

## NARRABRI MINE – MONTHLY MONITORING SUMMARY

### Site Information

**EPL No:** 12789

**EPA Website Link:** <http://www.environment.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=31557&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 2013

**Publication Date:** 11<sup>th</sup> February 2013

**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	17-Jan-13	24-Jan-13	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	29-Jan-13	6-Feb-13	-	-	-	162
	TOC	mg/L		1	29-Jan-13	6-Feb-13	-	-	-	20
	Oil & Grease	mg/L		1	29-Jan-13	6-Feb-13	-	-	-	<5
	pH	pH		1	29-Jan-13	6-Feb-13	-	-	-	7.09
	TSS	mg/L		1	29-Jan-13	6-Feb-13	-	-	-	23



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	29-Jan-13	6-Feb-13	-	-	-	89
	TOC	mg/L		1	29-Jan-13	6-Feb-13	-	-	-	31
	Oil & Grease	mg/L		1	29-Jan-13	6-Feb-13	-	-	-	<5
	pH	pH		1	29-Jan-13	6-Feb-13	-	-	-	6.68
	TSS	mg/L		1	29-Jan-13	6-Feb-13	-	-	-	7
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	1	29-Jan-13	6-Feb-13	-	-	-	426
	TOC	mg/L		1	29-Jan-13	6-Feb-13	-	-	-	15
	Oil & Grease	mg/L		1	29-Jan-13	6-Feb-13	-	-	-	<5
	pH	pH		1	29-Jan-13	6-Feb-13	-	-	-	7.09
	TSS	mg/L		1	29-Jan-13	6-Feb-13	-	-	-	72
20	Conductivity	µs/cm	Quarterly – Upon discharge	1	29-Jan-13	6-Feb-13	-	-	-	387
	TOC	mg/L		1	29-Jan-13	6-Feb-13	-	-	-	16
	Oil & Grease	mg/L		1	29-Jan-13	6-Feb-13	-	-	-	<5
	pH	pH		1	29-Jan-13	6-Feb-13	-	-	-	6.82
	TSS	mg/L		1	29-Jan-13	6-Feb-13	-	-	-	65
21	Conductivity	µs/cm	Quarterly – Upon discharge	1	29-Jan-13	6-Feb-13	-	-	-	162
	TOC	mg/L		1	29-Jan-13	6-Feb-13	-	-	-	17
	Oil & Grease	mg/L		1	29-Jan-13	6-Feb-13	-	-	-	<5
	pH	pH		1	29-Jan-13	6-Feb-13	-	-	-	7.01
	TSS	mg/L		1	29-Jan-13	6-Feb-13	-	-	-	55
22	Conductivity	µs/cm	Quarterly – Upon discharge	1	29-Jan-13	6-Feb-13	-	-	-	92
	TOC	mg/L		1	29-Jan-13	6-Feb-13	-	-	-	18
	Oil & Grease	mg/L		1	29-Jan-13	6-Feb-13	-	-	-	<5
	pH	pH		1	29-Jan-13	6-Feb-13	-	-	-	6.89
	TSS	mg/L		1	29-Jan-13	6-Feb-13	-	-	-	90

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



EPL ID	Date	Measured Levels – dB(A) L <sub>eq</sub> 15min Day	Measured Levels – dB(A) L <sub>eq</sub> 15min Evening	Measured Levels – dB(A) L <sub>eq</sub> 15min Night	Measured Levels – dB(A) L <sub>A1</sub> (1 min) Night	Limit(s)	Measurement Periods	Weather Compliant Conditions	Compliant (Yes/No)	Comments
N5	Not Required					<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>L<sub>A1</sub> (1 min):</u> 45	Day – 1.5 hrs			
							Evening – 0.5 hrs			
							Night – 1 hr			
N6	Not Required					<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>L<sub>A1</sub> (1 min):</u> 45	Day – 1.5 hrs			
							Evening – 0.5 hrs			
							Night – 1 hr			
N7	Not Required					<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>L<sub>A1</sub> (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



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### Site Information

**EPL No:** 12789

**EPA Website Link:** <http://www.environment.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=31557&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 2013

**Publication Date:** 6<sup>th</sup> March 2013

**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-Feb-13	26-Feb-13	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<sub>eq</sub> 15min Day</small>	Measured Levels – dB(A) <small>L<sub>eq</sub> 15min Evening</small>	Measured Levels – dB(A) <small>L<sub>eq</sub> 15min Night</small>	Measured Levels – dB(A) <small>L<sub>A1</sub> (1 min) Night</small>	Limit(s)	Measurement Periods	Weather Compliant Conditions	Compliant (Yes/No)	Comments
N1	Not Required					<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>L<sub>A1</sub> (1 min):</u> 45	Day – 1.5 hrs			
							Evening – 0.5 hrs			
							Night – 1 hr			
N3	Not Required					<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>L<sub>A1</sub> (1 min):</u> 45	Day – 1.5 hrs			
							Evening – 0.5 hrs			
							Night – 1 hr			



EPL ID	Date	Measured Levels – dB(A) L <sub>eq</sub> 15min Day	Measured Levels – dB(A) L <sub>eq</sub> 15min Evening	Measured Levels – dB(A) L <sub>eq</sub> 15min Night	Measured Levels – dB(A) L <sub>A1</sub> (1 min) Night	Limit(s)	Measurement Periods	Weather Compliant Conditions	Compliant (Yes/No)	Comments
N5	Not Required					<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>L<sub>A1</sub> (1 min):</u> 45	Day – 1.5 hrs			
							Evening – 0.5 hrs			
							Night – 1 hr			
N6	Not Required					<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>L<sub>A1</sub> (1 min):</u> 45	Day – 1.5 hrs			
							Evening – 0.5 hrs			
							Night – 1 hr			
N7	Not Required					<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>L<sub>A1</sub> (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



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### Site Information

**EPL No:** 12789

**EPA Website Link:** <http://www.environment.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=31557&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 2012

**Publication Date:** 8<sup>th</sup> April 2013

**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-Mar-13	26-Mar-13	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	0						
	TOC	mg/L		0						
13	Conductivity	µs/cm	Upon discharge	0						
	TOC	mg/L		0						
14	Conductivity	µs/cm	Quarterly – Upon discharge	1	1-Mar-13	12-Mar-13	-	-	-	88
	TOC	mg/L		1	1-Mar-13	12-Mar-13	-	-	-	11
	Oil & Grease	mg/L		1	1-Mar-13	12-Mar-13	-	-	-	<5
	pH	pH		1	1-Mar-13	12-Mar-13	-	-	-	6.96
	TSS	mg/L		1	1-Mar-13	12-Mar-13	-	-	-	238
15	Conductivity	µs/cm	Quarterly – Upon discharge	1	1-Mar-13	12-Mar-13	-	-	-	206
	TOC	mg/L		1	1-Mar-13	12-Mar-13	-	-	-	10
	Oil & Grease	mg/L		1	1-Mar-13	12-Mar-13	-	-	-	<5
	pH	pH		1	1-Mar-13	12-Mar-13	-	-	-	7.15
	TSS	mg/L		1	1-Mar-13	12-Mar-13	-	-	-	322



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	1-Mar-13	12-Mar-13	-	-	-	45
	TOC	mg/L		1	1-Mar-13	12-Mar-13	-	-	-	9
	Oil & Grease	mg/L		1	1-Mar-13	12-Mar-13	-	-	-	<5
	pH	pH		1	1-Mar-13	12-Mar-13	-	-	-	6.76
	TSS	mg/L		1	1-Mar-13	12-Mar-13	-	-	-	36
17	Conductivity	µs/cm	Quarterly – Upon discharge	1	1-Mar-13	12-Mar-13	-	-	-	204
	TOC	mg/L		1	1-Mar-13	12-Mar-13	-	-	-	17
	Oil & Grease	mg/L		1	1-Mar-13	12-Mar-13	-	-	-	<5
	pH	pH		1	1-Mar-13	12-Mar-13	-	-	-	7.33
	TSS	mg/L		1	1-Mar-13	12-Mar-13	-	-	-	27
18	Conductivity	µs/cm	Upon discharge	SD7 not yet constructed						
	TOC	mg/L								
19	Conductivity	µs/cm	Quarterly – Upon discharge	1	1-Mar-13	12-Mar-13	-	-	-	195
	TOC	mg/L		1	1-Mar-13	12-Mar-13	-	-	-	6
	Oil & Grease	mg/L		1	1-Mar-13	12-Mar-13	-	-	-	<5
	pH	pH		1	1-Mar-13	12-Mar-13	-	-	-	7.13
	TSS	mg/L		1	1-Mar-13	12-Mar-13	-	-	-	750
20	Conductivity	µs/cm	Quarterly – Upon discharge	1	1-Mar-13	12-Mar-13	-	-	-	89
	TOC	mg/L		1	1-Mar-13	12-Mar-13	-	-	-	16
	Oil & Grease	mg/L		1	1-Mar-13	12-Mar-13	-	-	-	<5
	pH	pH		1	1-Mar-13	12-Mar-13	-	-	-	6.83
	TSS	mg/L		1	1-Mar-13	12-Mar-13	-	-	-	322
21	Conductivity	µs/cm	Quarterly – Upon discharge	1	1-Mar-13	12-Mar-13	-	-	-	54
	TOC	mg/L		1	1-Mar-13	12-Mar-13	-	-	-	10
	Oil & Grease	mg/L		1	1-Mar-13	12-Mar-13	-	-	-	<5
	pH	pH		1	1-Mar-13	12-Mar-13	-	-	-	6.83
	TSS	mg/L		1	1-Mar-13	12-Mar-13	-	-	-	358
22	Conductivity	µs/cm	Quarterly – Upon discharge	1	1-Mar-13	12-Mar-13	-	-	-	55
	TOC	mg/L		1	1-Mar-13	12-Mar-13	-	-	-	8
	Oil & Grease	mg/L		1	1-Mar-13	12-Mar-13	-	-	-	<5
	pH	pH		1	1-Mar-13	12-Mar-13	-	-	-	6.78
	TSS	mg/L		1	1-Mar-13	12-Mar-13	-	-	-	234

**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 <sub>eq</sub> 15min Day	Measured Levels – dB(A) L <sub>eq</sub> 15min Evening	Measured Levels – dB(A) L <sub>eq</sub> 15min Night	Measured Levels – dB(A) L <sub>A1</sub> (1 min) Night	Limit(s)	Measurement Periods	Weather Compliant Conditions	Compliant (Yes/No)	Comments
N1	8-Mar-13	Inaudible	Inaudible	25	38	<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>L<sub>A1</sub> (1 min):</u> 45	Day – 1.5 hrs	Yes	Yes	Results are NM* sources
	9-Mar-13	Inaudible	Inaudible	Inaudible	n/a		Evening – 0.5 hrs	Yes	Yes	Results are NM sources
	10-Mar-13	<25	Inaudible	22	32		Night – 1 hr	Yes	Yes	Results are NM sources
N3	8-Mar-13	Inaudible	Inaudible	26	30	<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>L<sub>A1</sub> (1 min):</u> 45	Day – 1.5 hrs	Yes	Yes	Results are NM sources
	9-Mar-13	Inaudible	Inaudible	Inaudible	n/a		Evening – 0.5 hrs	Yes	Yes	Results are NM sources
	10-Mar-13	Inaudible	Inaudible	28	35		Night – 1 hr	Yes	Yes	Results are NM sources



EPL ID	Date	Measured Levels – dB(A) L <sub>eq</sub> 15min Day	Measured Levels – dB(A) L <sub>eq</sub> 15min Evening	Measured Levels – dB(A) L <sub>eq</sub> 15min Night	Measured Levels – dB(A) L <sub>A1</sub> (1 min) Night	Limit(s)	Measurement Periods	Weather Compliant Conditions	Compliant (Yes/No)	Comments
N5	8-Mar-13	Inaudible	Inaudible	<20	25	<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>L<sub>A1</sub> (1 min):</u> 45	Day – 1.5 hrs	Yes	Yes	Results are NM sources
	9-Mar-13	Inaudible	Inaudible	25	33		Evening – 0.5 hrs	Yes	Yes	Results are NM sources
	10-Mar-13	Inaudible	Inaudible	Inaudible	n/a		Night – 1 hr	Yes	Yes	Results are NM sources
N6	8-Mar-13	32	32	36	41	<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>L<sub>A1</sub> (1 min):</u> 45	Day – 1.5 hrs	Yes	Yes	Results are NM sources. Monitoring undertaken at mine boundary therefore levels at residence will be lower than reported.
	9-Mar-13	32	31	29	33		Evening – 0.5 hrs			
	10-Mar-13	34	33	32	36		Night – 1 hr			
N7	8-Mar-13	Inaudible	28	<15	20	<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>L<sub>A1</sub> (1 min):</u> 45	Day – 1.5 hrs	Yes	Yes	Results are NM sources
	9-Mar-13	Inaudible	Inaudible	Inaudible	n/a		Evening – 0.5 hrs	Yes	Yes	Results are NM sources
	10-Mar-13	<20	35	Inaudible	n/a		Night – 1 hr	Yes	Yes	Results are NM sources
N8	Monitoring at N8 to commence when surface activities approach the eastern end of the southern longwall panels.									

\* NM = Narrabri Mine

Figure 1 – EPL 12789 Monitoring Locations



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**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 2013

**Publication Date:** 3<sup>rd</sup> May 2013

**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-Apr-13	22-Apr-13	N/A	N/A	N/A	1.3
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<sub>eq</sub> 15min Day</small>	Measured Levels – dB(A) <small>L<sub>eq</sub> 15min Evening</small>	Measured Levels – dB(A) <small>L<sub>eq</sub> 15min Night</small>	Measured Levels – dB(A) <small>L<sub>A1</sub> (1 min) Night</small>	Limit(s)	Measurement Periods	Weather Compliant Conditions	Compliant (Yes/No)	Comments
N1	Not required					<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>L<sub>A1</sub> (1 min):</u> 45	Day – 1.5 hrs			
							Evening – 0.5 hrs			
							Night – 1 hr			
N3	Not required					<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>L<sub>A1</sub> (1 min):</u> 45	Day – 1.5 hrs			
							Evening – 0.5 hrs			
							Night – 1 hr			





EPL ID	Date	Measured Levels – dB(A) L <sub>eq</sub> 15min Day	Measured Levels – dB(A) L <sub>eq</sub> 15min Evening	Measured Levels – dB(A) L <sub>eq</sub> 15min Night	Measured Levels – dB(A) L <sub>A1</sub> (1 min) Night	Limit(s)	Measurement Periods	Weather Compliant Conditions	Compliant (Yes/No)	Comments
N5	Not required					<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>L<sub>A1</sub> (1 min):</u> 45	Day – 1.5 hrs			
							Evening – 0.5 hrs			
							Night – 1 hr			
N6	Not required					<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>L<sub>A1</sub> (1 min):</u> 45	Day – 1.5 hrs			
							Evening – 0.5 hrs			
							Night – 1 hr			
N7	Not required					<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>L<sub>A1</sub> (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.environment.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=31557&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 2013

**Publication Date:** 3<sup>rd</sup> June 2013

**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-May-13	21-May-13	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	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<sub>eq</sub> 15min Day</small>	Measured Levels – dB(A) <small>L<sub>eq</sub> 15min Evening</small>	Measured Levels – dB(A) <small>L<sub>eq</sub> 15min Night</small>	Measured Levels – dB(A) <small>L<sub>A1</sub> (1 min) Night</small>	Limit(s)	Measurement Periods	Weather Compliant Conditions	Compliant (Yes/No)	Comments
N1	Not Required					<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>L<sub>A1</sub> (1 min):</u> 45	Day – 1.5 hrs			
							Evening – 0.5 hrs			
							Night – 1 hr			
N3	Not Required					<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>L<sub>A1</sub> (1 min):</u> 45	Day – 1.5 hrs			
							Evening – 0.5 hrs			
							Night – 1 hr			





EPL ID	Date	Measured Levels – dB(A) L <sub>eq</sub> 15min Day	Measured Levels – dB(A) L <sub>eq</sub> 15min Evening	Measured Levels – dB(A) L <sub>eq</sub> 15min Night	Measured Levels – dB(A) L <sub>A1</sub> (1 min) Night	Limit(s)	Measurement Periods	Weather Compliant Conditions	Compliant (Yes/No)	Comments
N5	Not Required					<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>L<sub>A1</sub> (1 min):</u> 45	Day – 1.5 hrs			
							Evening – 0.5 hrs			
							Night – 1 hr			
N6	Not Required					<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>L<sub>A1</sub> (1 min):</u> 45	Day – 1.5 hrs			
							Evening – 0.5 hrs			
							Night – 1 hr			
N7	Not Required					<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>L<sub>A1</sub> (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.environment.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=31557&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 2013

**Publication Date:** 10<sup>th</sup> July 2013

**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	14-Jun-13	25-Jun-13	N/A	N/A	N/A	0.8
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<sub>eq</sub> 15min Day</small>	Measured Levels – dB(A) <small>L<sub>eq</sub> 15min Evening</small>	Measured Levels – dB(A) <small>L<sub>eq</sub> 15min Night</small>	Measured Levels – dB(A) <small>L<sub>A1</sub> (1 min) Night</small>	Limit(s)	Measurement Periods	Weather Compliant Conditions	Compliant (Yes/No)	Comments
N1	23-Jun-13	Inaudible	Inaudible	<30	<35	<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>L<sub>A1</sub> (1 min):</u> 45	Day – 1.5 hrs	Yes	Yes	Results are NM sources
	24-Jun-13	Inaudible	35	39	43		Evening – 0.5 hrs	No – Inversion	Yes	Results are NM sources
	25-Jun-13	Inaudible	Inaudible	22	32		Night – 1 hr	Yes	Yes	Results are NM sources
N3	23-Jun-13	Inaudible	Inaudible	Inaudible	Inaudible	<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>L<sub>A1</sub> (1 min):</u> 45	Day – 1.5 hrs	Yes	Yes	Results are NM sources
	24-Jun-13	31	35	34	38		Evening – 0.5 hrs	Yes	Yes	Results are NM sources
	25-Jun-13	Inaudible	Inaudible	28	35		Night – 1 hr	Yes	Yes	Results are NM sources



EPL ID	Date	Measured Levels – dB(A) L <sub>eq</sub> 15min Day	Measured Levels – dB(A) L <sub>eq</sub> 15min Evening	Measured Levels – dB(A) L <sub>eq</sub> 15min Night	Measured Levels – dB(A) L <sub>A1</sub> (1 min) Night	Limit(s)	Measurement Periods	Weather Compliant Conditions	Compliant (Yes/No)	Comments
N5	23-Jun-13	Inaudible	Inaudible	Inaudible	25	<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>L<sub>A1</sub> (1 min):</u> 45	Day – 1.5 hrs	Yes	Yes	Results are NM sources
	24-Jun-13	<30	Inaudible	<25	<35		Evening – 0.5 hrs	Yes	Yes	Results are NM sources
	25-Jun-13	Inaudible	Inaudible	Inaudible	n/a		Night – 1 hr	Yes	Yes	Results are NM sources
N6	23-Jun-13	34	36	35	42	<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>L<sub>A1</sub> (1 min):</u> 45	Day – 1.5 hrs	No – Inversion	Yes	Results are NM sources. Monitoring undertaken at mine boundary therefore levels at residence will be lower than reported.
	24-Jun-13	36	40	42	45		Evening – 0.5 hrs	Yes	Yes	
	25-Jun-13	Inaudible	33	32	36		Night – 1 hr	No – Inversion	Yes	Results are NM sources
N7	23-Jun-13	<30	<30	<30	<35	<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>L<sub>A1</sub> (1 min):</u> 45	Day – 1.5 hrs	Yes	Yes	Results are NM sources
	24-Jun-13	Inaudible	34	34	38		Evening – 0.5 hrs	Yes	Yes	Results are NM sources
	25-Jun-13	<25	35	Inaudible	n/a		Night – 1 hr	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.environment.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=31557&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 2013

**Publication Date:** 4<sup>th</sup> September 2013

**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	14-Jul-13	22-Jul-13	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	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<sub>eq</sub> 15min Day</small>	Measured Levels – dB(A) <small>L<sub>eq</sub> 15min Evening</small>	Measured Levels – dB(A) <small>L<sub>eq</sub> 15min Night</small>	Measured Levels – dB(A) <small>L<sub>A1</sub> (1 min) Night</small>	Limit(s)	Measurement Periods	Weather Compliant Conditions	Compliant (Yes/No)	Comments
N1	Not Required					<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>L<sub>A1</sub> (1 min):</u> 45	Day – 1.5 hrs			
							Evening – 0.5 hrs			
							Night – 1 hr			
N3	Not Required					<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>L<sub>A1</sub> (1 min):</u> 45	Day – 1.5 hrs			
							Evening – 0.5 hrs			
							Night – 1 hr			



EPL ID	Date	Measured Levels – dB(A) L <sub>eq</sub> 15min Day	Measured Levels – dB(A) L <sub>eq</sub> 15min Evening	Measured Levels – dB(A) L <sub>eq</sub> 15min Night	Measured Levels – dB(A) L <sub>A1</sub> (1 min) Night	Limit(s)	Measurement Periods	Weather Compliant Conditions	Compliant (Yes/No)	Comments
N5	Not Required					<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>L<sub>A1</sub> (1 min):</u> 45	Day – 1.5 hrs			
							Evening – 0.5 hrs			
							Night – 1 hr			
N6	Not Required					<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>L<sub>A1</sub> (1 min):</u> 45	Day – 1.5 hrs			
							Evening – 0.5 hrs			
							Night – 1 hr			
N7	Not Required					<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>L<sub>A1</sub> (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.environment.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=31557&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 2013

**Publication Date:** 10<sup>th</sup> September 2013

**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-Aug-13	20-Aug-13	N/A	N/A	N/A	0.5
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<sub>eq</sub> 15min Day</small>	Measured Levels – dB(A) <small>L<sub>eq</sub> 15min Evening</small>	Measured Levels – dB(A) <small>L<sub>eq</sub> 15min Night</small>	Measured Levels – dB(A) <small>L<sub>A1</sub> (1 min) Night</small>	Limit(s)	Measurement Periods	Weather Compliant Conditions	Compliant (Yes/No)	Comments
N1	Not Required					<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>L<sub>A1</sub> (1 min):</u> 45	Day – 1.5 hrs			
							Evening – 0.5 hrs			
							Night – 1 hr			
N3	Not Required					<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>L<sub>A1</sub> (1 min):</u> 45	Day – 1.5 hrs			
							Evening – 0.5 hrs			
							Night – 1 hr			



EPL ID	Date	Measured Levels – dB(A) L <sub>eq</sub> 15min Day	Measured Levels – dB(A) L <sub>eq</sub> 15min Evening	Measured Levels – dB(A) L <sub>eq</sub> 15min Night	Measured Levels – dB(A) L <sub>A1</sub> (1 min) Night	Limit(s)	Measurement Periods	Weather Compliant Conditions	Compliant (Yes/No)	Comments
N5	Not Required					<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>L<sub>A1</sub> (1 min):</u> 45	Day – 1.5 hrs			
							Evening – 0.5 hrs			
							Night – 1 hr			
N6	Not Required					<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>L<sub>A1</sub> (1 min):</u> 45	Day – 1.5 hrs			
							Evening – 0.5 hrs			
							Night – 1 hr			
N7	Not Required					<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>L<sub>A1</sub> (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:** September 2013

**Publication Date:** 11<sup>th</sup> October 2013

**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	13-Sep-13	24-Sep-13	N/A	N/A	N/A	0.5
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<sub>eq</sub> 15min Day</small>	Measured Levels – dB(A) <small>L<sub>eq</sub> 15min Evening</small>	Measured Levels – dB(A) <small>L<sub>eq</sub> 15min Night</small>	Measured Levels – dB(A) <small>L<sub>A1</sub> (1 min) Night</small>	Limit(s)	Measurement Periods	Weather Compliant Conditions	Compliant (Yes/No)	Comments
N1	22-Sep-13	Inaudible	36	<b>38</b>	<b>46</b>	<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>L<sub>A1</sub> (1 min):</u> 45	Day – 1.5 hrs	Yes	<b>No</b>	Results are NM sources
	23-Sep-13	Inaudible	Inaudible	30	37		Evening – 0.5 hrs	Yes	Yes	Results are NM sources
	24-Sep-13	Inaudible	34	Inaudible	N/A		Night – 1 hr	Yes	Yes	Results are NM sources
N3	22-Sep-13	25	<30	<b>41</b>	<b>50</b>	<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>L<sub>A1</sub> (1 min):</u> 45	Day – 1.5 hrs	Yes	<b>No</b>	Results are NM sources
	23-Sep-13	32	31	35	39		Evening – 0.5 hrs	Yes	Yes	Results are NM sources
	24-Sep-13	35	24	Inaudible	N/A		Night – 1 hr	Yes	Yes	Results are NM sources

EPL ID	Date	Measured Levels – dB(A) L <sub>eq</sub> 15min Day	Measured Levels – dB(A) L <sub>eq</sub> 15min Evening	Measured Levels – dB(A) L <sub>eq</sub> 15min Night	Measured Levels – dB(A) L <sub>A1</sub> (1 min) Night	Limit(s)	Measurement Periods	Weather Compliant Conditions	Compliant (Yes/No)	Comments
N5	22-Sep-13	Inaudible	31	33	42	<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>L<sub>A1</sub> (1 min):</u> 45	Day – 1.5 hrs	Yes	Yes	Results are NM sources
	23-Sep-13	Barely audible	30	30	37		Evening – 0.5 hrs	Yes	Yes	Results are NM sources
	24-Sep-13	Inaudible	Inaudible	25	30		Night – 1 hr	Yes	Yes	Results are NM sources
N6	22-Sep-13	29	29	36	39	<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>L<sub>A1</sub> (1 min):</u> 45	Day – 1.5 hrs Evening – 0.5 hrs Night – 1 hr	Yes	Yes	Results are NM sources. Monitoring undertaken at mine boundary therefore levels at residence will be lower than reported. Monitoring only undertaken on 22 September as no access due to mine road closure.
	23-Sep-13	N/A	N/A	N/A	N/A			N/A	N/A	
	24-Sep-13	N/A	N/A	N/A	N/A			N/A	N/A	
N7	22-Sep-13	Inaudible	Inaudible	34	38	<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>L<sub>A1</sub> (1 min):</u> 45	Day – 1.5 hrs	Yes	Yes	Results are NM sources
	23-Sep-13	Inaudible	Inaudible	Inaudible	N/A		Evening – 0.5 hrs	Yes	Yes	Results are NM sources
	24-Sep-13	Inaudible	31	34	40		Night – 1 hr	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=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:** October 2013

**Publication Date:** 8<sup>th</sup> November 2013

**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	14-Oct-13	21-Oct-13	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<sub>eq</sub> 15min Day</small>	Measured Levels – dB(A) <small>L<sub>eq</sub> 15min Evening</small>	Measured Levels – dB(A) <small>L<sub>eq</sub> 15min Night</small>	Measured Levels – dB(A) <small>L<sub>A1</sub> (1 min) Night</small>	Limit(s)	Measurement Periods	Weather Compliant Conditions	Compliant (Yes/No)	Comments
N1	Not required					<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>L<sub>A1</sub> (1 min):</u> 45	Day – 1.5 hrs			
							Evening – 0.5 hrs			
							Night – 1 hr			
N3	Not required					<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>L<sub>A1</sub> (1 min):</u> 45	Day – 1.5 hrs			
							Evening – 0.5 hrs			
							Night – 1 hr			



EPL ID	Date	Measured Levels – dB(A) L <sub>eq</sub> 15min Day	Measured Levels – dB(A) L <sub>eq</sub> 15min Evening	Measured Levels – dB(A) L <sub>eq</sub> 15min Night	Measured Levels – dB(A) L <sub>A1</sub> (1 min) Night	Limit(s)	Measurement Periods	Weather Compliant Conditions	Compliant (Yes/No)	Comments
N5	Not required					<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>L<sub>A1</sub> (1 min):</u> 45	Day – 1.5 hrs			
							Evening – 0.5 hrs			
							Night – 1 hr			
N6	Not required					<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>L<sub>A1</sub> (1 min):</u> 45	Day – 1.5 hrs			
							Evening – 0.5 hrs			
							Night – 1 hr			
N7	Not required					<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>L<sub>A1</sub> (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:** November 2013

**Publication Date:** 4<sup>th</sup> December 2013

**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	13-Nov-13	22-Nov-13	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	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<sub>eq</sub> 15min Day</small>	Measured Levels – dB(A) <small>L<sub>eq</sub> 15min Evening</small>	Measured Levels – dB(A) <small>L<sub>eq</sub> 15min Night</small>	Measured Levels – dB(A) <small>L<sub>A1</sub> (1 min) Night</small>	Limit(s)	Measurement Periods	Weather Compliant Conditions	Compliant (Yes/No)	Comments
N1	Not required					<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>L<sub>A1</sub> (1 min):</u> 45	Day – 1.5 hrs			
							Evening – 0.5 hrs			
							Night – 1 hr			
N3	Not required					<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>L<sub>A1</sub> (1 min):</u> 45	Day – 1.5 hrs			
							Evening – 0.5 hrs			
							Night – 1 hr			





EPL ID	Date	Measured Levels – dB(A) L <sub>eq</sub> 15min Day	Measured Levels – dB(A) L <sub>eq</sub> 15min Evening	Measured Levels – dB(A) L <sub>eq</sub> 15min Night	Measured Levels – dB(A) L <sub>A1</sub> (1 min) Night	Limit(s)	Measurement Periods	Weather Compliant Conditions	Compliant (Yes/No)	Comments
N5	Not required					<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>L<sub>A1</sub> (1 min):</u> 45	Day – 1.5 hrs			
							Evening – 0.5 hrs			
							Night – 1 hr			
N6	Not required					<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>L<sub>A1</sub> (1 min):</u> 45	Day – 1.5 hrs			
							Evening – 0.5 hrs			
							Night – 1 hr			
N7	Not required					<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>L<sub>A1</sub> (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:** December 2013

**Publication Date:** 13<sup>th</sup> 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 <sup>2</sup> /month	Once a month (min. 4 weeks)	1	13-Dec-13	30-Dec-13	N/A	N/A	N/A	0.5
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<sub>eq</sub> 15min Day</small>	Measured Levels – dB(A) <small>L<sub>eq</sub> 15min Evening</small>	Measured Levels – dB(A) <small>L<sub>eq</sub> 15min Night</small>	Measured Levels – dB(A) <small>L<sub>A1</sub> (1 min) Night</small>	Limit(s)	Measurement Periods	Weather Compliant Conditions	Compliant (Yes/No)	Comments
N1	10-Dec-13	Inaudible	31	28	32	<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>L<sub>A1</sub> (1 min):</u> 45	Day – 1.5 hrs	No	Yes	Results are NM sources.
	11-Dec-13	28	34	35	44		Evening – 0.5 hrs	No	Yes	Results are NM sources.
	12-Dec-13	Inaudible	23	<b>36</b>	43		Night – 1 hr	No	Yes	Results are NM sources.
N3	10-Dec-13	30	23	22	25	<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>L<sub>A1</sub> (1 min):</u> 45	Day – 1.5 hrs	No	Yes	Results are NM sources.
	11-Dec-13	Inaudible	<b>36</b>	30	37		Evening – 0.5 hrs	No	Yes	Results are NM sources.
	12-Dec-13	Inaudible	34	37	<b>46</b>		Night – 1 hr	No	Yes	Results are NM sources.



EPL ID	Date	Measured Levels – dB(A) L <sub>eq</sub> 15min Day	Measured Levels – dB(A) L <sub>eq</sub> 15min Evening	Measured Levels – dB(A) L <sub>eq</sub> 15min Night	Measured Levels – dB(A) L <sub>A1</sub> (1 min) Night	Limit(s)	Measurement Periods	Weather Compliant Conditions	Compliant (Yes/No)	Comments
N5	10-Dec-13	25	Inaudible	Inaudible	Inaudible	<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>L<sub>A1</sub> (1 min):</u> 45	Day – 1.5 hrs	No	Yes	Results are NM sources.
	11-Dec-13	25	Barely Audible	Inaudible	Inaudible		Evening – 0.5 hrs	No	Yes	Results are NM sources.
	12-Dec-13	29	31	Inaudible	Inaudible		Night – 1 hr	No	Yes	Results are NM sources.
N6	10-Dec-13	Inaudible	30	30	33	<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>L<sub>A1</sub> (1 min):</u> 45	Day – 1.5 hrs	No	Yes	Results are NM sources. Monitoring undertaken at mine boundary therefore levels at residence will be lower than reported.
	11-Dec-13	32	29	32	36		Evening – 0.5 hrs	No	Yes	
	12-Dec-13	35	18	35	41		Night – 1 hr	No	Yes	
N7	10-Dec-13	Inaudible	Inaudible	32	41	<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>L<sub>A1</sub> (1 min):</u> 45	Day – 1.5 hrs	No	Yes	Results are NM sources.
	11-Dec-13	31	31	28	36		Evening – 0.5 hrs	No	Yes	Results are NM sources.
	12-Dec-13	24	Inaudible	35	41		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

