

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: January 2016

Publication Date: 5/02/2016

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-Jan-16	25-Jan-16	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						
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			
							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



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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 2016

Publication Date: 4 February 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-Feb-16	22-Feb-16	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						
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			
							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



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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: March 2016

Obtained Date: 24 March 2016

Publication Date: 6 April 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	16-Mar-16	22-Mar-16	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						

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						

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	Date Obtained
N5	14-Mar-16	24	<20	<20	n/a	<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-Mar-16
	15-Mar-16	<20	<20	<20	n/a		Evening – 0.5 hrs	No	Yes	Results are NM sources	24-Mar-16
	16-Mar-16	<20	<20	<20	n/a		Night – 1 hr	No	Yes	Results are NM sources	24-Mar-16
N6	14-Mar-16	12	16	10	14	<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	24-Mar-16
	15-Mar-16	<20	<20	16	19		Evening – 0.5 hrs	No	Yes	Results are NM sources	24-Mar-16
	16-Mar-16	24	27	22	26		Night – 1 hr	No	Yes	Results are NM sources	24-Mar-16
N7	14-Mar-16	<20	32	26	32	<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	24-Mar-16
	15-Mar-16	<20	30	<20	n/a		Evening – 0.5 hrs	No	Yes	Results are NM sources	24-Mar-16
	16-Mar-16	<20	<20	<20	n/a		Night – 1 hr	No	Yes	Results are NM sources	24-Mar-16
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=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: April 2016

Obtained Date: 28 April 2016

Publication Date: 2 May 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-Apr-16	28-Apr-16	N/A	N/A	N/A	1.9
11	Conductivity	µs/cm	Upon discharge	0						
	TOC	mg/L		0						
12	Conductivity	µs/cm	Upon discharge	0						
	TOC	mg/L		0						
13	Conductivity	µs/cm	Upon discharge	0						
	TOC	mg/L		0						
14	Conductivity	µs/cm	Quarterly – Upon discharge	0						
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
15	Conductivity	µs/cm	Quarterly – Upon discharge	0						
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						



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

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						

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	Date Obtained
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



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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 2016

Obtained Date: 26 May 2016

Publication Date: 3 June 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	16-May-16	26-May-16	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						

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						

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	Date Obtained
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: June 2016

Obtained Date: 21 July 2016

Publication Date: 8 August 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-Jun-16	27-Jun-16	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	24-Jun-16	21-Jul-16	N/A	N/A	N/A	160
	TOC	mg/L		1	24-Jun-16	21-Jul-16	N/A	N/A	N/A	2
	Oil & Grease	mg/L		1	24-Jun-16	21-Jul-16	N/A	N/A	N/A	<5
	pH	pH		1	24-Jun-16	21-Jul-16	N/A	N/A	N/A	7.55
	TSS	mg/L		1	24-Jun-16	21-Jul-16	N/A	N/A	N/A	63



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	24-Jun-16	21-Jul-16	N/A	N/A	N/A	50
	TOC	mg/L		1	24-Jun-16	21-Jul-16	N/A	N/A	N/A	13
	Oil & Grease	mg/L		1	24-Jun-16	21-Jul-16	N/A	N/A	N/A	<5
	pH	pH		1	24-Jun-16	21-Jul-16	N/A	N/A	N/A	6.87
	TSS	mg/L		1	24-Jun-16	21-Jul-16	N/A	N/A	N/A	82
17	Conductivity	µs/cm	Quarterly – Upon discharge	1	24-Jun-16	21-Jul-16	N/A	N/A	N/A	49
	TOC	mg/L		1	24-Jun-16	21-Jul-16	N/A	N/A	N/A	16
	Oil & Grease	mg/L		1	24-Jun-16	21-Jul-16	N/A	N/A	N/A	<5
	pH	pH		1	24-Jun-16	21-Jul-16	N/A	N/A	N/A	6.85
	TSS	mg/L		1	24-Jun-16	21-Jul-16	N/A	N/A	N/A	12
18	Conductivity	µs/cm	Upon discharge	SD7 not yet constructed						
	TOC	mg/L								
19	Conductivity	µs/cm	Quarterly – Upon discharge	1	24-Jun-16	21-Jul-16	N/A	N/A	N/A	70
	TOC	mg/L		1	24-Jun-16	21-Jul-16	N/A	N/A	N/A	10
	Oil & Grease	mg/L		1	24-Jun-16	21-Jul-16	N/A	N/A	N/A	<5
	pH	pH		1	24-Jun-16	21-Jul-16	N/A	N/A	N/A	7.28
	TSS	mg/L		1	24-Jun-16	21-Jul-16	N/A	N/A	N/A	92
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	2	20 & 24-Jun-16	21-Jul-16	50	54	54	57
	TOC	mg/L		2	20 & 24-Jun-16	21-Jul-16	6	7	7	8
	Oil & Grease	mg/L		2	20 & 24-Jun-16	21-Jul-16	<5	<5	<5	<5
	pH	pH		2	20 & 24-Jun-16	21-Jul-16	6.88	6.97	6.97	7.05
	TSS	mg/L		2	20 & 24-Jun-16	21-Jul-16	150	171	171	192

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
22	Conductivity	µs/cm	Quarterly – Upon discharge	1	24-Jun-16	21-Jul-16	N/A	N/A	N/A	105
	TOC	mg/L		1	24-Jun-16	21-Jul-16	N/A	N/A	N/A	1
	Oil & Grease	mg/L		1	24-Jun-16	21-Jul-16	N/A	N/A	N/A	<5
	pH	pH		1	24-Jun-16	21-Jul-16	N/A	N/A	N/A	7.52
	TSS	mg/L		1	24-Jun-16	21-Jul-16	N/A	N/A	N/A	28

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	Date Obtained
N5	14-Jun-16	<20	<20	<20	n/a	<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	4-Jul-16
	15-Jun-16	<20	<20	<20	n/a		Evening – 0.5 hrs	No	Yes	Results are NM sources	4-Jul-16
	16-Jun-16	28	29	33	37		Night – 1 hr	Yes	Yes	Results are NM sources	4-Jul-16
N6	14-Jun-16	10	20	21	24	<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	4-Jul-16
	15-Jun-16	<20	<20	<20	<20		Evening – 0.5 hrs	No	Yes	Results are NM sources	4-Jul-16
	16-Jun-16	<20	<20	<20	n/a		Night – 1 hr	No	Yes	Results are NM sources	4-Jul-16
N7	14-Jun-16	<20	24	28	32	<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	4-Jul-16
	15-Jun-16	<20	<20	28	33		Evening – 0.5 hrs	No	Yes	Results are NM sources	4-Jul-16
	16-Jun-16	<20	22	22	25		Night – 1 hr	No	Yes	Results are NM sources	4-Jul-16
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 2016

Obtained Date: 3 August 2016

Publication Date: 8 August 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	14-Jul-16	3-Aug-16	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	2	5, 21-Jul-16	3-Aug-16	124	148	148	171
	TOC	mg/L		2	5, 21-Jul-16	3-Aug-16	10	15	15	19
	Oil & Grease	mg/L		2	5, 21-Jul-16	3-Aug-16	<5	5	5	5
	pH	pH		2	5, 21-Jul-16	3-Aug-16	7.13	7.18	7.18	7.22
	TSS	mg/L		2	5, 21-Jul-16	3-Aug-16	22	37	37	52

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	2	5, 21-Jul-16	3-Aug-16	36	45	45	54
	TOC	mg/L		2	5, 21-Jul-16	3-Aug-16	12	16	16	19
	Oil & Grease	mg/L		2	5, 21-Jul-16	3-Aug-16	5	9	9	12
	pH	pH		2	5, 21-Jul-16	3-Aug-16	6.49	6.62	6.62	6.75
	TSS	mg/L		2	5, 21-Jul-16	3-Aug-16	39	84	84	128
17	Conductivity	µs/cm	Quarterly – Upon discharge	2	5, 21-Jul-16	3-Aug-16	57	67	67	77
	TOC	mg/L		2	5, 21-Jul-16	3-Aug-16	23	25	25	27
	Oil & Grease	mg/L		2	5, 21-Jul-16	3-Aug-16	<5	<5	<5	<5
	pH	pH		2	5, 21-Jul-16	3-Aug-16	6.60	6.64	6.64	6.67
	TSS	mg/L		2	5, 21-Jul-16	3-Aug-16	20	20	20	20
18	Conductivity	µs/cm	Upon discharge	SD7 not yet constructed						
	TOC	mg/L								
19	Conductivity	µs/cm	Quarterly – Upon discharge	2	5, 21-Jul-16	3-Aug-16	47	50	50	52
	TOC	mg/L		2	5, 21-Jul-16	3-Aug-16	12	13	13	14
	Oil & Grease	mg/L		2	5, 21-Jul-16	3-Aug-16	8	9	9	9
	pH	pH		2	5, 21-Jul-16	3-Aug-16	6.64	6.76	6.76	6.87
	TSS	mg/L		2	5, 21-Jul-16	3-Aug-16	120	127	127	134
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	2	5, 21-Jul-16	3-Aug-16	72	74	74	76
	TOC	mg/L		2	5, 21-Jul-16	3-Aug-16	10	12	12	13
	Oil & Grease	mg/L		2	5, 21-Jul-16	3-Aug-16	<5	7	7	8
	pH	pH		2	5, 21-Jul-16	3-Aug-16	6.57	6.79	6.79	7.01
	TSS	mg/L		2	5, 21-Jul-16	3-Aug-16	92	113	113	133
22	Conductivity	µs/cm	Quarterly – Upon discharge	1	21-Jul-16	3-Aug-16	N/A	N/A	N/A	196
	TOC	mg/L		1	21-Jul-16	3-Aug-16	N/A	N/A	N/A	16
	Oil & Grease	mg/L		1	21-Jul-16	3-Aug-16	N/A	N/A	N/A	<5
	pH	pH		1	21-Jul-16	3-Aug-16	N/A	N/A	N/A	7.73

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		1	21-Jul-16	3-Aug-16	N/A	N/A	N/A	60

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	Date Obtained
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: August 2016

Obtained Date: 31 August 2016

Publication Date: 12 September 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	12-Aug-16	24-Aug-16	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	2	23, 25-Aug-16	31-Aug-16	87	88	88	88
	TOC	mg/L		2	23, 25-Aug-16	31-Aug-16	11	12	12	13
	Oil & Grease	mg/L		2	23, 25-Aug-16	31-Aug-16	<5	<5	<5	<5
	pH	pH		2	23, 25-Aug-16	31-Aug-16	7.06	7.17	7.17	7.27
	TSS	mg/L		2	23, 25-Aug-16	31-Aug-16	21	23	23	24
15	Conductivity	µs/cm	Quarterly – Upon discharge	3	3, 23, 25-Aug-16	31-Aug-16	96	135	127	183
	TOC	mg/L		3	3, 23, 25-Aug-16	31-Aug-16	12	13	13	15
	Oil & Grease	mg/L		3	3, 23, 25-Aug-16	31-Aug-16	<5	<5	<5	<5
	pH	pH		3	3, 23, 25-Aug-16	31-Aug-16	7.09	7.42	7.57	7.61
	TSS	mg/L		3	3, 23, 25-Aug-16	31-Aug-16	31	47	38	73



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	3	3, 23, 25-Aug-16	31-Aug-16	38	47	48	56
	TOC	mg/L		3	3, 23, 25-Aug-16	31-Aug-16	10	11	10	14
	Oil & Grease	mg/L		3	3, 23, 25-Aug-16	31-Aug-16	<5	<5	<5	<5
	pH	pH		3	3, 23, 25-Aug-16	31-Aug-16	6.88	6.95	6.93	7.05
	TSS	mg/L		3	3, 23, 25-Aug-16	31-Aug-16	14	34	20	69
17	Conductivity	µs/cm	Quarterly – Upon discharge	3	3, 23, 25-Aug-16	31-Aug-16	51	69	70	85
	TOC	mg/L		3	3, 23, 25-Aug-16	31-Aug-16	23	24	24	24
	Oil & Grease	mg/L		3	3, 23, 25-Aug-16	31-Aug-16	<5	<5	<5	<5
	pH	pH		3	3, 23, 25-Aug-16	31-Aug-16	6.90	6.94	6.92	6.99
	TSS	mg/L		3	3, 23, 25-Aug-16	31-Aug-16	16	19	17	25
18	Conductivity	µs/cm	Upon discharge	SD7 not yet constructed						
	TOC	mg/L								
19	Conductivity	µs/cm	Quarterly – Upon discharge	3	3, 23, 25-Aug-16	31-Aug-16	57	233	189	454
	TOC	mg/L		3	3, 23, 25-Aug-16	31-Aug-16	7	11	12	13
	Oil & Grease	mg/L		3	3, 23, 25-Aug-16	31-Aug-16	<5	5	5	5
	pH	pH		3	3, 23, 25-Aug-16	31-Aug-16	7.07	7.24	7.22	7.42
	TSS	mg/L		3	3, 23, 25-Aug-16	31-Aug-16	28	319	44	884
20	Conductivity	µs/cm	Quarterly – Upon discharge	3	3, 23, 25-Aug-16	31-Aug-16	59	155	166	239
	TOC	mg/L		3	3, 23, 25-Aug-16	31-Aug-16	6	12	12	17
	Oil & Grease	mg/L		3	3, 23, 25-Aug-16	31-Aug-16	<5	<5	<5	<5
	pH	pH		3	3, 23, 25-Aug-16	31-Aug-16	6.89	7.16	7.15	7.43
	TSS	mg/L		3	3, 23, 25-Aug-16	31-Aug-16	20	157	43	408
21	Conductivity	µs/cm	Quarterly – Upon discharge	3	3, 23, 25-Aug-16	31-Aug-16	70	123	147	151
	TOC	mg/L		3	3, 23, 25-Aug-16	31-Aug-16	7	12	14	14
	Oil & Grease	mg/L		3	3, 23, 25-Aug-16	31-Aug-16	<5	<5	<5	<5
	pH	pH		3	3, 23, 25-Aug-16	31-Aug-16	7.29	7.42	7.38	7.58
	TSS	mg/L		3	3, 23, 25-Aug-16	31-Aug-16	12	68	35	158
22	Conductivity	µs/cm	Quarterly – Upon discharge	3	3, 23, 25-Aug-16	31-Aug-16	105	257	132	533
	TOC	mg/L		3	3, 23, 25-Aug-16	31-Aug-16	10	11	10	13
	Oil & Grease	mg/L		3	3, 23, 25-Aug-16	31-Aug-16	<5	<5	<5	<5
	pH	pH		3	3, 23, 25-Aug-16	31-Aug-16	7.44	8.12	7.61	9.31

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		3	3, 23, 25-Aug-16	31-Aug-16	35	160	83	361

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	Date Obtained
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: September 2016

Obtained Date: 14 October 2016

Publication Date: 21 October 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	13-Sep-16	20-Sep-16	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	7	15-16, 19-23-Sep-16	29-Sep-16	118	142	126	174
	TOC	mg/L		7	15-16, 19-23-Sep-16	29-Sep-16	12	14	14	18
13	Conductivity	µs/cm	Upon discharge	3	15-16, 19-Sep-16	26-Sep-16	152	168	170	183
	TOC	mg/L		3	15-16, 19-Sep-16	26-Sep-16	11	12	13	13
14	Conductivity	µs/cm	Quarterly – Upon discharge	8	14-16, 19-23-Sep-16	29-Sep-16	92	177	184	255
	TOC	mg/L		8	14-16, 19-23-Sep-16	29-Sep-16	11	12	11	15
	Oil & Grease	mg/L		8	14-16, 19-23-Sep-16	29-Sep-16	<5	5	5	7
	pH	pH		8	14-16, 19-	29-Sep-16	7.20	7.37	7.34	7.63

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
					23-Sep-16					
	TSS	mg/L		8	14-16, 19-23-Sep-16	29-Sep-16	10	31	26	62
15	Conductivity	µs/cm	Quarterly – Upon discharge	9	1, 14-16, 19-23-Sep-16	29-Sep-16	114	420	334	1100
	TOC	mg/L		9	1, 14-16, 19-23-Sep-16	29-Sep-16	6	10	9	14
	Oil & Grease	mg/L		9	1, 14-16, 19-23-Sep-16	29-Sep-16	<5	<5	<5	<5
	pH	pH		9	1, 14-16, 19-23-Sep-16	29-Sep-16	7.45	7.59	7.50	7.85
	TSS	mg/L		9	1, 14-16, 19-23-Sep-16	29-Sep-16	6	25	12	115
16	Conductivity	µs/cm	Quarterly – Upon discharge	8	14-16, 19-23-Sep-16	29-Sep-16	40	87	82	131
	TOC	mg/L		8	14-16, 19-23-Sep-16	29-Sep-16	9	12	12	14
	Oil & Grease	mg/L		8	14-16, 19-23-Sep-16	29-Sep-16	<5	5	5	6
	pH	pH		8	14-16, 19-23-Sep-16	29-Sep-16	6.64	7.15	7.26	7.51
	TSS	mg/L		8	14-16, 19-23-Sep-16	29-Sep-16	<5	9	5	26
17	Conductivity	µs/cm	Quarterly – Upon discharge	8	14-16, 19-23-Sep-16	29-Sep-16	52	140	164	172
	TOC	mg/L		8	14-16, 19-23-Sep-16	29-Sep-16	12	14	14	17
	Oil & Grease	mg/L		8	14-16, 19-23-Sep-16	29-Sep-16	<5	<5	<5	<5
	pH	pH		8	14-16, 19-23-Sep-16	29-Sep-16	7.03	7.30	7.35	7.51
	TSS	mg/L		8	14-16, 19-23-Sep-16	29-Sep-16	5	32	8	191

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
18	Conductivity	µs/cm	Upon discharge	SD7 not yet constructed						
	TOC	mg/L								
19	Conductivity	µs/cm	Quarterly – Upon discharge	9	1, 14-16, 19-23-Sep-16	29-Sep-16	93	607	465	1280
	TOC	mg/L		9	1, 14-16, 19-23-Sep-16	29-Sep-16	7	9	9	13
	Oil & Grease	mg/L		9	1, 14-16, 19-23-Sep-16	29-Sep-16	<5	<5	<5	<5
	pH	pH		9	1, 14-16, 19-23-Sep-16	29-Sep-16	7.23	7.62	7.57	8.00
	TSS	mg/L		9	1, 14-16, 19-23-Sep-16	29-Sep-16	5	40	16	209
20	Conductivity	µs/cm	Quarterly – Upon discharge	8	14-16, 19-23-Sep-16	29-Sep-16	125	476	439	921
	TOC	mg/L		8	14-16, 19-23-Sep-16	29-Sep-16	8	9	9	12
	Oil & Grease	mg/L		8	14-16, 19-23-Sep-16	29-Sep-16	<5	5	5	7
	pH	pH		8	14-16, 19-23-Sep-16	29-Sep-16	7.39	7.60	7.57	7.84
	TSS	mg/L		8	14-16, 19-23-Sep-16	29-Sep-16	6	36	11	181
21	Conductivity	µs/cm	Quarterly – Upon discharge	9	1, 14-16, 19-23-Sep-16	29-Sep-16	109	131	126	161
	TOC	mg/L		9	1, 14-16, 19-23-Sep-16	29-Sep-16	6	10	10	12
	Oil & Grease	mg/L		9	1, 14-16, 19-23-Sep-16	29-Sep-16	<5	5	5	6
	pH	pH		9	1, 14-16, 19-23-Sep-16	29-Sep-16	7.18	7.47	7.51	7.72
	TSS	mg/L		9	1, 14-16, 19-23-Sep-16	29-Sep-16	5	13	14	23
22	Conductivity	µs/cm	Quarterly –	9	1, 14-16, 19-	29-Sep-16	85	121	108	224

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
			Upon discharge		23-Sep-16					
	TOC	mg/L		9	1, 14-16, 19-23-Sep-16	29-Sep-16	10	11	11	13
	Oil & Grease	mg/L		9	1, 14-16, 19-23-Sep-16	29-Sep-16	<5	<5	<5	<5
	pH	pH		9	1, 14-16, 19-23-Sep-16	29-Sep-16	7.45	7.69	7.62	8.33
	TSS	mg/L		9	1, 14-16, 19-23-Sep-16	29-Sep-16	18	66	45	196

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	7	15-16, 19-23-Sep-16	29-Sep-16	<5	9	21	50	No	Dam – SD5
	Oil & Grease	mg/L		7	15-16, 19-23-Sep-16	29-Sep-16	<5	<5	<5	10	No	
	pH	pH		7	15-16, 19-23-Sep-16	29-Sep-16	7.05	7.38	7.76	6.5-8.5	No	
13	TSS	mg/L	Upon discharge	3	15-16, 19-Sep-16	26-Sep-16	<5	9	12	50	No	Dam – SD2
	Oil & Grease	mg/L		3	15-16, 19-Sep-16	26-Sep-16	<5	<5	<5	10	No	
	pH	pH		3	15-16, 19-Sep-16	26-Sep-16	7.44	7.50	7.61	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) 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	Date Obtained
N5	26-Sep-16	22	22	20	23	<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	14-Oct-16
	27-Sep-16	24	<20	<20	n/a		Evening – 0.5 hrs	No	Yes	Results are NM sources	14-Oct-16
	28-Sep-16	<20	43	35	40		Night – 1 hr	Yes	No	Results are NM sources	14-Oct-16
N6	26-Sep-16	30	32	33	35	<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	14-Oct-16
	27-Sep-16	31	33	32	35		Evening – 0.5 hrs	No	Yes	Results are NM sources	14-Oct-16
	28-Sep-16	33	33	33	35		Night – 1 hr	Yes	Yes	Results are NM sources	14-Oct-16
N7	26-Sep-16	<20	31	28	33	<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	14-Oct-16
	27-Sep-16	<20	26	33	37		Evening – 0.5 hrs	No	Yes	Results are NM sources	14-Oct-16
	28-Sep-16	<20	<20	25	28		Night – 1 hr	Yes	Yes	Results are NM sources	14-Oct-16
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 2016

Obtained Date: 18 October 2016

Publication Date: 3 November 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	12-Oct-16	18-Oct-16	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						

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						

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								Dam – SD5
	Oil & Grease	mg/L		0								
	pH	pH		0								
13	TSS	mg/L	Upon discharge	0								Dam – SD2
	Oil & Grease	mg/L		0								
	pH	pH		0								
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	Date Obtained
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 2016

Obtained Date: 21 November 2016

Publication Date: 25 November 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	11-Nov-16	21-Nov-16	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						

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						

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								Dam – SD5
	Oil & Grease	mg/L		0								
	pH	pH		0								
13	TSS	mg/L	Upon discharge	0								Dam – SD2
	Oil & Grease	mg/L		0								
	pH	pH		0								
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	Date Obtained
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.										



WHITEHAVEN COAL

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 2016

Obtained Date: 22 December 2016

Publication Date: 28 December 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	9-Dec-16	22-Dec-16	N/A	N/A	N/A	3.8
11	Conductivity	µs/cm	Upon discharge	0						
	TOC	mg/L		0						
12	Conductivity	µs/cm	Upon discharge	0						
	TOC	mg/L		0						
13	Conductivity	µs/cm	Upon discharge	0						
	TOC	mg/L		0						
14	Conductivity	µs/cm	Quarterly – Upon discharge	0						
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
15	Conductivity	µs/cm	Quarterly – Upon discharge	0						
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						



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

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						

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								Dam – SD5
	Oil & Grease	mg/L		0								
	pH	pH		0								
13	TSS	mg/L	Upon discharge	0								Dam – SD2
	Oil & Grease	mg/L		0								
	pH	pH		0								
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	Date Obtained
N5	6-Dec-16	<20	24	<20	n/a	<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	21-Dec-16
	7-Dec-16	20	22	33	39		Evening – 0.5 hrs	Yes	Yes	Results are NM sources	21-Dec-16
	8-Dec-16	<20	22	23	27		Night – 1 hr	No	Yes	Results are NM sources	21-Dec-16
N6	6-Dec-16	32	33	33	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	21-Dec-16
	7-Dec-16	30	33	32	36		Evening – 0.5 hrs	Yes	Yes	Results are NM sources	21-Dec-16
	8-Dec-16	29	31	33	38		Night – 1 hr	No	Yes	Results are NM sources	21-Dec-16
N7	6-Dec-16	<20	<20	23	27	<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	21-Dec-16
	7-Dec-16	<20	<20	21	24		Evening – 0.5 hrs	Yes	Yes	Results are NM sources	21-Dec-16
	8-Dec-16	<20	<20	<20	n/a		Night – 1 hr	No	Yes	Results are NM sources	21-Dec-16
N8	Monitoring at N8 to commence when surface activities approach the eastern end of the southern longwall panels.										

Figure 1 – EPL 12789 Monitoring Locations

