

NARRABRI MINE – MONTHLY MONITORING SUMMARY

Site Information

EPL No: 12789

EPA Website Link: <http://www.environment.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=31486&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 2012

Publication Date: 21st June 2012. Updated 9th July 2012 to exclude real time continuous monitoring data, as per EPA advice. Real time monitoring is used for ambient monitoring purposes rather than compliance monitoring.

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	18 April 2012	27 April 2012	N/A	N/A	N/A	2.0
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						
16	Conductivity	µs/cm	Quarterly – Upon discharge	0						
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						

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EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
	pH	pH		0						
	TSS	mg/L		0						
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						

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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		
	Oil & Grease	mg/L		0						10		
	pH	pH		0						6.5-8.5		
12	TSS	mg/L	Upon discharge	0						50		
	Oil & Grease	mg/L		0						10		
	pH	pH		0						6.5-8.5		
13	TSS	mg/L	Upon discharge	0						50		
	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 (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>	Evening – 0.5 hrs			

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



WHITEHAVEN COAL

NARRABRI MINE – MONTHLY MONITORING SUMMARY

Figure 1 – EPL 12789 Monitoring Locations





WHITEHAVEN COAL

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Site Information

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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: May 2012

Publication Date: 21st June 2012. Updated 9th July 2012 to exclude real time continuous monitoring data, as per EPA advice. Real time monitoring is used for ambient monitoring purposes rather than compliance monitoring.

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	Total Insoluble Matter	g/m ² /month	Once a month (min. 4 weeks)	1	17 May 2012	24 May 2012	N/A	N/A	N/A	1.5
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						
16	Conductivity	µs/cm	Quarterly – Upon discharge	0						
	TOC	mg/L		0						



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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
	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						



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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		SD4
	Oil & Grease	mg/L		0						10		
	pH	pH		0						6.5-8.5		
12	TSS	mg/L	Upon discharge	0						50		SD5
	Oil & Grease	mg/L		0						10		
	pH	pH		0						6.5-8.5		
13	TSS	mg/L	Upon discharge	0						50		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 (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>	Day – 1.5 hrs			
							Evening – 0.5 hrs			

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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 (Yes/No)	Comments
						<u>L_{A1} (1 min):</u> 45	Night – 1 hr			
N5	Not Required					<u>Day, Evening & Night:</u> 35	Day – 1.5 hrs			
						<u>Night</u>	Evening – 0.5 hrs			
						<u>L_{A1} (1 min):</u> 45	Night – 1 hr			
N6	Not Required					<u>Day, Evening & Night:</u> 35	Day – 1.5 hrs			
						<u>Night</u>	Evening – 0.5 hrs			
						<u>L_{A1} (1 min):</u> 45	Night – 1 hr			
N7	Not Required					<u>Day, Evening & Night:</u> 35	Day – 1.5 hrs			
						<u>Night</u>	Evening – 0.5 hrs			
						<u>L_{A1} (1 min):</u> 45	Night – 1 hr			
N8	Monitoring at N8 to commence when surface activities approach the eastern end of the southern longwall panels.									



WHITEHAVEN COAL

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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=31486&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 2012

Publication Date: 9th July 2012

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	18 June 2012	29 June 2012	N/A	N/A	N/A	2.0
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	1	4-Jun-12	14-Jun-12	N/A	N/A	N/A	1270
	TOC	mg/L		1	4-Jun-12	14-Jun-12	N/A	N/A	N/A	10
	Oil & Grease	mg/L		1	4-Jun-12	14-Jun-12	N/A	N/A	N/A	<5
	pH	pH		1	4-Jun-12	14-Jun-12	N/A	N/A	N/A	7.90
	TSS	mg/L		1	4-Jun-12	14-Jun-12	N/A	N/A	N/A	8
16	Conductivity	µs/cm	Quarterly –	1	4-Jun-12	14-Jun-12	N/A	N/A	N/A	82

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
	TOC	mg/L	Upon discharge	1	4-Jun-12	14-Jun-12	N/A	N/A	N/A	23
	Oil & Grease	mg/L		1	4-Jun-12	14-Jun-12	N/A	N/A	N/A	<5
	pH	pH		1	4-Jun-12	14-Jun-12	N/A	N/A	N/A	7.27
	TSS	mg/L		1	4-Jun-12	14-Jun-12	N/A	N/A	N/A	20
17	Conductivity	µs/cm	Quarterly – Upon discharge	1	4-Jun-12	14-Jun-12	N/A	N/A	N/A	136
	TOC	mg/L		1	4-Jun-12	14-Jun-12	N/A	N/A	N/A	17
	Oil & Grease	mg/L		1	4-Jun-12	14-Jun-12	N/A	N/A	N/A	<5
	pH	pH		1	4-Jun-12	14-Jun-12	N/A	N/A	N/A	6.72
	TSS	mg/L		1	4-Jun-12	14-Jun-12	N/A	N/A	N/A	108
18	Conductivity	µs/cm	Upon discharge	SD7 not yet constructed						
	TOC	mg/L								
19	Conductivity	µs/cm	Quarterly – Upon discharge	1	4-Jun-12	14-Jun-12	N/A	N/A	N/A	218
	TOC	mg/L		1	4-Jun-12	14-Jun-12	N/A	N/A	N/A	13
	Oil & Grease	mg/L		1	4-Jun-12	14-Jun-12	N/A	N/A	N/A	<5
	pH	pH		1	4-Jun-12	14-Jun-12	N/A	N/A	N/A	7.82
	TSS	mg/L		1	4-Jun-12	14-Jun-12	N/A	N/A	N/A	52
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	1	4-Jun-12	14-Jun-12	N/A	N/A	N/A	95
	TOC	mg/L		1	4-Jun-12	14-Jun-12	N/A	N/A	N/A	13
	Oil & Grease	mg/L		1	4-Jun-12	14-Jun-12	N/A	N/A	N/A	<5
	pH	pH		1	4-Jun-12	14-Jun-12	N/A	N/A	N/A	7.18
	TSS	mg/L		1	4-Jun-12	14-Jun-12	N/A	N/A	N/A	48
22	Conductivity	µs/cm	Quarterly – Upon discharge	1	4-Jun-12	14-Jun-12	N/A	N/A	N/A	97
	TOC	mg/L		1	4-Jun-12	14-Jun-12	N/A	N/A	N/A	16
	Oil & Grease	mg/L		1	4-Jun-12	14-Jun-12	N/A	N/A	N/A	<5
	pH	pH		1	4-Jun-12	14-Jun-12	N/A	N/A	N/A	7.51
	TSS	mg/L		1	4-Jun-12	14-Jun-12	N/A	N/A	N/A	96

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 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	20-Jun-12	31	35	33	37.6	<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
	21-Jun-12	Inaudible	31	31	37.5		Evening – 0.5 hrs	Yes	Yes	Results are NM sources
	22-Jun-12	32	29	35	43.2		Night – 1 hr	Yes	Yes	Results are NM sources
N3	20-Jun-12	30	33	40	43.8	<u>Day, Evening & Night:</u> 35 <u>Night</u> <u>L_{A1} (1 min):</u> 45	Day – 1.5 hrs	No – inversion	Yes	Results are NM sources
	21-Jun-12	Inaudible	33	<30	32.6		Evening – 0.5 hrs	Yes	Yes	Results are NM sources
	22-Jun-12	Inaudible	31	30	36.5		Night – 1 hr	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
N5	20-Jun-12	Inaudible	Inaudible	32	38.2	<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
	21-Jun-12	Inaudible	28	31	36.2		Evening – 0.5 hrs	Yes	Yes	Results are NM sources
	22-Jun-12	Inaudible	27	27	30.0		Night – 1 hr	Yes	Yes	Results are NM sources
N6	20-Jun-12	<20	26	32	42.1	<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
	21-Jun-12	Inaudible	Inaudible	Inaudible	n/a		Evening – 0.5 hrs	Yes	Yes	Results are NM sources
	22-Jun-12	Inaudible	33	29	37.4		Night – 1 hr	Yes	Yes	Results are NM sources
N7	20-Jun-12	Inaudible	21	<25	29.8	<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
	21-Jun-12	Inaudible	Inaudible	Inaudible	n/a		Evening – 0.5 hrs	Yes	Yes	Results are NM sources
	22-Jun-12	Inaudible	30	35	42.5		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



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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: July 2012

Publication Date: 2nd August 2012

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	18-Jul-2012	25-Jul-2012	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	1	12-Jul-2012	23-Jul-2012	N/A	N/A	N/A	98
	TOC	mg/L		1	12-Jul-2012	23-Jul-2012	N/A	N/A	N/A	16
13	Conductivity	µs/cm	Upon discharge	1	13-Jul-2012	23-Jul-2012	N/A	N/A	N/A	205
	TOC	mg/L		1	13-Jul-2012	23-Jul-2012	N/A	N/A	N/A	14
14	Conductivity	µs/cm	Quarterly – Upon discharge	1	13-Jul-2012	23-Jul-2012	N/A	N/A	N/A	221
	TOC	mg/L		1	13-Jul-2012	23-Jul-2012	N/A	N/A	N/A	21
	Oil & Grease	mg/L		1	13-Jul-2012	23-Jul-2012	N/A	N/A	N/A	<5
	pH	pH		1	13-Jul-2012	23-Jul-2012	N/A	N/A	N/A	7.52
	TSS	mg/L		1	13-Jul-2012	23-Jul-2012	N/A	N/A	N/A	133
15	Conductivity	µs/cm	Quarterly – Upon discharge	1	12-Jul-2012	23-Jul-2012	N/A	N/A	N/A	230
	TOC	mg/L		1	12-Jul-2012	23-Jul-2012	N/A	N/A	N/A	14
	Oil & Grease	mg/L		1	12-Jul-2012	23-Jul-2012	N/A	N/A	N/A	<5
	pH	pH		1	12-Jul-2012	23-Jul-2012	N/A	N/A	N/A	7.65
	TSS	mg/L		1	12-Jul-2012	23-Jul-2012	N/A	N/A	N/A	88



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	12-Jul-2012	23-Jul-2012	N/A	N/A	N/A	50
	TOC	mg/L		1	12-Jul-2012	23-Jul-2012	N/A	N/A	N/A	15
	Oil & Grease	mg/L		1	12-Jul-2012	23-Jul-2012	N/A	N/A	N/A	<5
	pH	pH		1	12-Jul-2012	23-Jul-2012	N/A	N/A	N/A	6.86
	TSS	mg/L		1	12-Jul-2012	23-Jul-2012	N/A	N/A	N/A	32
17	Conductivity	µs/cm	Quarterly – Upon discharge	1	12-Jul-2012	23-Jul-2012	N/A	N/A	N/A	85
	TOC	mg/L		1	12-Jul-2012	23-Jul-2012	N/A	N/A	N/A	20
	Oil & Grease	mg/L		1	12-Jul-2012	23-Jul-2012	N/A	N/A	N/A	<5
	pH	pH		1	12-Jul-2012	23-Jul-2012	N/A	N/A	N/A	7.12
	TSS	mg/L		1	12-Jul-2012	23-Jul-2012	N/A	N/A	N/A	108
18	Conductivity	µs/cm	Upon discharge	SD7 not yet constructed						
	TOC	mg/L								
19	Conductivity	µs/cm	Quarterly – Upon discharge	1	12-Jul-2012	23-Jul-2012	N/A	N/A	N/A	62
	TOC	mg/L		1	12-Jul-2012	23-Jul-2012	N/A	N/A	N/A	13
	Oil & Grease	mg/L		1	12-Jul-2012	23-Jul-2012	N/A	N/A	N/A	<5
	pH	pH		1	12-Jul-2012	23-Jul-2012	N/A	N/A	N/A	7.11
	TSS	mg/L		1	12-Jul-2012	23-Jul-2012	N/A	N/A	N/A	229
20	Conductivity	µs/cm	Quarterly – Upon discharge	0			N/A	N/A	N/A	
	TOC	mg/L		0			N/A	N/A	N/A	
	Oil & Grease	mg/L		0			N/A	N/A	N/A	
	pH	pH		0			N/A	N/A	N/A	
	TSS	mg/L		0			N/A	N/A	N/A	
21	Conductivity	µs/cm	Quarterly – Upon discharge	1	12-Jul-2012	23-Jul-2012	N/A	N/A	N/A	47
	TOC	mg/L		1	12-Jul-2012	23-Jul-2012	N/A	N/A	N/A	8
	Oil & Grease	mg/L		1	12-Jul-2012	23-Jul-2012	N/A	N/A	N/A	<5
	pH	pH		1	12-Jul-2012	23-Jul-2012	N/A	N/A	N/A	7.00
	TSS	mg/L		1	12-Jul-2012	23-Jul-2012	N/A	N/A	N/A	142
22	Conductivity	µs/cm	Quarterly – Upon discharge	1	12-Jul-2012	23-Jul-2012	N/A	N/A	N/A	71
	TOC	mg/L		1	12-Jul-2012	23-Jul-2012	N/A	N/A	N/A	10
	Oil & Grease	mg/L		1	12-Jul-2012	23-Jul-2012	N/A	N/A	N/A	<5
	pH	pH		1	12-Jul-2012	23-Jul-2012	N/A	N/A	N/A	7.43
	TSS	mg/L		1	12-Jul-2012	23-Jul-2012	N/A	N/A	N/A	53

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 or Only 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	12-Jul-2012	23-Jul-2012	N/A	N/A	122	50	No	Dam – SD5. TSS not exceeded as received >38.4mm of rain prior to discharge
	Oil & Grease	mg/L		1	12-Jul-2012	23-Jul-2012	N/A	N/A	<5	10	No	
	pH	pH		1	12-Jul-2012	23-Jul-2012	N/A	N/A	7.33	6.5-8.5	No	
13	TSS	mg/L	Upon discharge	1	13-Jul-2012	23-Jul-2012	N/A	N/A	20	50	No	Dam – SD2
	Oil & Grease	mg/L		1	13-Jul-2012	23-Jul-2012	N/A	N/A	<5	10	No	
	pH	pH		1	13-Jul-2012	23-Jul-2012	N/A	N/A	7.83	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) 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 (Yes/No)	Comments
N1	Not Required					<u>Day, Evening & Night:</u> 35 <u>Night</u> L_{A1} (1 min): 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 (Yes/No)	Comments
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			
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.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 2012

Publication Date: 5th September 2012

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	17 August 2012	27 August 2012	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_{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 (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 (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.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: September 2012

Publication Date: 18th October 2012

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	18/09/2012	2/10/2012	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_{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 (Yes/No)	Comments
N1	25-Sep-12	Inaudible	23	31	37	<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
	26-Sep-12	Inaudible	Inaudible	34	41		Evening – 0.5 hrs	Yes	Yes	Results are NM sources
	27-Sep-12	Inaudible	Inaudible	Inaudible	n/a		Night – 1 hr	Yes	Yes	Results are NM sources
N3	25-Sep-12	29	Inaudible	Inaudible	n/a	<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
	26-Sep-12	28	25	26	40		Evening – 0.5 hrs	Yes	Yes	Results are NM sources
	27-Sep-12	24	29	33	41		Night – 1 hr	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 (Yes/No)	Comments
N5	25-Sep-12	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	Yes	Yes	Results are NM sources
	26-Sep-12	Inaudible	33	29	36		Evening – 0.5 hrs	Yes	Yes	Results are NM sources
	27-Sep-12	33	28	33	41		Night – 1 hr	Yes	Yes	Results are NM sources
N6	25-Sep-12	24	28	28	29	<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
	26-Sep-12	27	29	31	35		Evening – 0.5 hrs	Yes	Yes	Results are NM sources
	27-Sep-12	Inaudible	Inaudible	25	30		Night – 1 hr	Yes	Yes	Results are NM sources
N7	25-Sep-12	Inaudible	29	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
	26-Sep-12	Inaudible	30	28	35		Evening – 0.5 hrs	Yes	Yes	Results are NM sources
	27-Sep-12	Inaudible	Inaudible	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: October 2012

Publication Date: 20th November 2011

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	18-Oct-12	26-Oct-12	N/A	N/A	N/A	0.7
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 (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 (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.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: November 2012

Publication Date: 3rd December 2012

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	19-Nov-12	27-Nov-12	N/A	N/A	N/A	0.4
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 (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 (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.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: December 2012

Publication Date: 17th January 2012

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	19-Dec-12	2-Jan-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_{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	18-Dec-12	22	33	28	38	<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
	19-Dec-12	Inaudible	32	Inaudible	n/a		Evening – 0.5 hrs	Yes	Yes	Results are NM sources
	20-Dec-12	Inaudible	29	25	35		Night – 1 hr	Yes	Yes	Results are NM sources
N3	18-Dec-12	Inaudible	32	27	35	<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
	19-Dec-12	Inaudible	20	Inaudible	n/a		Evening – 0.5 hrs	Yes	Yes	Results are NM sources
	20-Dec-12	Inaudible	35	36	43		Night – 1 hr	No – wind speed	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	18-Dec-12	Inaudible	15	Inaudible	n/a	<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
	19-Dec-12	Inaudible	28	31	38		Evening – 0.5 hrs	Yes	Yes	Results are NM sources
	20-Dec-12	Inaudible	32	35	48		Night – 1 hr	No – wind speed	Yes	Results are NM sources
N6	18-Dec-12	32	29	33	38	<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
	19-Dec-12	Inaudible	20	27	30		Evening – 0.5 hrs	Yes	Yes	Results are NM sources
	20-Dec-12	Inaudible	Inaudible	Inaudible	n/a		Night – 1 hr	Yes	Yes	Results are NM sources
N7	18-Dec-12	Inaudible	28	32	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
	19-Dec-12	Inaudible	Inaudible	Inaudible	n/a		Evening – 0.5 hrs	Yes	Yes	Results are NM sources
	20-Dec-12	Inaudible	Inaudible	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





NARRABRI MINE – MONTHLY MONITORING SUMMARY CORRECTION LOG

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

Sample Point/s	Sample Date	Original Data	Corrected Data	Date Corrected	Date Originally Published	Reason
						No corrections to date



WHITEHAVEN COAL

NARRABRI MINE – MONTHLY MONITORING SUMMARY

CORRECTION LOG

Figure 1 – EPL 12789 Monitoring Locations

