

NARRABRI MINE – MONTHLY MONITORING SUMMARY

Site Information

EPL No: 12789

EPA Website Link: <http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=40629&SYSUID=1&LICID=12789>

Licensee: Narrabri Coal Operations Pty Ltd

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

EPL Monitoring Points: See Figure 1 below

Sampling Period: January 2015

Publication Date: 3rd February 2015

Table 1 – No Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
ND3	Deposited Matter	g/m ² /month	Once a month (min. 4 weeks)	1	15-Jan-15	29-Jan-15	N/A	N/A	N/A	1.1
11	Conductivity	µs/cm	Upon discharge	0						
	TOC	mg/L		0						
12	Conductivity	µs/cm	Upon discharge	0						
	TOC	mg/L		0						
13	Conductivity	µs/cm	Upon discharge	0						
	TOC	mg/L		0						
14	Conductivity	µs/cm	Quarterly – Upon discharge	0						
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
15	Conductivity	µs/cm	Quarterly – Upon discharge	0						
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
16	Conductivity	µs/cm	Quarterly – Upon discharge	0						
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
17	Conductivity	µs/cm	Quarterly – Upon discharge	0						
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
18	Conductivity	µs/cm	Upon discharge	SD7 not yet constructed						
	TOC	mg/L								
19	Conductivity	µs/cm	Quarterly – Upon discharge	0						
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
20	Conductivity	µs/cm	Quarterly – Upon discharge	0						
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
21	Conductivity	µs/cm	Quarterly – Upon discharge	0						
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
22	Conductivity	µs/cm	Quarterly – Upon discharge	0						
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						

Table 2 - Pollutant Limits Apply (Water)

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

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

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

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

Figure 1 – EPL 12789 Monitoring Locations



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EPL No: 12789

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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: February 2015

Publication Date: 3rd March 2015

Table 1 – No Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
ND3	Deposited Matter	g/m ² /month	Once a month (min. 4 weeks)	1	13-Feb-15	24-Feb-15	N/A	N/A	N/A	<0.1
11	Conductivity	µs/cm	Upon discharge	0						
	TOC	mg/L		0						
12	Conductivity	µs/cm	Upon discharge	0						
	TOC	mg/L		0						
13	Conductivity	µs/cm	Upon discharge	0						
	TOC	mg/L		0						
14	Conductivity	µs/cm	Quarterly – Upon discharge	0						
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
15	Conductivity	µs/cm	Quarterly – Upon discharge	0						
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
16	Conductivity	µs/cm	Quarterly – Upon discharge	0						
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
17	Conductivity	µs/cm	Quarterly – Upon discharge	0						
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
18	Conductivity	µs/cm	Upon discharge	SD7 not yet constructed						
	TOC	mg/L								
19	Conductivity	µs/cm	Quarterly – Upon discharge	0						
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
20	Conductivity	µs/cm	Quarterly – Upon discharge	0						
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
21	Conductivity	µs/cm	Quarterly – Upon discharge	0						
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
22	Conductivity	µs/cm	Quarterly – Upon discharge	0						
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						

Table 2 - Pollutant Limits Apply (Water)

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

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

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

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

Figure 1 – EPL 12789 Monitoring Locations



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EPL No: 12789

EPA Website Link: <http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=40629&SYSUID=1&LICID=12789>

Licensee: Narrabri Coal Operations Pty Ltd

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

EPL Monitoring Points: See Figure 1 below

Sampling Period: March 2015

Publication Date: 10th April 2015

Table 1 – No Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
ND3	Deposited Matter	g/m ² /month	Once a month (min. 4 weeks)	1	16-Mar-15	24-Mar-15	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						

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
	TSS	mg/L		0						
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						

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

Table 2 - Pollutant Limits Apply (Water)

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

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

EPL ID	Date	Measured Levels – dB(A) L _{eq} 15min Day	Measured Levels – dB(A) L _{eq} 15min Evening	Measured Levels – dB(A) L _{eq} 15min Night	Measured Levels – dB(A) L _{A1} (1 min) Night	Limit(s)	Measurement Periods	Weather Compliant Conditions	Compliant (Yes/No)	Comments
N1	17-Mar-15	27	25	28	35	Day, Evening & Night: 35 Night L _{A1} (1 min): 45	Day – 1.5 hrs	No	Yes	Results are NM sources
	18-Mar-15	Inaudible	29	33	37		Evening – 0.5 hrs	No	Yes	Results are NM sources
	19-Mar-15	26	35	35	39		Night – 1 hr	No	Yes	Results are NM sources

EPL ID	Date	Measured Levels – dB(A) L _{eq} 15min Day	Measured Levels – dB(A) L _{eq} 15min Evening	Measured Levels – dB(A) L _{eq} 15min Night	Measured Levels – dB(A) L _{A1} (1 min) Night	Limit(s)	Measurement Periods	Weather Compliant Conditions	Compliant (Yes/No)	Comments
N5	17-Mar-15	25	27	23	28	<u>Day, Evening & Night:</u> 35 <u>Night</u> <u>L_{A1} (1 min):</u> 45	Day – 1.5 hrs	No	Yes	Results are NM sources
	18-Mar-15	33	Faintly Audible	27	31		Evening – 0.5 hrs	No	Yes	Results are NM sources
	19-Mar-15	24	25	25	28		Night – 1 hr	No	Yes	Results are NM sources
N6	17-Mar-15	<20	<20	<20	23	<u>Day, Evening & Night:</u> 35 <u>Night</u> <u>L_{A1} (1 min):</u> 45	Day – 1.5 hrs	No	Yes	Results are NM sources. Monitoring undertaken at mine boundary so levels calculated for residence
	18-Mar-15	<20	23	22	24		Evening – 0.5 hrs	No	Yes	
	19-Mar-15	<20	23	22	24		Night – 1 hr	No	Yes	
N7	17-Mar-15	Inaudible	Inaudible	Inaudible	NA	<u>Day, Evening & Night:</u> 35 <u>Night</u> <u>L_{A1} (1 min):</u> 45	Day – 1.5 hrs	No	Yes	Results are NM sources
	18-Mar-15	Inaudible	Inaudible	Inaudible	NA		Evening – 0.5 hrs	No	Yes	Results are NM sources
	19-Mar-15	34	Inaudible	32	37		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



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Site Information

EPL No: 12789

EPA Website Link: <http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=40629&SYSUID=1&LICID=12789>

Licensee: Narrabri Coal Operations Pty Ltd

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

EPL Monitoring Points: See Figure 1 below

Sampling Period: April 2015

Publication Date: 6th May 2015

Table 1 – No Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
ND3	Deposited Matter	g/m ² /month	Once a month (min. 4 weeks)	1	15-Apr-15	24-Apr-15	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	1	7-Apr-15	13-Apr-15	N/A	N/A	N/A	96
	TOC	mg/L		1	7-Apr-15	13-Apr-15	N/A	N/A	N/A	8
	Oil & Grease	mg/L		1	7-Apr-15	13-Apr-15	N/A	N/A	N/A	<5
	pH	pH		1	7-Apr-15	13-Apr-15	N/A	N/A	N/A	7.1
	TSS	mg/L		1	7-Apr-15	13-Apr-15	N/A	N/A	N/A	100
15	Conductivity	µs/cm	Quarterly – Upon discharge	3	4, 7, 21-Apr-15	28-Apr-15	143	153	155	160
	TOC	mg/L		3	4, 7, 21-Apr-15	28-Apr-15	11	12	11	13
	Oil & Grease	mg/L		3	4, 7, 21-Apr-	28-Apr-15	<5	5	5	<5

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
					15					
	pH	pH		3	4, 7, 21-Apr-15	28-Apr-15	7.49	7.57	7.57	7.66
	TSS	mg/L		3	4, 7, 21-Apr-15	28-Apr-15	26	39	45	45
16	Conductivity	µs/cm	Quarterly – Upon discharge	3	4, 7, 21-Apr-15	28-Apr-15	34	57	58	78
	TOC	mg/L		3	4, 7, 21-Apr-15	28-Apr-15	8	8	8	8
	Oil & Grease	mg/L		3	4, 7, 21-Apr-15	28-Apr-15	<5	5	5	<5
	pH	pH		3	4, 7, 21-Apr-15	28-Apr-15	6.86	7.2	7.32	7.42
	TSS	mg/L		3	4, 7, 21-Apr-15	28-Apr-15	16	23	26	27
17	Conductivity	µs/cm	Quarterly – Upon discharge	2	7, 21-Apr-15	28-Apr-15	84	113	113	142
	TOC	mg/L		2	7, 21-Apr-15	28-Apr-15	24	25	25	25
	Oil & Grease	mg/L		2	7, 21-Apr-15	28-Apr-15	<5	5	5	<5
	pH	pH		2	7, 21-Apr-15	28-Apr-15	6.74	6.92	6.92	7.09
	TSS	mg/L		2	7, 21-Apr-15	28-Apr-15	12	22	22	32
18	Conductivity	µs/cm	Upon discharge	SD7 not yet constructed						
	TOC	mg/L								
19	Conductivity	µs/cm	Quarterly – Upon discharge	3	4, 7, 21-Apr-15	28-Apr-15	123	272	262	430
	TOC	mg/L		3	4, 7, 21-Apr-15	28-Apr-15	5	6	6	7
	Oil & Grease	mg/L		3	4, 7, 21-Apr-15	28-Apr-15	<5	5	5	<5
	pH	pH		3	4, 7, 21-Apr-15	28-Apr-15	7.32	7.45	7.38	7.66
	TSS	mg/L		3	4, 7, 21-Apr-15	28-Apr-15	66	378	298	769
20	Conductivity	µs/cm	Quarterly – Upon	3	4, 7, 21-Apr-15	28-Apr-15	115	200	194	291

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	discharge	3	4, 7, 21-Apr-15	28-Apr-15	7	8	8	8
	Oil & Grease	mg/L		3	4, 7, 21-Apr-15	28-Apr-15	<5	5	5	<5
	pH	pH		3	4, 7, 21-Apr-15	28-Apr-15	7.31	7.49	7.55	7.61
	TSS	mg/L		3	4, 7, 21-Apr-15	28-Apr-15	20	133	67	312
21	Conductivity	µs/cm	Quarterly – Upon discharge	3	4, 7, 21-Apr-15	28-Apr-15	29	48	53	63
	TOC	mg/L		3	4, 7, 21-Apr-15	28-Apr-15	3	5	6	7
	Oil & Grease	mg/L		3	4, 7, 21-Apr-15	28-Apr-15	<5	5	5	<5
	pH	pH		3	4, 7, 21-Apr-15	28-Apr-15	6.9	6.97	6.95	7.05
	TSS	mg/L		3	4, 7, 21-Apr-15	28-Apr-15	184	280	301	356
22	Conductivity	µs/cm	Quarterly – Upon discharge	3	4, 7, 21-Apr-15	28-Apr-15	32	93	120	127
	TOC	mg/L		3	4, 7, 21-Apr-15	28-Apr-15	5	7	8	8
	Oil & Grease	mg/L		3	4, 7, 21-Apr-15	28-Apr-15	<5	5	5	<5
	pH	pH		3	4, 7, 21-Apr-15	28-Apr-15	5.82	7.01	7.54	7.68
	TSS	mg/L		3	4, 7, 21-Apr-15	28-Apr-15	28	32	32	37

Table 2 - Pollutant Limits Apply (Water)

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

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

EPL ID	Date	Measured Levels – dB(A) $L_{eq\ 15min\ Day}$	Measured Levels – dB(A) $L_{eq\ 15min\ Evening}$	Measured Levels – dB(A) $L_{eq\ 15min\ Night}$	Measured Levels – dB(A) $L_{A1\ (1\ min)\ Night}$	Limit(s)	Measurement Periods	Weather Compliant Conditions	Compliant (Yes/No)	Comments
N1	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			
N3	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 Conditions	Compliant (Yes/No)	Comments
N5	Not required					<u>Day, Evening & Night:</u> 35 <u>Night</u> <u>L_{A1} (1 min):</u> 45	Day – 1.5 hrs			
							Evening – 0.5 hrs			
							Night – 1 hr			
N6	Not required					<u>Day, Evening & Night:</u> 35 <u>Night</u> <u>L_{A1} (1 min):</u> 45	Day – 1.5 hrs			
							Evening – 0.5 hrs			
							Night – 1 hr			
N7	Not required					<u>Day, Evening & Night:</u> 35 <u>Night</u> <u>L_{A1} (1 min):</u> 45	Day – 1.5 hrs			
							Evening – 0.5 hrs			
							Night – 1 hr			
N8	Monitoring at N8 to commence when surface activities approach the eastern end of the southern longwall panels.									

Figure 1 – EPL 12789 Monitoring Locations



NARRABRI MINE – MONTHLY MONITORING SUMMARY

Site Information

EPL No: 12789

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

Licensee: Narrabri Coal Operations Pty Ltd

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

EPL Monitoring Points: See Figure 1 below

Sampling Period: May 2015

Publication Date: 1 June 2015

Table 1 – No Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
ND3	Deposited Matter	g/m ² /month	Once a month (min. 4 weeks)	1	15-May-15	26-May-15	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						
16	Conductivity	µs/cm	Quarterly –	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
	TOC	mg/L	Upon discharge	0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
17	Conductivity	µs/cm	Quarterly – Upon discharge	0						
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
18	Conductivity	µs/cm	Upon discharge	SD7 not yet constructed						
	TOC	mg/L								
19	Conductivity	µs/cm	Quarterly – Upon discharge	0						
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
20	Conductivity	µs/cm	Quarterly – Upon discharge	0						
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
21	Conductivity	µs/cm	Quarterly – Upon discharge	0						
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
22	Conductivity	µs/cm	Quarterly – Upon discharge	0						
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						

Table 2 - Pollutant Limits Apply (Water)

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

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

EPL ID	Date	Measured Levels – dB(A) L_{eq} 15min Day	Measured Levels – dB(A) L_{eq} 15min Evening	Measured Levels – dB(A) L_{eq} 15min Night	Measured Levels – dB(A) L_{A1} (1 min) Night	Limit(s)	Measurement Periods	Weather Compliant Conditions	Compliant (Yes/No)	Comments
N1	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			

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
						L_{A1} (1 min): 45	Night – 1 hr			
N5	Not required					Day, Evening & Night: 35	Day – 1.5 hrs			
						Night L_{A1} (1 min): 45	Evening – 0.5 hrs			
							Night – 1 hr			
N6	Not required					Day, Evening & Night: 35	Day – 1.5 hrs			
						Night L_{A1} (1 min): 45	Evening – 0.5 hrs			
							Night – 1 hr			
N7	Not required					Day, Evening & Night: 35	Day – 1.5 hrs			
						Night L_{A1} (1 min): 45	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=51648&SYSUID=1&LICID=12789>

Licensee: Narrabri Coal Operations Pty Ltd

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

EPL Monitoring Points: See Figure 1 below

Sampling Period: June 2015

Publication Date: 7th July 2015

Table 1 – No Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
ND3	Deposited Matter	g/m ² /month	Once a month (min. 4 weeks)	1	15-Jun-15	22-Jun-15	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	1	17-Jun-15	26-Jun-15	N/A	N/A	N/A	194
	TOC	mg/L		1	17-Jun-15	26-Jun-15	N/A	N/A	N/A	18
	Oil & Grease	mg/L		1	17-Jun-15	26-Jun-15	N/A	N/A	N/A	<5
	pH	pH		1	17-Jun-15	26-Jun-15	N/A	N/A	N/A	7.69
	TSS	mg/L		1	17-Jun-15	26-Jun-15	N/A	N/A	N/A	20
16	Conductivity	µs/cm		1	17-Jun-15	26-Jun-15	N/A	N/A	N/A	48

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	Quarterly – Upon discharge	1	17-Jun-15	26-Jun-15	N/A	N/A	N/A	11
	Oil & Grease	mg/L		1	17-Jun-15	26-Jun-15	N/A	N/A	N/A	<5
	pH	pH		1	17-Jun-15	26-Jun-15	N/A	N/A	N/A	7.12
	TSS	mg/L		1	17-Jun-15	26-Jun-15	N/A	N/A	N/A	8
17	Conductivity	µs/cm	Quarterly – Upon discharge	1	17-Jun-15	26-Jun-15	N/A	N/A	N/A	68
	TOC	mg/L		1	17-Jun-15	26-Jun-15	N/A	N/A	N/A	17
	Oil & Grease	mg/L		1	17-Jun-15	26-Jun-15	N/A	N/A	N/A	<5
	pH	pH		1	17-Jun-15	26-Jun-15	N/A	N/A	N/A	6.89
	TSS	mg/L		1	17-Jun-15	26-Jun-15	N/A	N/A	N/A	22
18	Conductivity	µs/cm	Upon discharge	SD7 not yet constructed						
	TOC	mg/L								
19	Conductivity	µs/cm	Quarterly – Upon discharge	1	17-Jun-15	26-Jun-15	N/A	N/A	N/A	72
	TOC	mg/L		1	17-Jun-15	26-Jun-15	N/A	N/A	N/A	11
	Oil & Grease	mg/L		1	17-Jun-15	26-Jun-15	N/A	N/A	N/A	<5
	pH	pH		1	17-Jun-15	26-Jun-15	N/A	N/A	N/A	7.19
	TSS	mg/L		1	17-Jun-15	26-Jun-15	N/A	N/A	N/A	337
20	Conductivity	µs/cm	Quarterly – Upon discharge	1	17-Jun-15	26-Jun-15	N/A	N/A	N/A	432
	TOC	mg/L		1	17-Jun-15	26-Jun-15	N/A	N/A	N/A	7
	Oil & Grease	mg/L		1	17-Jun-15	26-Jun-15	N/A	N/A	N/A	<5
	pH	pH		1	17-Jun-15	26-Jun-15	N/A	N/A	N/A	7.84
	TSS	mg/L		1	17-Jun-15	26-Jun-15	N/A	N/A	N/A	32
21	Conductivity	µs/cm	Quarterly – Upon discharge	1	17-Jun-15	26-Jun-15	N/A	N/A	N/A	34
	TOC	mg/L		1	17-Jun-15	26-Jun-15	N/A	N/A	N/A	5
	Oil & Grease	mg/L		1	17-Jun-15	26-Jun-15	N/A	N/A	N/A	<5
	pH	pH		1	17-Jun-15	26-Jun-15	N/A	N/A	N/A	6.76
	TSS	mg/L		1	17-Jun-15	26-Jun-15	N/A	N/A	N/A	284
22	Conductivity	µs/cm	Quarterly – Upon discharge	1	17-Jun-15	26-Jun-15	N/A	N/A	N/A	122
	TOC	mg/L		1	17-Jun-15	26-Jun-15	N/A	N/A	N/A	7
	Oil & Grease	mg/L		1	17-Jun-15	26-Jun-15	N/A	N/A	N/A	<5
	pH	pH		1	17-Jun-15	26-Jun-15	N/A	N/A	N/A	7.86
	TSS	mg/L		1	17-Jun-15	26-Jun-15	N/A	N/A	N/A	68

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) Leq 15min Day	Measured Levels – dB(A) Leq 15min Evening	Measured Levels – dB(A) Leq 15min Night	Measured Levels – dB(A) LA1 (1 min) Night	Limit(s)	Measurement Periods	Weather Compliant Conditions	Compliant (Yes/No)	Comments
N5	23-Jun-15	27	30	35	40	Day, Evening & Night: 35 Night LA1 (1 min): 45	Day – 1.5 hrs	No	Yes	Results are NM sources
	24-Jun-15	40	24	28	32		Evening – 0.5 hrs	No	No	Results are NM sources
	25-Jun-15	22	<20	<20	21		Night – 1 hr	No	Yes	Results are NM sources



EPL ID	Date	Measured Levels – dB(A) Leq 15min Day	Measured Levels – dB(A) Leq 15min Evening	Measured Levels – dB(A) Leq 15min Night	Measured Levels – dB(A) LA1 (1 min) Night	Limit(s)	Measurement Periods	Weather Compliant Conditions	Compliant (Yes/No)	Comments
N6	23-Jun-15	28	34	33	38	<u>Day, Evening & Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs	No	Yes	Results are NM sources. Monitoring undertaken at mine boundary so levels calculated for residence
	24-Jun-15	29	23	30	35		Evening – 0.5 hrs	No	Yes	
	25-Jun-15	27	28	32	38		Night – 1 hr	No	Yes	
N7	23-Jun-15	23	<20	31	36	<u>Day, Evening & Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs	Yes	Yes	Results are NM sources
	24-Jun-15	24	38	22	26		Evening – 0.5 hrs	No	No	Results are NM sources
	25-Jun-15	22	37	40	44		Night – 1 hr	No	No	Results are NM sources. Evening reading measured under non-compliant weather conditions
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=51648&SYSUID=1&LICID=12789>

Licensee: Narrabri Coal Operations Pty Ltd

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

EPL Monitoring Points: See Figure 1 below

Sampling Period: July 2015

Publication Date: 5th August 2015

Table 1 – No Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
ND3	Deposited Matter	g/m ² /month	Once a month (min. 4 weeks)	1	15-Jul-15	22-Jul-15	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						
16	Conductivity	µs/cm		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
	TOC	mg/L	Quarterly – Upon discharge	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) Leq 15min Day	Measured Levels – dB(A) Leq 15min Evening	Measured Levels – dB(A) Leq 15min Night	Measured Levels – dB(A) LA1 (1 min) Night	Limit(s)	Measurement Periods	Weather Compliant Conditions	Compliant (Yes/No)	Comments
N5	Not required					<u>Day, Evening & Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs			Results are NM sources
							Evening – 0.5 hrs			Results are NM sources
							Night – 1 hr			Results are NM sources



EPL ID	Date	Measured Levels – dB(A) Leq 15min Day	Measured Levels – dB(A) Leq 15min Evening	Measured Levels – dB(A) Leq 15min Night	Measured Levels – dB(A) LA1 (1 min) Night	Limit(s)	Measurement Periods	Weather Compliant Conditions	Compliant (Yes/No)	Comments
N6	Not required					<u>Day, Evening & Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs			Results are NM sources
							Evening – 0.5 hrs			Results are NM sources
							Night – 1 hr			Results are NM sources
N7	Not required					<u>Day, Evening & Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs			Results are NM sources
							Evening – 0.5 hrs			Results are NM sources
							Night – 1 hr			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=51648&SYSUID=1&LICID=12789>

Licensee: Narrabri Coal Operations Pty Ltd

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

EPL Monitoring Points: See Figure 1 below

Sampling Period: August 2015

Publication Date: 2nd September 2015

Table 1 – No Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
ND3	Deposited Matter	g/m ² /month	Once a month (min. 4 weeks)	1	14-Aug-15	20-Aug-15	N/A	N/A	N/A	0.2
11	Conductivity	µs/cm	Upon discharge	0						
	TOC	mg/L		0						
12	Conductivity	µs/cm	Upon discharge	0						
	TOC	mg/L		0						
13	Conductivity	µs/cm	Upon discharge	0						
	TOC	mg/L		0						
14	Conductivity	µs/cm	Quarterly – Upon discharge	2	24, 25-Aug-15	1-Sep-15	136	143	143	149
	TOC	mg/L		2	24, 25-Aug-15	1-Sep-15	9	10	10	11
	Oil & Grease	mg/L		2	24, 25-Aug-15	1-Sep-15	<5	8	8	11
	pH	pH		2	24, 25-Aug-15	1-Sep-15	7.05	7.17	7.17	7.28
	TSS	mg/L		2	24, 25-Aug-15	1-Sep-15	33	111	111	188
15	Conductivity	µs/cm		2	24, 25-Aug-15	1-Sep-15	140	187	187	233



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	Quarterly – Upon discharge	2	24, 25-Aug-15	1-Sep-15	11	13	13	14
	Oil & Grease	mg/L		2	24, 25-Aug-15	1-Sep-15	13	17	17	21
	pH	pH		2	24, 25-Aug-15	1-Sep-15	6.93	7.21	7.21	7.48
	TSS	mg/L		2	24, 25-Aug-15	1-Sep-15	29	46	46	63
16	Conductivity	µs/cm	Quarterly – Upon discharge	2	24, 25-Aug-15	1-Sep-15	73	87	87	100
	TOC	mg/L		2	24, 25-Aug-15	1-Sep-15	12	15	15	18
	Oil & Grease	mg/L		2	24, 25-Aug-15	1-Sep-15	8	10	10	11
	pH	pH		2	24, 25-Aug-15	1-Sep-15	7.01	7.11	7.11	7.21
	TSS	mg/L		2	24, 25-Aug-15	1-Sep-15	14	19	19	24
17	Conductivity	µs/cm	Quarterly – Upon discharge	2	24, 25-Aug-15	1-Sep-15	66	72	72	77
	TOC	mg/L		2	24, 25-Aug-15	1-Sep-15	16	18	18	20
	Oil & Grease	mg/L		2	24, 25-Aug-15	1-Sep-15	5	8	8	10
	pH	pH		2	24, 25-Aug-15	1-Sep-15	6.63	6.79	6.79	6.95
	TSS	mg/L		2	24, 25-Aug-15	1-Sep-15	13	21	21	29
18	Conductivity	µs/cm	Upon discharge	SD7 not yet constructed						
	TOC	mg/L								
19	Conductivity	µs/cm	Quarterly – Upon discharge	2	24, 25-Aug-15	1-Sep-15	177	395	395	612
	TOC	mg/L		2	24, 25-Aug-15	1-Sep-15	10	13	13	15

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		2	24, 25-Aug-15	1-Sep-15	<5	8	8	11
	pH	pH		2	24, 25-Aug-15	1-Sep-15	7.1	7.35	7.35	7.6
	TSS	mg/L		2	24, 25-Aug-15	1-Sep-15	23	108	108	192
20	Conductivity	µs/cm	Quarterly – Upon discharge	2	24, 25-Aug-15	1-Sep-15	140	224	224	308
	TOC	mg/L		2	24, 25-Aug-15	1-Sep-15	12	14	14	15
	Oil & Grease	mg/L		2	24, 25-Aug-15	1-Sep-15	5	7	7	9
	pH	pH		2	24, 25-Aug-15	1-Sep-15	7.1	7.18	7.18	7.26
	TSS	mg/L		2	24, 25-Aug-15	1-Sep-15	18	106	106	194
21	Conductivity	µs/cm	Quarterly – Upon discharge	2	24, 25-Aug-15	1-Sep-15	131	142	142	153
	TOC	mg/L		2	24, 25-Aug-15	1-Sep-15	13	15	15	16
	Oil & Grease	mg/L		2	24, 25-Aug-15	1-Sep-15	<5	8	8	11
	pH	pH		2	24, 25-Aug-15	1-Sep-15	7.1	7.18	7.18	7.25
	TSS	mg/L		2	24, 25-Aug-15	1-Sep-15	32	51	51	70
22	Conductivity	µs/cm	Quarterly – Upon discharge	2	24, 25-Aug-15	1-Sep-15	101	143	143	185
	TOC	mg/L		2	24, 25-Aug-15	1-Sep-15	10	13	13	15
	Oil & Grease	mg/L		2	24, 25-Aug-15	1-Sep-15	<5	10	10	14
	pH	pH		2	24, 25-Aug-15	1-Sep-15	7.22	7.24	7.24	7.25

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
	TSS	mg/L		2	24, 25-Aug-15	1-Sep-15	10	13	13	15

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) Leq 15min Day	Measured Levels – dB(A) Leq 15min Evening	Measured Levels – dB(A) Leq 15min Night	Measured Levels – dB(A) LA1 (1 min) Night	Limit(s)	Measurement Periods	Weather Compliant Conditions	Compliant (Yes/No)	Comments
N5	Not required					Day, Evening & Night:	Day – 1.5 hrs			Results are NM sources



EPL ID	Date	Measured Levels – dB(A) Leq 15min Day	Measured Levels – dB(A) Leq 15min Evening	Measured Levels – dB(A) Leq 15min Night	Measured Levels – dB(A) LA1 (1 min) Night	Limit(s)	Measurement Periods	Weather Compliant Conditions	Compliant (Yes/No)	Comments
						35 <u>Night</u>	Evening – 0.5 hrs			Results are NM sources
						<u>LA1 (1 min):</u> 45	Night – 1 hr			Results are NM sources
N6	Not required					<u>Day, Evening & Night:</u>	Day – 1.5 hrs			Results are NM sources
						35 <u>Night</u>	Evening – 0.5 hrs			Results are NM sources
						<u>LA1 (1 min):</u> 45	Night – 1 hr			Results are NM sources
N7	Not required					<u>Day, Evening & Night:</u>	Day – 1.5 hrs			Results are NM sources
						35 <u>Night</u>	Evening – 0.5 hrs			Results are NM sources
						<u>LA1 (1 min):</u> 45	Night – 1 hr			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=51648&SYSUID=1&LICID=12789>

Licensee: Narrabri Coal Operations Pty Ltd

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

EPL Monitoring Points: See Figure 1 below

Sampling Period: September 2015

Publication Date: 1st October 2015

Table 1 – No Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
ND3	Deposited Matter	g/m ² /month	Once a month (min. 4 weeks)	1	15-Sep-15	22-Sep-15	N/A	N/A	N/A	0.9
11	Conductivity	µs/cm	Upon discharge	0						
	TOC	mg/L		0						
12	Conductivity	µs/cm	Upon discharge	0						
	TOC	mg/L		0						
13	Conductivity	µs/cm	Upon discharge	0						
	TOC	mg/L		0						
14	Conductivity	µs/cm	Quarterly – 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						

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

Table 2 - Pollutant Limits Apply (Water)

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

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

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

Figure 1 – EPL 12789 Monitoring Locations



NARRABRI MINE – MONTHLY MONITORING SUMMARY

Site Information

EPL No: 12789

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

Licensee: Narrabri Coal Operations Pty Ltd

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

EPL Monitoring Points: See Figure 1 below

Sampling Period: October 2015

Publication Date: 11th November 2015

Table 1 – No Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
ND3	Deposited Matter	g/m ² /month	Once a month (min. 4 weeks)	1	15-Oct-15	22-Oct-15	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						

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

Table 2 - Pollutant Limits Apply (Water)

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

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

EPL ID	Date	Measured Levels – dB(A) Leq 15min Day	Measured Levels – dB(A) Leq 15min Evening	Measured Levels – dB(A) Leq 15min Night	Measured Levels – dB(A) LA1 (1 min) Night	Limit(s)	Measurement Periods	Weather Compliant Conditions	Compliant (Yes/No)	Comments
N5	Not Required					<u>Day, Evening & Night:</u> 35 <u>Night</u> <u>LA1 (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>LA1 (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>LA1 (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=51648&SYSUID=1&LICID=12789>

Licensee: Narrabri Coal Operations Pty Ltd

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

EPL Monitoring Points: See Figure 1 below

Sampling Period: November 2015

Publication Date: 4th December 2015

Table 1 – No Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
ND3	Deposited Matter	g/m ² /month	Once a month (min. 4 weeks)	1	13-Nov-15	23-Nov-15	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	1	5-Nov-15	12-Nov-15	N/A	N/A	N/A	121
	TOC	mg/L		1	5-Nov-15	12-Nov-15	N/A	N/A	N/A	14
	Oil & Grease	mg/L		1	5-Nov-15	12-Nov-15	N/A	N/A	N/A	6
	pH	pH		1	5-Nov-15	12-Nov-15	N/A	N/A	N/A	7.32
	TSS	mg/L		1	5-Nov-15	12-Nov-15	N/A	N/A	N/A	80
16	Conductivity	µs/cm		1	5-Nov-15	12-Nov-15	N/A	N/A	N/A	47

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	Quarterly – Upon discharge	1	5-Nov-15	12-Nov-15	N/A	N/A	N/A	12
	Oil & Grease	mg/L		1	5-Nov-15	12-Nov-15	N/A	N/A	N/A	6
	pH	pH		1	5-Nov-15	12-Nov-15	N/A	N/A	N/A	6.77
	TSS	mg/L		1	5-Nov-15	12-Nov-15	N/A	N/A	N/A	16
17	Conductivity	µs/cm	Quarterly – Upon discharge	1	5-Nov-15	12-Nov-15	N/A	N/A	N/A	64
	TOC	mg/L		1	5-Nov-15	12-Nov-15	N/A	N/A	N/A	21
	Oil & Grease	mg/L		1	5-Nov-15	12-Nov-15	N/A	N/A	N/A	-
	pH	pH		1	5-Nov-15	12-Nov-15	N/A	N/A	N/A	6.82
	TSS	mg/L		1	5-Nov-15	12-Nov-15	N/A	N/A	N/A	48
18	Conductivity	µs/cm	Upon discharge	SD7 not yet constructed						
	TOC	mg/L								
19	Conductivity	µs/cm	Quarterly – Upon discharge	1	5-Nov-15	12-Nov-15	N/A	N/A	N/A	702
	TOC	mg/L		1	5-Nov-15	12-Nov-15	N/A	N/A	N/A	10
	Oil & Grease	mg/L		1	5-Nov-15	12-Nov-15	N/A	N/A	N/A	<5
	pH	pH		1	5-Nov-15	12-Nov-15	N/A	N/A	N/A	7.11
	TSS	mg/L		1	5-Nov-15	12-Nov-15	N/A	N/A	N/A	665
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	5-Nov-15	12-Nov-15	N/A	N/A	N/A	91
	TOC	mg/L		1	5-Nov-15	12-Nov-15	N/A	N/A	N/A	16
	Oil & Grease	mg/L		1	5-Nov-15	12-Nov-15	N/A	N/A	N/A	11
	pH	pH		1	5-Nov-15	12-Nov-15	N/A	N/A	N/A	7.08
	TSS	mg/L		1	5-Nov-15	12-Nov-15	N/A	N/A	N/A	90
22	Conductivity	µs/cm	Quarterly – Upon discharge	1	5-Nov-15	12-Nov-15	N/A	N/A	N/A	168
	TOC	mg/L		1	5-Nov-15	12-Nov-15	N/A	N/A	N/A	13
	Oil & Grease	mg/L		1	5-Nov-15	12-Nov-15	N/A	N/A	N/A	<5
	pH	pH		1	5-Nov-15	12-Nov-15	N/A	N/A	N/A	7.57
	TSS	mg/L		1	5-Nov-15	12-Nov-15	N/A	N/A	N/A	191

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) Leq 15min Day	Measured Levels – dB(A) Leq 15min Evening	Measured Levels – dB(A) Leq 15min Night	Measured Levels – dB(A) LA1 (1 min) Night	Limit(s)	Measurement Periods	Weather Compliant Conditions	Compliant (Yes/No)	Comments
N5	Not Required					<u>Day, Evening & Night:</u> 35 <u>Night</u> <u>LA1 (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>LA1 (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>LA1 (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=51648&SYSUID=1&LICID=12789>

Licensee: Narrabri Coal Operations Pty Ltd

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

EPL Monitoring Points: See Figure 1 below

Sampling Period: December 2015

Publication Date: 7th January 2016

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	15-Dec-15	18-Dec-15	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						

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

Table 2 - Pollutant Limits Apply (Water)

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

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

EPL ID	Date	Measured Levels – dB(A) Leq 15min Day	Measured Levels – dB(A) Leq 15min Evening	Measured Levels – dB(A) Leq 15min Night	Measured Levels – dB(A) LA1 (1 min) Night	Limit(s)	Measurement Periods	Weather Compliant Conditions	Compliant (Yes/No)	Comments
N5	1-Dec-15	<20	27	27	36	<u>Day, Evening & Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs	No	Yes	Results are NM sources
	2-Dec-15	<20	32	<20	N/A		Evening – 0.5 hrs	No	Yes	Results are NM sources
	3-Dec-15	<20	<20	<20	N/A		Night – 1 hr	No	Yes	Results are NM sources
N6	1-Dec-15	33	29	22	26	<u>Day, Evening & Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs	No	Yes	Results are NM sources
	2-Dec-15	25	29	29	34		Evening – 0.5 hrs	No	Yes	Results are NM sources
	3-Dec-15	26	30	29	33		Night – 1 hr	No	Yes	Results are NM sources
N7	1-Dec-15	<20	<20	<20	<30	<u>Day, Evening & Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs	No	Yes	Results are NM sources
	2-Dec-15	<20	30	30	37		Evening – 0.5 hrs	No	Yes	Results are NM sources
	3-Dec-15	<20	<20	<20	N/A		Night – 1 hr	No	Yes	Results are NM sources
N8	Monitoring at N8 to commence when surface activities approach the eastern end of the southern longwall panels.									



WHITEHAVEN COAL

Figure 1 – EPL 12789 Monitoring Locations

