | | | | |
| 17 | Conductivity | µs/cm | Quarterly – 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 – Upon discharge | 0 | | | | | | |
| | TOC | mg/L | | 0 | | | | | | |
| | Oil & Grease | mg/L | | 0 | | | | | | |
| | pH | pH | | 0 | | | | | | |
| | TSS | mg/L | | 0 | | | | | | |
| 20 | Conductivity | µs/cm | Quarterly – Upon discharge | 0 | | | | | | |
| | TOC | mg/L | | 0 | | | | | | |
| | Oil & Grease | mg/L | | 0 | | | | | | |
| | pH | pH | | 0 | | | | | | |
| | TSS | mg/L | | 0 | | | | | | |
| 21 | Conductivity | µs/cm | Quarterly – Upon discharge | 0 | | | | | | |
| | TOC | mg/L | | 0 | | | | | | |
| | Oil & Grease | mg/L | | 0 | | | | | | |
| | pH | pH | | 0 | | | | | | |
| | TSS | mg/L | | 0 | | | | | | |
| 22 | Conductivity | µs/cm | Quarterly – Upon discharge | 0 | | | | | | |
| | TOC | mg/L | | 0 | | | | | | |
| | Oil & Grease | mg/L | | 0 | | | | | | |
| | 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) <small>L_{eq} 15min Day</small> | Measured Levels – dB(A) <small>L_{eq} 15min Evening</small> | Measured Levels – dB(A) <small>L_{eq} 15min Night</small> | Measured Levels – dB(A) <small>L_{A1} (1 min) Night</small> | Limit(s) | Measurement Periods | Weather Compliant Conditions | Compliant (Yes/No) | Comments |
|--------|--------------|--|--|--|--|--|---------------------|------------------------------|--------------------|----------|
| N1 | Not Required | | | | | <u>Day, Evening & Night:</u> 35 <u>Night</u> <u>L_{A1} (1 min):</u> 45 | Day – 1.5 hrs | | | |
| | | | | | | | Evening – 0.5 hrs | | | |
| | | | | | | | Night – 1 hr | | | |
| N3 | Not Required | | | | | <u>Day, Evening & Night:</u> 35 <u>Night</u> <u>L_{A1} (1 min):</u> 45 | Day – 1.5 hrs | | | |
| | | | | | | | Evening – 0.5 hrs | | | |
| | | | | | | | Night – 1 hr | | | |

| EPL ID | Date | Measured Levels – dB(A) L _{eq} 15min Day | Measured Levels – dB(A) L _{eq} 15min Evening | Measured Levels – dB(A) L _{eq} 15min Night | Measured Levels – dB(A) L _{A1} (1 min) Night | Limit(s) | Measurement Periods | Weather Compliant Conditions | Compliant (Yes/No) | Comments |
|--------|--|--|--|--|--|--|---------------------|------------------------------|--------------------|----------|
| N5 | Not Required | | | | | <u>Day, Evening & Night:</u> 35 <u>Night</u> <u>L_{A1} (1 min):</u> 45 | Day – 1.5 hrs | | | |
| | | | | | | | Evening – 0.5 hrs | | | |
| | | | | | | | Night – 1 hr | | | |
| N6 | Not Required | | | | | <u>Day, Evening & Night:</u> 35 <u>Night</u> <u>L_{A1} (1 min):</u> 45 | Day – 1.5 hrs | | | |
| | | | | | | | Evening – 0.5 hrs | | | |
| | | | | | | | Night – 1 hr | | | |
| N7 | Not Required | | | | | <u>Day, Evening & Night:</u> 35 <u>Night</u> <u>L_{A1} (1 min):</u> 45 | Day – 1.5 hrs | | | |
| | | | | | | | Evening – 0.5 hrs | | | |
| | | | | | | | Night – 1 hr | | | |
| N8 | Monitoring at N8 to commence when surface activities approach the eastern end of the southern longwall panels. | | | | | | | | | |

Figure 1 – EPL 12789 Monitoring Locations



NARRABRI MINE – MONTHLY MONITORING SUMMARY

Site Information

EPL No: 12789

EPA Website Link: <http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=34050&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: June 2014

Publication Date: 6th July 2014

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 ² /month | Once a month (min. 4 weeks) | 1 | 13-Jun-14 | 25-Jun-14 | N/A | N/A | N/A | 0.2 |
| 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 – Upon discharge | 0 | | | | | | |
| | TOC | mg/L | | 0 | | | | | | |
| | Oil & Grease | mg/L | | 0 | | | | | | |
| | pH | pH | | 0 | | | | | | |
| | TSS | mg/L | | 0 | | | | | | |
| 15 | Conductivity | µs/cm | Quarterly – 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 – Upon discharge | 0 | | | | | | |
| | TOC | mg/L | | 0 | | | | | | |
| | Oil & Grease | mg/L | | 0 | | | | | | |
| | pH | pH | | 0 | | | | | | |
| | TSS | mg/L | | 0 | | | | | | |
| 17 | Conductivity | µs/cm | Quarterly – 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 – Upon discharge | 0 | | | | | | |
| | TOC | mg/L | | 0 | | | | | | |
| | Oil & Grease | mg/L | | 0 | | | | | | |
| | pH | pH | | 0 | | | | | | |
| | TSS | mg/L | | 0 | | | | | | |
| 20 | Conductivity | µs/cm | Quarterly – Upon discharge | 0 | | | | | | |
| | TOC | mg/L | | 0 | | | | | | |
| | Oil & Grease | mg/L | | 0 | | | | | | |
| | pH | pH | | 0 | | | | | | |
| | TSS | mg/L | | 0 | | | | | | |
| 21 | Conductivity | µs/cm | Quarterly – Upon discharge | 0 | | | | | | |
| | TOC | mg/L | | 0 | | | | | | |
| | Oil & Grease | mg/L | | 0 | | | | | | |
| | pH | pH | | 0 | | | | | | |
| | TSS | mg/L | | 0 | | | | | | |
| 22 | Conductivity | µs/cm | Quarterly – Upon discharge | 0 | | | | | | |
| | TOC | mg/L | | 0 | | | | | | |
| | Oil & Grease | mg/L | | 0 | | | | | | |
| | 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) L _{eq} 15min Day | Measured Levels – dB(A) L _{eq} 15min Evening | Measured Levels – dB(A) L _{eq} 15min Night | Measured Levels – dB(A) L _{A1} (1 min) Night | Limit(s) | Measurement Periods | Weather Compliant Conditions | Compliant (Yes/No) | Comments |
|--------|----------|--|--|--|--|--|---------------------|------------------------------|--------------------|-------------------------|
| N1 | 2-Jun-14 | - | 35 | 31 | 39 | <u>Day, Evening & Night:</u> 35 <u>Night</u> <u>L_{A1} (1 min):</u> 45 | Day – 1.5 hrs | Yes | Yes | Results are NM sources. |
| | 3-Jun-14 | 26 | 35 | 31 | 37 | | Evening – 0.5 hrs | Yes | Yes | Results are NM sources. |
| | 4-Jun-14 | 34 | Inaudible | 27 | 35 | | Night – 1 hr | No | Yes | Results are NM sources. |
| | 5-Jun-14 | 30 | - | - | - | | | Yes | Yes | Results are NM sources. |
| N3 | 2-Jun-14 | - | 34 | 32 | 40 | <u>Day, Evening & Night:</u> 35 <u>Night</u> | Day – 1.5 hrs | Yes | Yes | Results are NM sources. |
| | 3-Jun-14 | 28 | 29 | Inaudible | N/A | | Evening – 0.5 hrs | Yes | Yes | Results are NM sources. |

| EPL ID | Date | Measured Levels – dB(A) L _{eq} 15min Day | Measured Levels – dB(A) L _{eq} 15min Evening | Measured Levels – dB(A) L _{eq} 15min Night | Measured Levels – dB(A) L _{A1} (1 min) Night | Limit(s) | Measurement Periods | Weather Compliant Conditions | Compliant (Yes/No) | Comments |
|--------|--|--|--|--|--|--|---------------------|------------------------------|-------------------------|--|
| | 4-Jun-14 | Inaudible | 20 | 30 | 39 | L _{A1} (1 min): 45 | Night – 1 hr | Yes | Yes | Results are NM sources. |
| | 5-Jun-14 | 30 | - | - | - | | | Yes | Yes | Results are NM sources. |
| N5 | 2-Jun-14 | - | 23 | 32 | 36 | Day, Evening & Night: 35 Night L _{A1} (1 min): 45 | Day – 1.5 hrs | Yes | Yes | Results are NM sources. |
| | 3-Jun-14 | 25 | Inaudible | Inaudible | N/A | | Evening – 0.5 hrs | Yes | Yes | Results are NM sources. |
| | 4-Jun-14 | Barely audible | Inaudible | 24 | 28 | | Night – 1 hr | Yes | Yes | Results are NM sources. |
| | 5-Jun-14 | 30 | - | - | - | | Yes | Yes | Results are NM sources. | |
| N6 | 2-Jun-14 | - | - | - | N/A | Day, Evening & Night: 35 Night L _{A1} (1 min): 45 | Day – 1.5 hrs | Yes | Yes | Results are NM sources. Monitoring undertaken at mine boundary so levels calculated for residence. |
| | 3-Jun-14 | 29 | 20 | 21 | N/A | | Evening – 0.5 hrs | Yes | Yes | |
| | 4-Jun-14 | 16 | 16 | 19 | N/A | | Night – 1 hr | No | Yes | |
| | 5-Jun-14 | 12 | - | - | - | | Yes | Yes | | |
| N7 | 2-Jun-14 | - | 32 | 24 | 30 | Day, Evening & Night: 35 Night L _{A1} (1 min): 45 | Day – 1.5 hrs | Yes | Yes | Results are NM sources. |
| | 3-Jun-14 | Inaudible | 33 | 33 | 39 | | Evening – 0.5 hrs | Yes | Yes | Results are NM sources. |
| | 4-Jun-14 | 28 | Inaudible | 28 | 36 | | Night – 1 hr | No | Yes | Results are NM sources. |
| | 5-Jun-14 | 29 | - | - | - | | Yes | 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



NARRABRI MINE – MONTHLY MONITORING SUMMARY

Site Information

EPL No: 12789

EPA Website Link: <http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=34050&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: July 2014

Publication Date: 4th August 2014

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 ² /month | Once a month (min. 4 weeks) | 1 | 13-Jul-14 | 17-Jul-14 | N/A | N/A | N/A | <0.1 |
| 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 – Upon discharge | 0 | | | | | | |
| | TOC | mg/L | | 0 | | | | | | |
| | Oil & Grease | mg/L | | 0 | | | | | | |
| | pH | pH | | 0 | | | | | | |
| | TSS | mg/L | | 0 | | | | | | |
| 15 | Conductivity | µs/cm | Quarterly – 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 – Upon discharge | 0 | | | | | | |
| | TOC | mg/L | | 0 | | | | | | |
| | Oil & Grease | mg/L | | 0 | | | | | | |
| | pH | pH | | 0 | | | | | | |
| | TSS | mg/L | | 0 | | | | | | |
| 17 | Conductivity | µs/cm | Quarterly – 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 – Upon discharge | 0 | | | | | | |
| | TOC | mg/L | | 0 | | | | | | |
| | Oil & Grease | mg/L | | 0 | | | | | | |
| | pH | pH | | 0 | | | | | | |
| | TSS | mg/L | | 0 | | | | | | |
| 20 | Conductivity | µs/cm | Quarterly – Upon discharge | 0 | | | | | | |
| | TOC | mg/L | | 0 | | | | | | |
| | Oil & Grease | mg/L | | 0 | | | | | | |
| | pH | pH | | 0 | | | | | | |
| | TSS | mg/L | | 0 | | | | | | |
| 21 | Conductivity | µs/cm | Quarterly – Upon discharge | 0 | | | | | | |
| | TOC | mg/L | | 0 | | | | | | |
| | Oil & Grease | mg/L | | 0 | | | | | | |
| | pH | pH | | 0 | | | | | | |
| | TSS | mg/L | | 0 | | | | | | |
| 22 | Conductivity | µs/cm | Quarterly – Upon discharge | 0 | | | | | | |
| | TOC | mg/L | | 0 | | | | | | |
| | Oil & Grease | mg/L | | 0 | | | | | | |
| | 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) <small>L_{eq} 15min Day</small> | Measured Levels – dB(A) <small>L_{eq} 15min Evening</small> | Measured Levels – dB(A) <small>L_{eq} 15min Night</small> | Measured Levels – dB(A) <small>L_{A1} (1 min) Night</small> | Limit(s) | Measurement Periods | Weather Compliant Conditions | Compliant (Yes/No) | Comments |
|--------|--------------|--|--|--|--|--|---------------------|------------------------------|--------------------|----------|
| N1 | Not Required | | | | | <u>Day, Evening & Night:</u> 35 | Day – 1.5 hrs | | | |
| | | | | | | <u>Night</u> <u>L_{A1} (1 min):</u> 45 | Evening – 0.5 hrs | | | |
| | | | | | | | Night – 1 hr | | | |
| N3 | Not Required | | | | | <u>Day, Evening & Night:</u> 35 | Day – 1.5 hrs | | | |
| | | | | | | <u>Night</u> <u>L_{A1} (1 min):</u> 45 | Evening – 0.5 hrs | | | |
| | | | | | | | Night – 1 hr | | | |



| EPL ID | Date | Measured Levels – dB(A) L _{eq} 15min Day | Measured Levels – dB(A) L _{eq} 15min Evening | Measured Levels – dB(A) L _{eq} 15min Night | Measured Levels – dB(A) L _{A1} (1 min) Night | Limit(s) | Measurement Periods | Weather Compliant Conditions | Compliant (Yes/No) | Comments |
|--------|--|--|--|--|--|--|---------------------|------------------------------|--------------------|----------|
| N5 | Not Required | | | | | <u>Day, Evening & Night:</u> 35 <u>Night</u> <u>L_{A1} (1 min):</u> 45 | Day – 1.5 hrs | | | |
| | | | | | | | Evening – 0.5 hrs | | | |
| | | | | | | | Night – 1 hr | | | |
| N6 | Not Required | | | | | <u>Day, Evening & Night:</u> 35 <u>Night</u> <u>L_{A1} (1 min):</u> 45 | Day – 1.5 hrs | | | |
| | | | | | | | Evening – 0.5 hrs | | | |
| | | | | | | | Night – 1 hr | | | |
| N7 | Not Required | | | | | <u>Day, Evening & Night:</u> 35 <u>Night</u> <u>L_{A1} (1 min):</u> 45 | Day – 1.5 hrs | | | |
| | | | | | | | Evening – 0.5 hrs | | | |
| | | | | | | | Night – 1 hr | | | |
| N8 | Monitoring at N8 to commence when surface activities approach the eastern end of the southern longwall panels. | | | | | | | | | |

Figure 1 – EPL 12789 Monitoring Locations



NARRABRI MINE – MONTHLY MONITORING SUMMARY

Site Information

EPL No: 12789

EPA Website Link: <http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=34050&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: August 2014

Publication Date: 9th September 2014

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 ² /month | Once a month (min. 4 weeks) | 1 | 13-Aug-14 | 21-Aug-14 | N/A | N/A | N/A | 1.2 |
| 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 – Upon discharge | 0 | | | | | | |
| | TOC | mg/L | | 0 | | | | | | |
| | Oil & Grease | mg/L | | 0 | | | | | | |
| | pH | pH | | 0 | | | | | | |
| | TSS | mg/L | | 0 | | | | | | |
| 15 | Conductivity | µs/cm | Quarterly – Upon discharge | 1 | 27-Aug-14 | 4-Sep-14 | N/A | N/A | N/A | 116 |
| | TOC | mg/L | | 1 | 27-Aug-14 | 4-Sep-14 | N/A | N/A | N/A | 15 |
| | Oil & Grease | mg/L | | 1 | 27-Aug-14 | 4-Sep-14 | N/A | N/A | N/A | <5 |
| | pH | pH | | 1 | 27-Aug-14 | 4-Sep-14 | N/A | N/A | N/A | 7.48 |
| | TSS | mg/L | | 1 | 27-Aug-14 | 4-Sep-14 | N/A | N/A | N/A | 56 |

| 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 – Upon discharge | 1 | 27-Aug-14 | 4-Sep-14 | N/A | N/A | N/A | 52 |
| | TOC | mg/L | | 1 | 27-Aug-14 | 4-Sep-14 | N/A | N/A | N/A | 16 |
| | Oil & Grease | mg/L | | 1 | 27-Aug-14 | 4-Sep-14 | N/A | N/A | N/A | <5 |
| | pH | pH | | 1 | 27-Aug-14 | 4-Sep-14 | N/A | N/A | N/A | 6.91 |
| | TSS | mg/L | | 1 | 27-Aug-14 | 4-Sep-14 | N/A | N/A | N/A | 42 |
| 17 | Conductivity | µs/cm | Quarterly – Upon discharge | 1 | 27-Aug-14 | 4-Sep-14 | N/A | N/A | N/A | 50 |
| | TOC | mg/L | | 1 | 27-Aug-14 | 4-Sep-14 | N/A | N/A | N/A | 21 |
| | Oil & Grease | mg/L | | 1 | 27-Aug-14 | 4-Sep-14 | N/A | N/A | N/A | <5 |
| | pH | pH | | 1 | 27-Aug-14 | 4-Sep-14 | N/A | N/A | N/A | 6.8 |
| | TSS | mg/L | | 1 | 27-Aug-14 | 4-Sep-14 | N/A | N/A | N/A | 28 |
| 18 | Conductivity | µs/cm | Upon discharge | SD7 not yet constructed | | | | | | |
| | TOC | mg/L | | | | | | | | |
| 19 | Conductivity | µs/cm | Quarterly – Upon discharge | 1 | 27-Aug-14 | 4-Sep-14 | N/A | N/A | N/A | 353 |
| | TOC | mg/L | | 1 | 27-Aug-14 | 4-Sep-14 | N/A | N/A | N/A | 11 |
| | Oil & Grease | mg/L | | 1 | 27-Aug-14 | 4-Sep-14 | N/A | N/A | N/A | <5 |
| | pH | pH | | 1 | 27-Aug-14 | 4-Sep-14 | N/A | N/A | N/A | 7.14 |
| | TSS | mg/L | | 1 | 27-Aug-14 | 4-Sep-14 | N/A | N/A | N/A | 98 |
| 20 | Conductivity | µs/cm | Quarterly – Upon discharge | 1 | 27-Aug-14 | 4-Sep-14 | N/A | N/A | N/A | 203 |
| | TOC | mg/L | | 1 | 27-Aug-14 | 4-Sep-14 | N/A | N/A | N/A | 11 |
| | Oil & Grease | mg/L | | 1 | 27-Aug-14 | 4-Sep-14 | N/A | N/A | N/A | <5 |
| | pH | pH | | 1 | 27-Aug-14 | 4-Sep-14 | N/A | N/A | N/A | 7.11 |
| | TSS | mg/L | | 1 | 27-Aug-14 | 4-Sep-14 | N/A | N/A | N/A | 113 |
| 21 | Conductivity | µs/cm | Quarterly – Upon discharge | 1 | 27-Aug-14 | 4-Sep-14 | N/A | N/A | N/A | 98 |
| | TOC | mg/L | | 1 | 27-Aug-14 | 4-Sep-14 | N/A | N/A | N/A | 12 |
| | Oil & Grease | mg/L | | 1 | 27-Aug-14 | 4-Sep-14 | N/A | N/A | N/A | <5 |
| | pH | pH | | 1 | 27-Aug-14 | 4-Sep-14 | N/A | N/A | N/A | 7.35 |
| | TSS | mg/L | | 1 | 27-Aug-14 | 4-Sep-14 | N/A | N/A | N/A | 238 |
| 22 | Conductivity | µs/cm | Quarterly – Upon discharge | 1 | 27-Aug-14 | 4-Sep-14 | N/A | N/A | N/A | 77 |
| | TOC | mg/L | | 1 | 27-Aug-14 | 4-Sep-14 | N/A | N/A | N/A | 12 |
| | Oil & Grease | mg/L | | 1 | 27-Aug-14 | 4-Sep-14 | N/A | N/A | N/A | <5 |
| | pH | pH | | 1 | 27-Aug-14 | 4-Sep-14 | N/A | N/A | N/A | 7.41 |
| | TSS | mg/L | | 1 | 27-Aug-14 | 4-Sep-14 | N/A | N/A | N/A | 16 |

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) <small>L_{eq} 15min Day</small> | Measured Levels – dB(A) <small>L_{eq} 15min Evening</small> | Measured Levels – dB(A) <small>L_{eq} 15min Night</small> | Measured Levels – dB(A) <small>L_{A1} (1 min) Night</small> | Limit(s) | Measurement Periods | Weather Compliant Conditions | Compliant (Yes/No) | Comments |
|--------|--------------|--|--|--|--|--|---------------------|------------------------------|--------------------|----------|
| N1 | Not Required | | | | | <u>Day, Evening & Night:</u> 35 | Day – 1.5 hrs | | | |
| | | | | | | <u>Night</u> <u>L_{A1} (1 min):</u> 45 | Evening – 0.5 hrs | | | |
| | | | | | | | Night – 1 hr | | | |
| N3 | Not Required | | | | | <u>Day, Evening & Night:</u> 35 | Day – 1.5 hrs | | | |
| | | | | | | <u>Night</u> <u>L_{A1} (1 min):</u> 45 | Evening – 0.5 hrs | | | |
| | | | | | | | Night – 1 hr | | | |

| EPL ID | Date | Measured Levels – dB(A) L _{eq} 15min Day | Measured Levels – dB(A) L _{eq} 15min Evening | Measured Levels – dB(A) L _{eq} 15min Night | Measured Levels – dB(A) L _{A1} (1 min) Night | Limit(s) | Measurement Periods | Weather Compliant Conditions | Compliant (Yes/No) | Comments |
|--------|--|--|--|--|--|--|---------------------|------------------------------|--------------------|----------|
| N5 | Not Required | | | | | <u>Day, Evening & Night:</u> 35 <u>Night</u> <u>L_{A1} (1 min):</u> 45 | Day – 1.5 hrs | | | |
| | | | | | | | Evening – 0.5 hrs | | | |
| | | | | | | | Night – 1 hr | | | |
| N6 | Not Required | | | | | <u>Day, Evening & Night:</u> 35 <u>Night</u> <u>L_{A1} (1 min):</u> 45 | Day – 1.5 hrs | | | |
| | | | | | | | Evening – 0.5 hrs | | | |
| | | | | | | | Night – 1 hr | | | |
| N7 | Not Required | | | | | <u>Day, Evening & Night:</u> 35 <u>Night</u> <u>L_{A1} (1 min):</u> 45 | Day – 1.5 hrs | | | |
| | | | | | | | Evening – 0.5 hrs | | | |
| | | | | | | | Night – 1 hr | | | |
| N8 | Monitoring at N8 to commence when surface activities approach the eastern end of the southern longwall panels. | | | | | | | | | |

Figure 1 – EPL 12789 Monitoring Locations



NARRABRI MINE – MONTHLY MONITORING SUMMARY

Site Information

EPL No: 12789

EPA Website Link: <http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=34050&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 2014

Publication Date: 16th October 2014

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 ² /month | Once a month (min. 4 weeks) | 1 | 12-Sep-14 | 22-Sep-14 | N/A | N/A | N/A | 1.2 |
| 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 – Upon discharge | 0 | | | | | | |
| | TOC | mg/L | | 0 | | | | | | |
| | Oil & Grease | mg/L | | 0 | | | | | | |
| | pH | pH | | 0 | | | | | | |
| | TSS | mg/L | | 0 | | | | | | |
| 15 | Conductivity | µs/cm | Quarterly – 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 – Upon discharge | 0 | | | | | | |
| | TOC | mg/L | | 0 | | | | | | |
| | Oil & Grease | mg/L | | 0 | | | | | | |
| | pH | pH | | 0 | | | | | | |
| | TSS | mg/L | | 0 | | | | | | |
| 17 | Conductivity | µs/cm | Quarterly – 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 – Upon discharge | 0 | | | | | | |
| | TOC | mg/L | | 0 | | | | | | |
| | Oil & Grease | mg/L | | 0 | | | | | | |
| | pH | pH | | 0 | | | | | | |
| | TSS | mg/L | | 0 | | | | | | |
| 20 | Conductivity | µs/cm | Quarterly – Upon discharge | 0 | | | | | | |
| | TOC | mg/L | | 0 | | | | | | |
| | Oil & Grease | mg/L | | 0 | | | | | | |
| | pH | pH | | 0 | | | | | | |
| | TSS | mg/L | | 0 | | | | | | |
| 21 | Conductivity | µs/cm | Quarterly – Upon discharge | 0 | | | | | | |
| | TOC | mg/L | | 0 | | | | | | |
| | Oil & Grease | mg/L | | 0 | | | | | | |
| | pH | pH | | 0 | | | | | | |
| | TSS | mg/L | | 0 | | | | | | |
| 22 | Conductivity | µs/cm | Quarterly – Upon discharge | 0 | | | | | | |
| | TOC | mg/L | | 0 | | | | | | |
| | Oil & Grease | mg/L | | 0 | | | | | | |
| | 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) <small>L_{eq} 15min Day</small> | Measured Levels – dB(A) <small>L_{eq} 15min Evening</small> | Measured Levels – dB(A) <small>L_{eq} 15min Night</small> | Measured Levels – dB(A) <small>L_{A1} (1 min) Night</small> | Limit(s) | Measurement Periods | Weather Compliant Conditions | Compliant (Yes/No) | Comments |
|--------|-----------|--|--|--|--|--|---------------------|------------------------------|--------------------|-------------------------|
| N1 | 17-Sep-14 | Faintly audible | 37 | 39 | 45 | <u>Day, Evening & Night:</u> 35 <u>Night</u> <u>L_{A1} (1 min):</u> 45 | Day – 1.5 hrs | No | Yes | Results are NM sources. |
| | 18-Sep-14 | 29 | 37 | Faintly audible | 23 | | Evening – 0.5 hrs | No | Yes | Results are NM sources. |
| | 19-Sep-14 | 38 | 38 | 28 | 34 | | Night – 1 hr | No | No | Results are NM sources. |
| N3 | 17-Sep-14 | 25 | 36 | 27 | 33 | <u>Day, Evening & Night:</u> 35 <u>Night</u> <u>L_{A1} (1 min):</u> 45 | Day – 1.5 hrs | No | Yes | Results are NM sources. |
| | 18-Sep-14 | 29 | 32 | 23 | 26 | | Evening – 0.5 hrs | No | Yes | Results are NM sources. |
| | 19-Sep-14 | Inaudible | 33 | 30 | 35 | | Night – 1 hr | No | Yes | Results are NM sources. |

| EPL ID | Date | Measured Levels – dB(A) L _{eq} 15min Day | Measured Levels – dB(A) L _{eq} 15min Evening | Measured Levels – dB(A) L _{eq} 15min Night | Measured Levels – dB(A) L _{A1} (1 min) Night | Limit(s) | Measurement Periods | Weather Compliant Conditions | Compliant (Yes/No) | Comments |
|--------|--|--|--|--|--|--|---------------------|------------------------------|--------------------|--|
| N5 | 17-Sep-14 | Inaudible | 29 | <20 | 23 | <u>Day, Evening & Night:</u> 35 <u>Night</u> <u>L_{A1} (1 min):</u> 45 | Day – 1.5 hrs | No | Yes | Results are NM sources. |
| | 18-Sep-14 | Faintly audible | Inaudible | Inaudible | N/A | | Evening – 0.5 hrs | No | Yes | Results are NM sources. |
| | 19-Sep-14 | Inaudible | Faintly audible | Inaudible | N/A | | Night – 1 hr | No | Yes | Results are NM sources. |
| N6 | 17-Sep-14 | <20 | <20 | <20 | 21 | <u>Day, Evening & Night:</u> 35 <u>Night</u> <u>L_{A1} (1 min):</u> 45 | Day – 1.5 hrs | No | Yes | Results are NM sources. Monitoring undertaken at mine boundary so levels calculated for residence. |
| | 18-Sep-14 | Faintly audible | 19 | 19 | 23 | | Evening – 0.5 hrs | No | Yes | |
| | 19-Sep-14 | 12 | 21 | 21 | 25 | | Night – 1 hr | No | Yes | |
| N7 | 17-Sep-14 | Inaudible | 32 | 33 | 36 | <u>Day, Evening & Night:</u> 35 <u>Night</u> <u>L_{A1} (1 min):</u> 45 | Day – 1.5 hrs | No | Yes | Results are NM sources. |
| | 18-Sep-14 | 24 | 29 | 36 | 40 | | Evening – 0.5 hrs | No | Yes | Results are NM sources. |
| | 19-Sep-14 | 26 | 33 | 30 | 35 | | 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



NARRABRI MINE – MONTHLY MONITORING SUMMARY

Site Information

EPL No: 12789

EPA Website Link: <http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=34050&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: October 2014

Publication Date: 4th November 2014

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 ² /month | Once a month (min. 4 weeks) | 1 | 13-Oct-14 | 23-Oct-14 | N/A | N/A | N/A | <0.1 |
| 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 – Upon discharge | 0 | | | | | | |
| | TOC | mg/L | | 0 | | | | | | |
| | Oil & Grease | mg/L | | 0 | | | | | | |
| | pH | pH | | 0 | | | | | | |
| | TSS | mg/L | | 0 | | | | | | |
| 15 | Conductivity | µs/cm | Quarterly – 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 – Upon discharge | 0 | | | | | | |
| | TOC | mg/L | | 0 | | | | | | |
| | Oil & Grease | mg/L | | 0 | | | | | | |
| | pH | pH | | 0 | | | | | | |
| | TSS | mg/L | | 0 | | | | | | |
| 17 | Conductivity | µs/cm | Quarterly – 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 – Upon discharge | 0 | | | | | | |
| | TOC | mg/L | | 0 | | | | | | |
| | Oil & Grease | mg/L | | 0 | | | | | | |
| | pH | pH | | 0 | | | | | | |
| | TSS | mg/L | | 0 | | | | | | |
| 20 | Conductivity | µs/cm | Quarterly – Upon discharge | 0 | | | | | | |
| | TOC | mg/L | | 0 | | | | | | |
| | Oil & Grease | mg/L | | 0 | | | | | | |
| | pH | pH | | 0 | | | | | | |
| | TSS | mg/L | | 0 | | | | | | |
| 21 | Conductivity | µs/cm | Quarterly – Upon discharge | 0 | | | | | | |
| | TOC | mg/L | | 0 | | | | | | |
| | Oil & Grease | mg/L | | 0 | | | | | | |
| | pH | pH | | 0 | | | | | | |
| | TSS | mg/L | | 0 | | | | | | |
| 22 | Conductivity | µs/cm | Quarterly – Upon discharge | 0 | | | | | | |
| | TOC | mg/L | | 0 | | | | | | |
| | Oil & Grease | mg/L | | 0 | | | | | | |
| | 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) <small>L_{eq} 15min Day</small> | Measured Levels – dB(A) <small>L_{eq} 15min Evening</small> | Measured Levels – dB(A) <small>L_{eq} 15min Night</small> | Measured Levels – dB(A) <small>L_{A1} (1 min) Night</small> | Limit(s) | Measurement Periods | Weather Compliant Conditions | Compliant (Yes/No) | Comments |
|--------|--------------|--|--|--|--|--|---------------------|------------------------------|--------------------|----------|
| N1 | Not Required | | | | | <u>Day, Evening & Night:</u> 35 | Day – 1.5 hrs | | | |
| | | | | | | <u>Night</u> <u>L_{A1} (1 min):</u> 45 | Evening – 0.5 hrs | | | |
| | | | | | | | Night – 1 hr | | | |
| N3 | Not Required | | | | | <u>Day, Evening & Night:</u> 35 | Day – 1.5 hrs | | | |
| | | | | | | <u>Night</u> <u>L_{A1} (1 min):</u> 45 | Evening – 0.5 hrs | | | |
| | | | | | | | Night – 1 hr | | | |



| EPL ID | Date | Measured Levels – dB(A) L _{eq} 15min Day | Measured Levels – dB(A) L _{eq} 15min Evening | Measured Levels – dB(A) L _{eq} 15min Night | Measured Levels – dB(A) L _{A1} (1 min) Night | Limit(s) | Measurement Periods | Weather Compliant Conditions | Compliant (Yes/No) | Comments |
|--------|--|--|--|--|--|--|---------------------|------------------------------|--------------------|----------|
| N5 | Not Required | | | | | <u>Day, Evening & Night:</u> 35 <u>Night</u> <u>L_{A1} (1 min):</u> 45 | Day – 1.5 hrs | | | |
| | | | | | | | Evening – 0.5 hrs | | | |
| | | | | | | | Night – 1 hr | | | |
| N6 | Not Required | | | | | <u>Day, Evening & Night:</u> 35 <u>Night</u> <u>L_{A1} (1 min):</u> 45 | Day – 1.5 hrs | | | |
| | | | | | | | Evening – 0.5 hrs | | | |
| | | | | | | | Night – 1 hr | | | |
| N7 | Not Required | | | | | <u>Day, Evening & Night:</u> 35 <u>Night</u> <u>L_{A1} (1 min):</u> 45 | Day – 1.5 hrs | | | |
| | | | | | | | Evening – 0.5 hrs | | | |
| | | | | | | | Night – 1 hr | | | |
| N8 | Monitoring at N8 to commence when surface activities approach the eastern end of the southern longwall panels. | | | | | | | | | |

Figure 1 – EPL 12789 Monitoring Locations



NARRABRI MINE – MONTHLY MONITORING SUMMARY

Site Information

EPL No: 12789

EPA Website Link: <http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=40629&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: November 2014

Publication Date: 4th December 2014

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 ² /month | Once a month (min. 4 weeks) | 1 | 13-Nov-14 | 21-Nov-14 | N/A | N/A | N/A | 1.1 |
| 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 – Upon discharge | 0 | | | | | | |
| | TOC | mg/L | | 0 | | | | | | |
| | Oil & Grease | mg/L | | 0 | | | | | | |
| | pH | pH | | 0 | | | | | | |
| | TSS | mg/L | | 0 | | | | | | |
| 15 | Conductivity | µs/cm | Quarterly – 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 – Upon discharge | 0 | | | | | | |
| | TOC | mg/L | | 0 | | | | | | |
| | Oil & Grease | mg/L | | 0 | | | | | | |
| | pH | pH | | 0 | | | | | | |
| | TSS | mg/L | | 0 | | | | | | |
| 17 | Conductivity | µs/cm | Quarterly – 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 – Upon discharge | 0 | | | | | | |
| | TOC | mg/L | | 0 | | | | | | |
| | Oil & Grease | mg/L | | 0 | | | | | | |
| | pH | pH | | 0 | | | | | | |
| | TSS | mg/L | | 0 | | | | | | |
| 20 | Conductivity | µs/cm | Quarterly – Upon discharge | 0 | | | | | | |
| | TOC | mg/L | | 0 | | | | | | |
| | Oil & Grease | mg/L | | 0 | | | | | | |
| | pH | pH | | 0 | | | | | | |
| | TSS | mg/L | | 0 | | | | | | |
| 21 | Conductivity | µs/cm | Quarterly – Upon discharge | 0 | | | | | | |
| | TOC | mg/L | | 0 | | | | | | |
| | Oil & Grease | mg/L | | 0 | | | | | | |
| | pH | pH | | 0 | | | | | | |
| | TSS | mg/L | | 0 | | | | | | |
| 22 | Conductivity | µs/cm | Quarterly – Upon discharge | 0 | | | | | | |
| | TOC | mg/L | | 0 | | | | | | |
| | Oil & Grease | mg/L | | 0 | | | | | | |
| | 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) <small>L_{eq} 15min Day</small> | Measured Levels – dB(A) <small>L_{eq} 15min Evening</small> | Measured Levels – dB(A) <small>L_{eq} 15min Night</small> | Measured Levels – dB(A) <small>L_{A1} (1 min) Night</small> | Limit(s) | Measurement Periods | Weather Compliant Conditions | Compliant (Yes/No) | Comments |
|--------|--------------|--|--|--|--|--|---------------------|------------------------------|--------------------|----------|
| N1 | Not required | | | | | <u>Day, Evening & Night:</u> 35 <u>Night</u> <u>L_{A1} (1 min):</u> 45 | Day – 1.5 hrs | | | |
| | | | | | | | Evening – 0.5 hrs | | | |
| | | | | | | | Night – 1 hr | | | |
| N3 | Not required | | | | | <u>Day, Evening & Night:</u> 35 <u>Night</u> <u>L_{A1} (1 min):</u> 45 | Day – 1.5 hrs | | | |
| | | | | | | | Evening – 0.5 hrs | | | |
| | | | | | | | Night – 1 hr | | | |

| EPL ID | Date | Measured Levels – dB(A) L _{eq} 15min Day | Measured Levels – dB(A) L _{eq} 15min Evening | Measured Levels – dB(A) L _{eq} 15min Night | Measured Levels – dB(A) L _{A1} (1 min) Night | Limit(s) | Measurement Periods | Weather Compliant Conditions | Compliant (Yes/No) | Comments |
|--------|--|--|--|--|--|--|---------------------|------------------------------|--------------------|----------|
| N5 | Not required | | | | | <u>Day, Evening & Night:</u> 35 <u>Night</u> <u>L_{A1} (1 min):</u> 45 | Day – 1.5 hrs | | | |
| | | | | | | | Evening – 0.5 hrs | | | |
| | | | | | | | Night – 1 hr | | | |
| N6 | Not required | | | | | <u>Day, Evening & Night:</u> 35 <u>Night</u> <u>L_{A1} (1 min):</u> 45 | Day – 1.5 hrs | | | |
| | | | | | | | Evening – 0.5 hrs | | | |
| | | | | | | | Night – 1 hr | | | |
| N7 | Not required | | | | | <u>Day, Evening & Night:</u> 35 <u>Night</u> <u>L_{A1} (1 min):</u> 45 | Day – 1.5 hrs | | | |
| | | | | | | | Evening – 0.5 hrs | | | |
| | | | | | | | Night – 1 hr | | | |
| N8 | Monitoring at N8 to commence when surface activities approach the eastern end of the southern longwall panels. | | | | | | | | | |

Figure 1 – EPL 12789 Monitoring Locations



NARRABRI MINE – MONTHLY MONITORING SUMMARY

Site Information

EPL No: 12789

EPA Website Link: <http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=40629&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: December 2014

Publication Date: 2nd January 2014

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 ² /month | Once a month (min. 4 weeks) | 1 | 13-Dec-14 | 22-Dec-14 | 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 – Upon discharge | 0 | | | | | | |
| | TOC | mg/L | | 0 | | | | | | |
| | Oil & Grease | mg/L | | 0 | | | | | | |
| | pH | pH | | 0 | | | | | | |
| | TSS | mg/L | | 0 | | | | | | |
| 15 | Conductivity | µs/cm | Quarterly – 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 – Upon discharge | 0 | | | | | | |
| | TOC | mg/L | | 0 | | | | | | |
| | Oil & Grease | mg/L | | 0 | | | | | | |
| | pH | pH | | 0 | | | | | | |
| | TSS | mg/L | | 0 | | | | | | |
| 17 | Conductivity | µs/cm | Quarterly – 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 – Upon discharge | 0 | | | | | | |
| | TOC | mg/L | | 0 | | | | | | |
| | Oil & Grease | mg/L | | 0 | | | | | | |
| | pH | pH | | 0 | | | | | | |
| | TSS | mg/L | | 0 | | | | | | |
| 20 | Conductivity | µs/cm | Quarterly – Upon discharge | 0 | | | | | | |
| | TOC | mg/L | | 0 | | | | | | |
| | Oil & Grease | mg/L | | 0 | | | | | | |
| | pH | pH | | 0 | | | | | | |
| | TSS | mg/L | | 0 | | | | | | |
| 21 | Conductivity | µs/cm | Quarterly – Upon discharge | 0 | | | | | | |
| | TOC | mg/L | | 0 | | | | | | |
| | Oil & Grease | mg/L | | 0 | | | | | | |
| | pH | pH | | 0 | | | | | | |
| | TSS | mg/L | | 0 | | | | | | |
| 22 | Conductivity | µs/cm | Quarterly – Upon discharge | 0 | | | | | | |
| | TOC | mg/L | | 0 | | | | | | |
| | Oil & Grease | mg/L | | 0 | | | | | | |
| | 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) <small>L_{eq} 15min Day</small> | Measured Levels – dB(A) <small>L_{eq} 15min Evening</small> | Measured Levels – dB(A) <small>L_{eq} 15min Night</small> | Measured Levels – dB(A) <small>L_{A1} (1 min) Night</small> | Limit(s) | Measurement Periods | Weather Compliant Conditions | Compliant (Yes/No) | Comments |
|--------|----------|--|--|--|--|--|---------------------|------------------------------|--------------------|-------------------------|
| N1 | 1-Dec-14 | Inaudible | 29 | 30 | 34 | <u>Day, Evening & Night:</u> 35 <u>Night</u> <u>L_{A1} (1 min):</u> 45 | Day – 1.5 hrs | No | Yes | Results are NM sources. |
| | 2-Dec-14 | 24 | 26 | 26 | 30 | | Evening – 0.5 hrs | No | Yes | Results are NM sources. |
| | 3-Dec-14 | Inaudible | Inaudible | 33 | 37 | | Night – 1 hr | No | Yes | Results are NM sources. |
| N3 | 1-Dec-14 | Faintly audible | 29 | 28 | 31 | <u>Day, Evening & Night:</u> 35 <u>Night</u> <u>L_{A1} (1 min):</u> 45 | Day – 1.5 hrs | No | Yes | Results are NM sources. |
| | 2-Dec-14 | Inaudible | 25 | 34 | 38 | | Evening – 0.5 hrs | No | Yes | Results are NM sources. |
| | 3-Dec-14 | Inaudible | 30 | Inaudible | N/A | | Night – 1 hr | No | Yes | Results are NM sources. |

| EPL ID | Date | Measured Levels – dB(A) L _{eq} 15min Day | Measured Levels – dB(A) L _{eq} 15min Evening | Measured Levels – dB(A) L _{eq} 15min Night | Measured Levels – dB(A) L _{A1} (1 min) Night | Limit(s) | Measurement Periods | Weather Compliant Conditions | Compliant (Yes/No) | Comments |
|--------|--|--|--|--|--|--|---------------------|------------------------------|--------------------|--|
| N5 | 1-Dec-14 | Inaudible | 26 | 30 | 33 | <u>Day, Evening & Night:</u> 35 <u>Night</u> <u>L_{A1} (1 min):</u> 45 | Day – 1.5 hrs | No | Yes | Results are NM sources. |
| | 2-Dec-14 | Inaudible | 25 | 25 | 28 | | Evening – 0.5 hrs | No | Yes | Results are NM sources. |
| | 3-Dec-14 | Inaudible | 25 | Inaudible | N/A | | Night – 1 hr | No | Yes | Results are NM sources. |
| N6 | 1-Dec-14 | 24 | <10 | <20 | <20 | <u>Day, Evening & Night:</u> 35 <u>Night</u> <u>L_{A1} (1 min):</u> 45 | Day – 1.5 hrs | No | Yes | Results are NM sources. Monitoring undertaken at mine boundary so levels calculated for residence. |
| | 2-Dec-14 | <20 | <10 | <20 | <20 | | Evening – 0.5 hrs | No | Yes | |
| | 3-Dec-14 | <20 | 23 | 23 | 25 | | Night – 1 hr | No | Yes | |
| N7 | 1-Dec-14 | Inaudible | Inaudible | Inaudible | N/A | <u>Day, Evening & Night:</u> 35 <u>Night</u> <u>L_{A1} (1 min):</u> 45 | Day – 1.5 hrs | No | Yes | Results are NM sources. |
| | 2-Dec-14 | Inaudible | Inaudible | Inaudible | N/A | | Evening – 0.5 hrs | No | Yes | Results are NM sources. |
| | 3-Dec-14 | Inaudible | Inaudible | Inaudible | N/A | | 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

