

## NARRABRI MINE – MONTHLY MONITORING SUMMARY

### Site Information

**EPL No:** 12789

**EPA Website Link:** <http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=106922&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:** 15 January 2020

**Obtained Date:** 21 January 2020

**Publication Date:** 28 January 2020

**Table 1 – No Pollutant Limits Apply**

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
ND3	Deposited Matter	g/m <sup>2</sup> /month	Once a month (min. 4 weeks)	1	15-Jan-20	21-Jan-20	NA	NA	NA	4.5
11	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							
	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		
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
<b>N5</b>	Not required					<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs  Evening – 0.5 hrs  Night – 1 hr				
<b>N6</b>	Not required					<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs  Evening – 0.5 hrs  Night – 1 hr				
<b>N8</b>	Not required					<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs  Evening – 0.5 hrs  Night – 1 hr				
<b>N9</b>	Not required					<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs  Evening – 0.5 hrs  Night – 1 hr				



Figure 1 – EPL 12789 Monitoring Locations



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**EPA Website Link:** <http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=106922&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:** 13 February 2020

**Obtained Date:** 24 February 2020

**Publication Date:** 12 March 2020

**Table 1 – No Pollutant Limits Apply**

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
ND3	Deposited Matter	g/m <sup>2</sup> /month	Once a month (min. 4 weeks)	1	13-Feb-20	24-Feb-20	NA	NA	NA	9.7
11	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							
	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		
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
<b>N5</b>	Not required					<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs  Evening – 0.5 hrs  Night – 1 hr				
<b>N6</b>	Not required					<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs  Evening – 0.5 hrs  Night – 1 hr				
<b>N8</b>	Not required					<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs  Evening – 0.5 hrs  Night – 1 hr				
<b>N9</b>	Not required					<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs  Evening – 0.5 hrs  Night – 1 hr				



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=106922&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:** 13 March 2020

**Obtained Date:** 24 March 2020

**Publication Date:** 30 March 2020

**Table 1 – No Pollutant Limits Apply**

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
ND3	Deposited Matter	g/m <sup>2</sup> /month	Once a month (min. 4 weeks)	1	13-Mar-20	24-Feb-20	NA	NA	NA	1.3
11	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							
	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		
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
<b>N5</b>	Not required					<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs  Evening – 0.5 hrs  Night – 1 hr				
<b>N6</b>	Not required					<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs  Evening – 0.5 hrs  Night – 1 hr				
<b>N8</b>	Not required					<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs  Evening – 0.5 hrs  Night – 1 hr				
<b>N9</b>	Not required					<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs  Evening – 0.5 hrs  Night – 1 hr				

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=106922&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 2020

**Obtained Date:** 22<sup>nd</sup> and 27<sup>th</sup> of April 2020

**Publication Date:** 30 April 2020

**Table 1 – No Pollutant Limits Apply**

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
ND3	Deposited Matter	g/m <sup>2</sup> /month	Once a month (min. 4 weeks)	1	14-Apr-20	22-Apr-20	NA	NA	NA	1.8
11	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							
	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		
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 – Quarterly Attended Noise Monitoring results summary table (report received 27 April 2020)**

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
<b>N5</b>	24/03/20	I/A	25	25	27	<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs	Y/Y/Y	Y		29/04/2020
	25/03/20	31	I/A	N/M	N/M		Evening – 0.5 hrs	Y/Y/Y	Y		29/04/2020
	26/03/20	I/A	I/A	I/A	I/A		Night – 1 hr	Y/N/N	Y		29/04/2020
<b>N6</b>	24/03/20	27	N/M	I/A	I/A	<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs	N/Y/Y	Y		29/04/2020
	25/03/20	N/M	N/M	26	30		Evening – 0.5 hrs	Y/Y/N	Y		29/04/2020
	26/03/20	25	N/M	N/M	N/M		Night – 1 hr	Y/N/N	Y		29/04/2020
<b>N8</b>	24/03/20	26	<25	27	28	<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs	Y/Y/Y	Y		29/04/2020
	25/03/20	27	34 <sup>1</sup>	30	33		Evening – 0.5 hrs	Y/Y/Y	Y		29/04/2020
	26/03/20	<25	I/A	I/A	I/A		Night – 1 hr	N/N/N	Y		29/04/2020
<b>N9</b>	24/03/20	<25	I/A	N/M	N/M	<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs	N/Y/Y	Y		29/04/2020
	25/03/20	I/A	27	27	29		Evening – 0.5 hrs	Y/Y/N	Y		29/04/2020
	26/03/20	27	25	<25	26		Night – 1 hr	N/N/N	Y		29/04/2020

Figure 1 – EPL 12789 Monitoring Locations





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**EPA Website Link:** <http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=106922&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 2020

**Obtained Date:** 22<sup>nd</sup> May 2020

**Publication Date:** 28<sup>th</sup> May 2020

**Table 1 – No Pollutant Limits Apply**

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
ND3	Deposited Matter	g/m <sup>2</sup> /month	Once a month (min. 4 weeks)	1	13 May 20	22 May 20	NA	NA	NA	1.3
11	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							
	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		
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 – Quarterly Attended Noise Monitoring results summary table** (report received 27 April 2020)

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
<b>N5</b>	Not Required										
<b>N6</b>	Not Required										
<b>N8</b>	Not Required										
<b>N9</b>											
	Not Required										

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=106922&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 2020

**Obtained Date:** 23 June 2020

**Publication Date:** 06 July 2020

**Table 1 – No Pollutant Limits Apply**

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
ND3	Deposited Matter	g/m <sup>2</sup> /month	Once a month (min. 4 weeks)	1	12 June 2020	23 June 2020	NA	NA	NA	0.8
11	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							
	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		
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 – Quarterly Attended Noise Monitoring results summary table**

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	Monitoring completed as required by EPL over period 23-26 June. Results not available at time of reporting, and will be included in July monthly reporting.										
N6											
N8											
N9											

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=106922&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 **Error! Reference source not found.** below

**Sampling Period:** July 2020

**Obtained Date:** 29 July 2020

**Publication Date:** 6 August 2020

**Table 1 – No Pollutant Limits Apply**

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
ND3	Deposited Matter	g/m <sup>2</sup> /month	Once a month (min. 4 weeks)	1	13 July 2020	22 July 2020	NA	NA	NA	1.4
11	Conductivity	µs/cm	Upon discharge	<i>No discharge or flow events occurred during July 2020.</i>						
	TOC	mg/L								
13	Conductivity	µs/cm	Upon discharge	<i>No discharge or flow events occurred during July 2020.</i>						
	TOC	mg/L								
14	Conductivity	µs/cm	Quarterly – Upon discharge	<i>No discharge or flow events occurred during July 2020.</i>						
	TOC	mg/L								
	Oil & Grease	mg/L								
	pH	pH								
	TSS	mg/L								
15	Conductivity	µs/cm	Quarterly – Upon discharge	<i>No discharge or flow events occurred during July 2020.</i>						
	TOC	mg/L								
	Oil & Grease	mg/L								
	pH	pH								
	TSS	mg/L								
16	Conductivity	µs/cm	Quarterly – Upon discharge	<i>No discharge or flow events occurred during July 2020.</i>						
	TOC	mg/L								
	Oil & Grease	mg/L								
	pH	pH								
	TSS	mg/L								
17	Conductivity	µs/cm	Quarterly – Upon discharge	<i>No discharge or flow events occurred during July 2020.</i>						
	TOC	mg/L								
	Oil & Grease	mg/L								
	pH	pH								
	TSS	mg/L								
18	Conductivity	µs/cm	Upon discharge	<i>No discharge or flow events occurred during July 2020.</i>						
	TOC	mg/L								

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
19	Conductivity	µs/cm	Quarterly – Upon discharge	<i>No discharge or flow events occurred during July 2020.</i>						
	TOC	mg/L								
	Oil & Grease	mg/L								
	pH	pH								
	TSS	mg/L								
20	Conductivity	µs/cm	Quarterly – Upon discharge	<i>No discharge or flow events occurred during July 2020.</i>						
	TOC	mg/L								
	Oil & Grease	mg/L								
	pH	pH								
	TSS	mg/L								
21	Conductivity	µs/cm	Quarterly – Upon discharge	<i>No discharge or flow events occurred during July 2020.</i>						
	TOC	mg/L								
	Oil & Grease	mg/L								
	pH	pH								
	TSS	mg/L								
22	Conductivity	µs/cm	Quarterly – Upon discharge	<i>No discharge or flow events occurred during July 2020.</i>						
	TOC	mg/L								
	Oil & Grease	mg/L								
	pH	pH								
	TSS	mg/L								
24	Conductivity	µs/cm	Quarterly – Upon discharge	<i>No discharge or flow events occurred during July 2020.</i>						
	TOC	mg/L								
	Oil & Grease	mg/L								
	pH	pH								
	TSS	mg/L								
25	Conductivity	µs/cm	Quarterly – Upon discharge	<i>No discharge or flow events occurred during July 2020.</i>						
	TOC	mg/L								
	Oil & Grease	mg/L								
	pH	pH								
	TSS	mg/L								
26	Conductivity	µs/cm								





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	<i>No discharge or flow events occurred during July 2020.</i>						
	Oil & Grease	mg/L								
	pH	pH								
	TSS	mg/L								
27	Conductivity	µs/cm	Upon discharge	<i>No discharge or flow events occurred during July 2020.</i>						
	TOC	mg/L								

**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 (Mine Site Sample ID)
11	TSS	mg/L	Upon discharge	<i>No discharge or flow events occurred during July 2020.</i>						50		SD4
	Oil & Grease	mg/L								10		
	pH	pH								6.5-8.5		
13	TSS	mg/L	Upon discharge	<i>No discharge or flow events occurred during July 2020.</i>						50		SD2
	Oil & Grease	mg/L								10		
	pH	pH								6.5-8.5		
18	TSS	mg/L	Upon discharge	<i>No discharge or flow events occurred during July 2020.</i>						50		SD7
	Oil & Grease	mg/L								10		
	pH	pH								6.5-8.5		
24	TDS	mg/L	Upon discharge	<i>No discharge or flow events occurred during July 2020.</i>						350		NR1
	pH	pH								6.5-8.5		
27	TSS	mg/L	Upon discharge	<i>No discharge or flow events occurred during July 2020.</i>						50		SD8
	Oil & Grease	mg/L								10		
	pH	pH								6.5-8.5		

**Table 3 – Quarterly Attended Noise Monitoring results summary table**

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 <sup>2</sup>	23/06/2020	26	32	30	43	<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs	Y/Y/Y	Y		29/07/2020
	24/06/2020	26	<25	I/A	I/A		Evening – 0.5 hrs	Y/Y/Y	Y		29/07/2020
	25/06/2020	N/M	20	I/A	I/A		Night – 1 hr	Y/Y/Y	Y		29/07/2020
N6	23/06/2020	I/A	26	40 <sup>1</sup>	40	<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs	Y/Y/Y	N		29/07/2020
	24/06/2020	25	32	30	32		Evening – 0.5 hrs	Y/Y/Y	Y		29/07/2020
	25/06/2020	27	30	29	31		Night – 1 hr	Y/Y/Y	Y		29/07/2020
N8 <sup>2</sup>	23/06/2020	<i>Monitoring at N8 to commence when surface activities approach the eastern end of the southern long wall panels. Not currently required.</i>				<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs				
	24/06/2020						Evening – 0.5 hrs				
	25/06/2020						Night – 1 hr				
N9 <sup>3</sup>	23/06/2020	I/A	25	42 <sup>1</sup>	45	<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs	Y/Y/Y	Y <sup>4</sup>		29/07/2020
	24/06/2020	23	34	26	28		Evening – 0.5 hrs	Y/Y/Y	Y		29/07/2020
	25/06/2020	N/M	33	26	33		Night – 1 hr	Y/Y/Y	Y		29/07/2020

I/A = Inaudible, N/M = Not Measurable





Note 1: 2dB modifying factor correction for low frequency noise has been applied in accordance with the NPfl.

Note 2: Property is owned by Narrabri Coal Operations.

Note 3: A private agreement between NCOPL and the residents of N9 High Range of 40 dBA LAeq(15minute) and 50 dBA LA1(1minute) is in place. These new levels of 40 dBA LAeq(15minute) and 50 dBA LA1(1minute) replace the levels identified in condition L3 of Environment Protection Licence No 12789

Note 4: Within 2 dB tolerance as per section 11.1.3 of the NSW Industrial Noise Policy, A development will be deemed to be in non-compliance with a noise consent or license if the monitored noise level is more than 2 dB above the statutory noise limit specified in the consent or licence condition.

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=106922&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 2020

**Obtained Date:** 24 August 2020

**Publication Date:** 2 September 2020

**Table 1 – No Pollutant Limits Apply**

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
ND3	Deposited Matter	g/m <sup>2</sup> /month	Once a month (min. 4 weeks)	1	13 August 2020	24 August 2020	NA	NA	NA	6.9
11	Conductivity	µs/cm	Upon discharge	0	<i>No discharge or flow events occurred during August 2020.</i>					
	TOC	mg/L								
13	Conductivity	µs/cm	Upon discharge	0	<i>No discharge or flow events occurred during August 2020.</i>					
	TOC	mg/L		0						
14	Conductivity	µs/cm	Quarterly – Upon discharge	0	<i>No discharge or flow events occurred during August 2020.</i>					
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
15	Conductivity	µs/cm	Quarterly – Upon discharge	0	<i>No discharge or flow events occurred during August 2020.</i>					
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
16	Conductivity	µs/cm	Quarterly – Upon discharge	0	<i>No discharge or flow events occurred during August 2020.</i>					
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
17	Conductivity	µs/cm	Quarterly – Upon discharge	0	<i>No discharge or flow events occurred during August 2020.</i>					
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
18	Conductivity	µs/cm	Upon discharge	0	<i>No discharge or flow events occurred during August 2020.</i>					
	TOC	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
19	Conductivity	µs/cm	Quarterly – Upon discharge	0	<i>No discharge or flow events occurred during August 2020.</i>					
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
20	Conductivity	µs/cm	Quarterly – Upon discharge	0	<i>No discharge or flow events occurred during August 2020.</i>					
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
21	Conductivity	µs/cm	Quarterly – Upon discharge	0	<i>No discharge or flow events occurred during August 2020.</i>					
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
22	Conductivity	µs/cm	Quarterly – Upon discharge	0	<i>No discharge or flow events occurred during August 2020.</i>					
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
24	Conductivity	µs/cm	Quarterly – Upon discharge	0	<i>No discharge or flow events occurred during August 2020.</i>					
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
25	Conductivity	µs/cm	Quarterly – Upon discharge	0	<i>No discharge or flow events occurred during August 2020.</i>					
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						





# WHITEHAVEN COAL

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
26	Conductivity	µs/cm	Quarterly – Upon discharge	0	<i>No discharge or flow events occurred during August 2020.</i>					
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
27	Conductivity	µs/cm	Upon discharge	0	<i>No discharge or flow events occurred during August 2020.</i>					
	TOC	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 (Mine Site Sample ID)
11	TSS	mg/L	Upon discharge	0	<i>No discharge or flow events occurred during August 2020.</i>					50	N/A	SD4
	Oil & Grease	mg/L		0						10	N/A	
	pH	pH		0						6.5-8.5	N/A	
13	TSS	mg/L	Upon discharge	0	<i>No discharge or flow events occurred during August 2020.</i>					50	N/A	SD2
	Oil & Grease	mg/L		0						10	N/A	
	pH	pH		0						6.5-8.5	N/A	
18	TSS	mg/L	Upon discharge	0	<i>No discharge or flow events occurred during August 2020.</i>					50	N/A	SD7
	Oil & Grease	mg/L		0						10	N/A	
	pH	pH		0						6.5-8.5	N/A	
24	TDS	mg/L	Upon discharge	0	<i>No discharge or flow events occurred during August 2020.</i>					350	N/A	NR1
	pH	pH		0						6.5-8.5	N/A	
27	TSS	mg/L	Upon discharge	0	<i>No discharge or flow events occurred during August 2020.</i>					50	N/A	SD8
	Oil & Grease	mg/L		0						10	N/A	
	pH	pH		0						6.5-8.5	N/A	

**Table 3 – Quarterly Attended Noise Monitoring results summary table**

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	The next round of attended noise monitoring will be completed during Quarter 3 (September 2020). Results not available at time of reporting, and will be included when available. Quarter 2 results are available in the July EPL Monthly report.					<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs				
							Evening – 0.5 hrs				
							Night – 1 hr				
N6						<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs				
							Evening – 0.5 hrs				
							Night – 1 hr				
N8						<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs				
							Evening – 0.5 hrs				
							Night – 1 hr				
N9						<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs				
							Evening – 0.5 hrs				
							Night – 1 hr				

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=106922&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 2020

**Obtained Date:** 22 September 2020

**Publication Date:** 7 October 2020



**Table 1 – No Pollutant Limits Apply**

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
ND3	Deposited Matter	g/m <sup>2</sup> /month	Once a month (min. 4 weeks)	1	14 September 2020	22 September 2020	NA	NA	NA	1.9
11	Conductivity	µs/cm	Upon discharge	0	<i>No discharge or flow events occurred during September 2020.</i>					
	TOC	mg/L								
13	Conductivity	µs/cm	Upon discharge	0	<i>No discharge or flow events occurred during September 2020.</i>					
	TOC	mg/L		0						
14	Conductivity	µs/cm	Quarterly – Upon discharge	0	<i>No discharge or flow events occurred during September 2020.</i>					
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
15	Conductivity	µs/cm	Quarterly – Upon discharge	0	<i>No discharge or flow events occurred during September 2020.</i>					
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
16	Conductivity	µs/cm	Quarterly – Upon discharge	0	<i>No discharge or flow events occurred during September 2020.</i>					
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
17	Conductivity	µs/cm	Quarterly – Upon discharge	0	<i>No discharge or flow events occurred during September 2020.</i>					
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
18	Conductivity	µs/cm	Upon discharge	0	<i>No discharge or flow events occurred during September 2020.</i>					
	TOC	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
19	Conductivity	µs/cm	Quarterly – Upon discharge	0	<i>No discharge or flow events occurred during September 2020.</i>					
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
20	Conductivity	µs/cm	Quarterly – Upon discharge	0	<i>No discharge or flow events occurred during September 2020.</i>					
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
21	Conductivity	µs/cm	Quarterly – Upon discharge	0	<i>No discharge or flow events occurred during September 2020.</i>					
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
22	Conductivity	µs/cm	Quarterly – Upon discharge	0	<i>No discharge or flow events occurred during September 2020.</i>					
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
24	Conductivity	µs/cm	Quarterly – Upon discharge	0	<i>No discharge or flow events occurred during September 2020.</i>					
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
25	Conductivity	µs/cm	Quarterly – Upon discharge	0	<i>No discharge or flow events occurred during September 2020.</i>					
	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
26	Conductivity	µs/cm	Quarterly – Upon discharge	0	<i>No discharge or flow events occurred during September 2020.</i>					
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
27	Conductivity	µs/cm	Upon discharge	0	<i>No discharge or flow events occurred during September 2020.</i>					
	TOC	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 (Mine Site Sample ID)
11	TSS	mg/L	Upon discharge	0	<i>No discharge or flow events occurred during September 2020.</i>					50	N/A	SD4
	Oil & Grease	mg/L		0						10	N/A	
	pH	pH		0						6.5-8.5	N/A	
13	TSS	mg/L	Upon discharge	0	<i>No discharge or flow events occurred during September 2020.</i>					50	N/A	SD2
	Oil & Grease	mg/L		0						10	N/A	
	pH	pH		0						6.5-8.5	N/A	
18	TSS	mg/L	Upon discharge	0	<i>No discharge or flow events occurred during September 2020.</i>					50	N/A	SD7
	Oil & Grease	mg/L		0						10	N/A	
	pH	pH		0						6.5-8.5	N/A	
24	TDS	mg/L	Upon discharge	0	<i>No discharge or flow events occurred during September 2020.</i>					350	N/A	NR1
	pH	pH		0						6.5-8.5	N/A	
27	TSS	mg/L	Upon discharge	0	<i>No discharge or flow events occurred during September 2020.</i>					50	N/A	SD8
	Oil & Grease	mg/L		0						10	N/A	
	pH	pH		0						6.5-8.5	N/A	

**Table 3 – Quarterly Attended Noise Monitoring results summary table**

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	Quarter 3 attended noise monitoring was undertaken on 08-10 September. Results are not available at time of reporting, and will be including in subsequent monthly report.					<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs				
							Evening – 0.5 hrs				
							Night – 1 hr				
N6						<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs				
							Evening – 0.5 hrs				
							Night – 1 hr				
N8						<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs				
							Evening – 0.5 hrs				
							Night – 1 hr				
N9						<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs				
							Evening – 0.5 hrs				
							Night – 1 hr				



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=106922&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 2020

**Obtained Date:** 21 October 2020

**Publication Date:** 04 November 2020

**Table 1 – No Pollutant Limits Apply**

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
ND3	Deposited Matter	g/m <sup>2</sup> /month	Once a month (min. 4 weeks)	1	14 October 2020	21 October 2020	NA	NA	NA	4.4
11	Conductivity	µs/cm	Upon discharge	0	<i>No discharge or flow events occurred during October 2020.</i>					
	TOC	mg/L								
13	Conductivity	µs/cm	Upon discharge	0	<i>No discharge or flow events occurred during October 2020.</i>					
	TOC	mg/L		0						
14	Conductivity	µs/cm	Quarterly – Upon discharge	0	<i>No discharge or flow events occurred during October 2020.</i>					
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
15	Conductivity	µs/cm	Quarterly – Upon discharge	0	<i>No discharge or flow events occurred during October 2020.</i>					
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
16	Conductivity	µs/cm	Quarterly – Upon discharge	0	<i>No discharge or flow events occurred during October 2020.</i>					
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
17	Conductivity	µs/cm	Quarterly – Upon discharge	0	<i>No discharge or flow events occurred during October 2020.</i>					
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
18	Conductivity	µs/cm	Upon discharge	0	<i>No discharge or flow events occurred during October 2020.</i>					
	TOC	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
19	Conductivity	µs/cm	Quarterly – Upon discharge	0	<i>No discharge or flow events occurred during October 2020.</i>					
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
20	Conductivity	µs/cm	Quarterly – Upon discharge	0	<i>No discharge or flow events occurred during October 2020.</i>					
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
21	Conductivity	µs/cm	Quarterly – Upon discharge	0	<i>No discharge or flow events occurred during October 2020.</i>					
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
22	Conductivity	µs/cm	Quarterly – Upon discharge	0	<i>No discharge or flow events occurred during October 2020.</i>					
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
24	Conductivity	µs/cm	Quarterly – Upon discharge	0	<i>No discharge or flow events occurred during October 2020.</i>					
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
25	Conductivity	µs/cm	Quarterly – Upon discharge	0	<i>No discharge or flow events occurred during October 2020.</i>					
	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
26	Conductivity	µs/cm	Quarterly – Upon discharge	0	<i>No discharge or flow events occurred during October 2020.</i>					
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
27	Conductivity	µs/cm	Upon discharge	0	<i>No discharge or flow events occurred during October 2020.</i>					
	TOC	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 (Mine Site Sample ID)
11	TSS	mg/L	Upon discharge	0	<i>No discharge events occurred during October 2020.</i>					50	N/A	SD4
	Oil & Grease	mg/L		0						10	N/A	
	pH	pH		0						6.5-8.5	N/A	
13	TSS	mg/L	Upon discharge	0	<i>No discharge events occurred during October 2020.</i>					50	N/A	SD2
	Oil & Grease	mg/L		0						10	N/A	
	pH	pH		0						6.5-8.5	N/A	
18	TSS	mg/L	Upon discharge	0	<i>No discharge events occurred during October 2020.</i>					50	N/A	SD7
	Oil & Grease	mg/L		0						10	N/A	
	pH	pH		0						6.5-8.5	N/A	
24	TDS	mg/L	Upon discharge	0	<i>No discharge events occurred during October 2020.</i>					350	N/A	NR1
	pH	pH		0						6.5-8.5	N/A	
27	TSS	mg/L	Upon discharge	0	<i>No discharge events occurred during October 2020.</i>					50	N/A	SD8
	Oil & Grease	mg/L		0						10	N/A	
	pH	pH		0						6.5-8.5	N/A	

**Table 3 – Quarterly Attended Noise Monitoring results summary table**

EPL ID	Date	Measure d 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) <sup>2, 4</sup>	Measurement Periods	Weather Compliant Conditions (D/E/N)	Compliant <sup>1</sup> (Yes/No)	Date Obtained
N5 <sup>3</sup>	8/09/2020	I/A	<25	33	41	<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs	Y/Y/Y	Y	8/10/2020
	9/09/2020	40	I/A	I/A	I/A		Evening – 0.5 hrs	Y/Y/N	Y <sup>5</sup>	8/10/2020
	10/09/2020	I/A	N/M	I/A	I/A		Night – 1 hr	N/N/N	Y	8/10/2020
N6	8/09/2020	<25	N/M	30	31	<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs	Y/Y/Y	Y	8/10/2020
	9/09/2020	26	<30	N/M	N/M		Evening – 0.5 hrs	Y/N/N	Y	8/10/2020
	10/09/2020	<30	30	N/M	N/M		Night – 1 hr	N/N/N	Y	8/10/2020
N8 <sup>3</sup>	Monitoring at N8 to commence when surface activities approach the eastern end of the southern long wall panels. Not currently required.									
N9	8/09/2020	N/M	I/A	29	32	<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs	Y/Y/Y	Y	8/10/2020
	9/09/2020	N/M	<30	N/M	N/M		Evening – 0.5 hrs	Y/N/N	Y	8/10/2020
	10/09/2020	N/M	N/M	N/M	N/M		Night – 1 hr	N/N/N	Y	8/10/2020

I/A = Inaudible, N/M = Not Measurable

Note 1: Compliant during applicable meteorological conditions.

Note 2: A private agreement between NCOPL and the residents of N9 High Range of 40 dBA LAeq(15minute) and 50 dBA LA1(1minute) is in place. These new levels of 40 dBA LAeq(15minute) and 50 dBA LA1(1minute) replace the levels contained in condition L3 of Environment Protection Licence No 12789.

Note 3: Property is owned by Narrabri Coal Operations.

Note 4: The Noise Criteria for EPL Monitoring Location N5 (Oakleigh) does not apply as the property is not a privately owned residence (owned by Narrabri 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=106922&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 2020

**Obtained Date:** 02 December 2020

**Publication Date:** 04 December 2020



**Table 1 – No Pollutant Limits Apply**

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
ND3	Deposited Matter	g/m <sup>2</sup> /month	Once a month (min. 4 weeks)	1	13 November 2020	2 December 2020	NA	NA	NA	1.5
11	Conductivity	µs/cm	Upon discharge	0	<i>No discharge or flow events occurred during November 2020.</i>					
	TOC	mg/L								
13	Conductivity	µs/cm	Upon discharge	0	<i>No discharge or flow events occurred during November 2020.</i>					
	TOC	mg/L		0						
14	Conductivity	µs/cm	Quarterly – Upon discharge	0	<i>No discharge or flow events occurred during November 2020.</i>					
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
15	Conductivity	µs/cm	Quarterly – Upon discharge	0	<i>No discharge or flow events occurred during November 2020.</i>					
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
16	Conductivity	µs/cm	Quarterly – Upon discharge	0	<i>No discharge or flow events occurred during November 2020.</i>					
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
17	Conductivity	µs/cm	Quarterly – Upon discharge	0	<i>No discharge or flow events occurred during November 2020.</i>					
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
18	Conductivity	µs/cm	Upon discharge	0	<i>No discharge or flow events occurred during November 2020.</i>					
	TOC	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
19	Conductivity	µs/cm	Quarterly – Upon discharge	0	<i>No discharge or flow events occurred during November 2020.</i>					
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
20	Conductivity	µs/cm	Quarterly – Upon discharge	0	<i>No discharge or flow events occurred during November 2020.</i>					
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
21	Conductivity	µs/cm	Quarterly – Upon discharge	0	<i>No discharge or flow events occurred during November 2020.</i>					
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
22	Conductivity	µs/cm	Quarterly – Upon discharge	0	<i>No discharge or flow events occurred during November 2020.</i>					
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
24	Conductivity	µs/cm	Quarterly – Upon discharge	0	<i>No discharge or flow events occurred during November 2020.</i>					
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
25	Conductivity	µs/cm	Quarterly – Upon discharge	0	<i>No discharge or flow events occurred during November 2020.</i>					
	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
26	Conductivity	µs/cm	Quarterly – Upon discharge	0	<i>No discharge or flow events occurred during November 2020.</i>					
	TOC	mg/L		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						
27	Conductivity	µs/cm	Upon discharge	0	<i>No discharge or flow events occurred during November 2020.</i>					
	TOC	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 (Mine Site Sample ID)
11	TSS	mg/L	Upon discharge	0	<i>No discharge events occurred during November 2020.</i>					50	N/A	SD4
	Oil & Grease	mg/L		0						10	N/A	
	pH	pH		0						6.5-8.5	N/A	
13	TSS	mg/L	Upon discharge	0	<i>No discharge events occurred during November 2020.</i>					50	N/A	SD2
	Oil & Grease	mg/L		0						10	N/A	
	pH	pH		0						6.5-8.5	N/A	
18	TSS	mg/L	Upon discharge	0	<i>No discharge events occurred during November 2020.</i>					50	N/A	SD7
	Oil & Grease	mg/L		0						10	N/A	
	pH	pH		0						6.5-8.5	N/A	
24	TDS	mg/L	Upon discharge	0	<i>No discharge events occurred during November 2020.</i>					350	N/A	NR1
	pH	pH		0						6.5-8.5	N/A	
27	TSS	mg/L	Upon discharge	0	<i>No discharge events occurred during November 2020.</i>					50	N/A	SD8
	Oil & Grease	mg/L		0						10	N/A	
	pH	pH		0						6.5-8.5	N/A	

**Table 3 – Quarterly Attended Noise Monitoring results summary table**

EPL ID	Date	Measure d Levels – dB(A) <small>Leq 15min Day</small>	Measured Levels – dB(A) <small>Leq 15min Evening</small>	Measured Levels – dB(A) <small>Leq 15min Night</small>	Measured Levels – dB(A) <small>LA1 (1 min) Night</small>	Limit(s) <sup>2, 4</sup>	Measurement Periods	Weather Compliant Conditions (D/E/N)	Compliant <sup>1</sup> (Yes/No)	Date Obtained
N5 <sup>4</sup>	3/11/2020	I/A	I/A	I/A	I/A	<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs	N/Y/Y	Y	3/12/2020
	4/11/2020	26	I/A	26	30		Evening – 0.5 hrs	Y/Y/N	Y <sup>5</sup>	3/12/2020
	5/11/2020	<25 <sup>5</sup>	I/A	I/A	I/A		Night – 1 hr	Y <sup>5</sup> /N/N	Y	3/12/2020
N6	3/11/2020	I/A	N/M <sup>5</sup>	<25	31	<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs	N/Y <sup>5</sup> /N	Y	3/12/2020
	4/11/2020	I/A	I/A	25	27		Evening – 0.5 hrs	Y/Y/N	Y	3/12/2020
	5/11/2020	N/M <sup>5</sup>	26	27	29		Night – 1 hr	Y <sup>5</sup> /N/N	Y	3/12/2020
N8 <sup>3</sup>	Monitoring at N8 to commence when surface activities approach the eastern end of the southern long wall panels. Not currently required.									
N9 <sup>3</sup>	3/11/2020	26	<25	28	34	<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs	N/Y/N	Y	3/12/2020
	4/11/2020	I/A <sup>5</sup>	I/A	I/A	I/A		Evening – 0.5 hrs	Y <sup>5</sup> /Y/N	Y	3/12/2020
	5/11/2020	I/A	25	26	28		Night – 1 hr	N/N/Y	Y	3/12/2020

Note 1: Compliant during applicable meteorological conditions.

Note 2: A private agreement between NCOPL and the residents of N1 Bow Hills of 50 dBA LAeq(15minute) is in place. This new level of 50 dBA LAeq(15minute) replaces the levels identified in Conditions 1-3, Schedule 4 of PA 08\_0144 Mod 2 and the identical limits contained in condition L3 of Environment Protection Licence No 12789

Note 3: A private agreement between NCOPL and the residents of N9 High Range of 40 dBA LAeq(15minute) and 50 dBA LA1(1minute) is in place. These new levels of 40 dBA LAeq(15minute) and 50 dBA LA1(1minute) replace the levels identified in Conditions 1-3, Schedule 4 of PA 08\_0144 Mod 2 and the identical limits contained in condition L3 of Environment Protection Licence No 12789

Note 4: Property is owned by Narrabri Coal Operations

Note 5: Weather not compliant for all individual 15 minute measurements at this location. Noise levels presented are the highest measured noise level under compliant weather conditions over the monitoring period.



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=106922&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 2020

**Obtained Date:** 08 January 2020

**Publication Date:** 14 January 2021

**Table 1 – No Pollutant Limits Apply**

EPL	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
ND3	Deposited Matter	g/m <sup>2</sup> /month	Lab Analysis	Once a month (min. 4 weeks)	1	14/12/20	1712/20	NA	NA	NA	3.2
11	Conductivity	µs/cm	In situ	Upon discharge (within 12 hours)	0	No discharge occurred during December 2020 (SD4).					
	TOC	mg/L	Lab Analysis								
13	Conductivity	µs/cm	In situ	Upon discharge (within 12 hours)	0	No discharge occurred during December 2020 (SD2).					
	TOC	mg/L	Lab Analysis		0						
14	Conductivity	µs/cm	In situ	Quarterly, Upon discharge & Flow Event	1	22/12/20	6/01/21	NA	NA	NA	116
	TOC	mg/L	Lab Analysis		1	22/12/20	6/01/21	NA	NA	NA	11
	Oil & Grease	mg/L	Lab Analysis		1	22/12/20	6/01/21	NA	NA	NA	<5
	pH	pH	In situ		1	22/12/20	6/01/21	NA	NA	NA	7.3
	TSS	mg/L	Lab Analysis		1	22/12/20	6/01/21	NA	NA	NA	78
15	Conductivity	µs/cm	In situ	Quarterly, Upon discharge & Flow Event	1	22/12/20	6/01/21	NA	NA	NA	272
	TOC	mg/L	Lab Analysis		1	22/12/20	6/01/21	NA	NA	NA	10
	Oil & Grease	mg/L	Lab Analysis		1	22/12/20	6/01/21	NA	NA	NA	<5
	pH	pH	In situ		1	22/12/20	6/01/21	NA	NA	NA	7.4
	TSS	mg/L	Lab Analysis		1	22/12/20	6/01/21	NA	NA	NA	263
16	Conductivity	µs/cm	In situ	Quarterly, Upon discharge & Flow Event	1	22/12/20	6/01/21	NA	NA	NA	90
	TOC	mg/L	Lab Analysis		1	22/12/20	6/01/21	NA	NA	NA	12
	Oil & Grease	mg/L	Lab Analysis		1	22/12/20	6/01/21	NA	NA	NA	<5
	pH	pH	In situ		1	22/12/20	6/01/21	NA	NA	NA	7.3
	TSS	mg/L	Lab Analysis		1	22/12/20	6/01/21	NA	NA	NA	20
17	Conductivity	µs/cm	In situ	Quarterly, Upon discharge & Flow Event	1	22/12/20	6/01/21	NA	NA	NA	125
	TOC	mg/L	Lab Analysis		1	22/12/20	6/01/21	NA	NA	NA	12
	Oil & Grease	mg/L	Lab Analysis		1	22/12/20	6/01/21	NA	NA	NA	<5
	pH	pH	In situ		1	22/12/20	6/01/21	NA	NA	NA	7.2

EPL	Pollutant	Units of Measure	Sample Method	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	Lab Analysis		1	22/12/20	6/01/21	NA	NA	NA	28
18	Conductivity	µs/cm	In Situ	Upon discharge (within 12 hours)	0	N/A (SD7 is an approved sediment dam for future disturbance area, not yet constructed)					
	TOC	mg/L	Lab Analysis		0						
19	Conductivity	µs/cm	In situ	Quarterly, Upon discharge & Flow Event	2	4/12/20	15/12/20	NA	NA	NA	152
						22/12/20	6/01/21	NA	NA	NA	145
	TOC	mg/L	Lab Analysis		2	4/12/20	15/12/20	NA	NA	NA	22
						22/12/20	6/01/21	NA	NA	NA	9
	Oil & Grease	mg/L	Lab Analysis		2	4/12/20	15/12/20	NA	NA	NA	<5
						22/12/20	6/01/21	NA	NA	NA	<5
	pH	pH	In situ		2	4/12/20	15/12/20	NA	NA	NA	7.4
						22/12/20	6/01/21	NA	NA	NA	7.5
TSS	mg/L	Lab Analysis	2	4/12/20	15/12/20	NA	NA	NA	131		
				22/12/20	6/01/21	NA	NA	NA	143		
20	Conductivity	µs/cm	In situ	Quarterly, Upon discharge & Flow Event	2	4/12/20	15/12/20	NA	NA	NA	250
						22/12/20	6/01/21	NA	NA	NA	140
	TOC	mg/L	Lab Analysis		2	4/12/20	15/12/20	NA	NA	NA	23
						22/12/20	6/01/21	NA	NA	NA	9
	Oil & Grease	mg/L	Lab Analysis		2	4/12/20	15/12/20	NA	NA	NA	<5
						22/12/20	6/01/21	NA	NA	NA	<5
	pH	pH	In situ		2	4/12/20	15/12/20	NA	NA	NA	7.6
						22/12/20	6/01/21	NA	NA	NA	7.5
TSS	mg/L	Lab Analysis	2	4/12/20	15/12/20	NA	NA	NA	266		
				22/12/20	6/01/21	NA	NA	NA	126		
21	Conductivity	µs/cm	In situ	Quarterly, Upon discharge & Flow Event	1	22/12/20	6/01/21	NA	NA	NA	75
	TOC	mg/L	Lab Analysis		1	22/12/20	6/01/21	NA	NA	NA	11
	Oil & Grease	mg/L	Lab Analysis		1	22/12/20	6/01/21	NA	NA	NA	<5
	pH	pH	In situ		1	22/12/20	6/01/21	NA	NA	NA	7.7
	TSS	mg/L	Lab Analysis		1	22/12/20	6/01/21	NA	NA	NA	204
22	Conductivity	µs/cm	In situ		1	22/12/20	6/01/21	NA	NA	NA	235

EPL	Pollutant	Units of Measure	Sample Method	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	Lab Analysis	Quarterly, Upon discharge & Flow Event	1	22/12/20	6/01/21	NA	NA	NA	14
	Oil & Grease	mg/L	Lab Analysis		1	22/12/20	6/01/21	NA	NA	NA	<5
	pH	pH	In situ		1	22/12/20	6/01/21	NA	NA	NA	7.5
	TSS	mg/L	Lab Analysis		1	22/12/20	6/01/21	NA	NA	NA	101
24	pH	pH	In situ	Upon Discharge (within 4 hrs)	0	N/A Namoi River discharge point (NR1) not yet required / not constructed.					
	TDS	mg/L	Lab Analysis		0						
25	pH	pH	In situ	Upon Discharge (within 4 hrs)	0	N/A Namoi River discharge point upstream monitoring (NRUS). No discharge occurring.					
	TDS	mg/L	Lab Analysis		0						
26	pH	pH	In situ	Upon Discharge (within 4 hrs)	0	N/A Namoi River discharge point downstream monitoring (NRDS). No discharge occurring.					
	TDS	mg/L	Lab Analysis		0						
27	Conductivity	µs/cm	In situ	Upon discharge (within 12 hours)	0	No discharge occurred during December 2020 (SD7).					
	TOC	mg/L	Lab Analysis		0						
28	Conductivity	µs/cm	In situ	Quarterly	0	Bore P28 was reported as dry during monitoring event on 18/12/2020.					
	pH	pH	In situ		0						
	SWL	-	In situ		0						
	Bicarbonate	mg/L	Lab Analysis		0						
	Calcium	mg/L	Lab Analysis		0						
	Carbonate	mg/L	Lab Analysis		0						
	Chloride	mg/L	Lab Analysis		0						
	Magnesium	mg/L	Lab Analysis		0						
	Potassium	mg/L	Lab Analysis		0						
	Sodium	mg/L	Lab Analysis		0						
	Sulfate	mg/L	Lab Analysis		0						
29	Conductivity	µs/cm	In situ	Quarterly	1	18/12/20	08/01/2021	NA	NA	NA	10831
	pH	pH	In situ		1	18/12/20	08/01/2021	NA	NA	NA	7.71
	SWL	mbtoc	In situ		1	18/12/20	08/01/2021	NA	NA	NA	5.8
	Bicarbonate	mg/L	Lab Analysis		1	18/12/20	08/01/2021	NA	NA	NA	768

EPL	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
	Calcium	mg/L	Lab Analysis		1	18/12/20	08/01/2021	NA	NA	NA	46
	Carbonate	mg/L	Lab Analysis		1	18/12/20	08/01/2021	NA	NA	NA	<1
	Chloride	mg/L	Lab Analysis		1	18/12/20	08/01/2021	NA	NA	NA	3010
	Magnesium	mg/L	Lab Analysis		1	18/12/20	08/01/2021	NA	NA	NA	108
	Potassium	mg/L	Lab Analysis		1	18/12/20	08/01/2021	NA	NA	NA	7
	Sodium	mg/L	Lab Analysis		1	18/12/20	08/01/2021	NA	NA	NA	1960
	Sulfate	mg/L	Lab Analysis		1	18/12/20	08/01/2021	NA	NA	NA	497
30	Conductivity	µs/cm	In situ	Quarterly	1	18/12/20	08/01/2021	NA	NA	NA	21959
	pH	pH	In situ			18/12/20	08/01/2021	NA	NA	NA	7.09
	SWL	mbtoc	In situ		1	18/12/20	08/01/2021	NA	NA	NA	13.92
	Bicarbonate	mg/L	Lab Analysis		1	18/12/20	08/01/2021	NA	NA	NA	768
	Calcium	mg/L	Lab Analysis		1	18/12/20	08/01/2021	NA	NA	NA	194
	Carbonate	mg/L	Lab Analysis		1	18/12/20	08/01/2021	NA	NA	NA	<1
	Chloride	mg/L	Lab Analysis		1	18/12/20	08/01/2021	NA	NA	NA	6230
	Magnesium	mg/L	Lab Analysis		1	18/12/20	08/01/2021	NA	NA	NA	452
	Potassium	mg/L	Lab Analysis		1	18/12/20	08/01/2021	NA	NA	NA	17
	Sodium	mg/L	Lab Analysis		1	18/12/20	08/01/2021	NA	NA	NA	3750
	Sulfate	mg/L	Lab Analysis		1	18/12/20	08/01/2021	NA	NA	NA	1580
31	Conductivity	µs/cm	In situ	Quarterly	1	18/12/20	08/01/2021	NA	NA	NA	7283
	pH	pH	In situ		1	18/12/20	08/01/2021	NA	NA	NA	7.42
	SWL	mbtoc	In situ			18/12/20	08/01/2021	NA	NA	NA	16.96
	Bicarbonate	mg/L	Lab Analysis		1	18/12/20	08/01/2021	NA	NA	NA	919
	Calcium	mg/L	Lab Analysis		1	18/12/20	08/01/2021	NA	NA	NA	90
	Carbonate	mg/L	Lab Analysis		1	18/12/20	08/01/2021	NA	NA	NA	<1
	Chloride	mg/L	Lab Analysis		1	18/12/20	08/01/2021	NA	NA	NA	1660
	Magnesium	mg/L	Lab Analysis		1	18/12/20	08/01/2021	NA	NA	NA	153
	Potassium	mg/L	Lab Analysis		1	18/12/20	08/01/2021	NA	NA	NA	14
	Sodium	mg/L	Lab Analysis		1	18/12/20	08/01/2021	NA	NA	NA	1170
	Sulfate	mg/L	Lab Analysis		1	18/12/20	08/01/2021	NA	NA	NA	372
32	Conductivity	µs/cm	In situ	Quarterly	1	18/12/20	08/01/2021	NA	NA	NA	2183
	pH	pH	In situ		1	18/12/20	08/01/2021	NA	NA	NA	8.38



EPL	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
	SWL	mbtoc	In situ		1	18/12/20	08/01/2021	NA	NA	NA	8.95
	Bicarbonate	mg/L	Lab Analysis			18/12/20	08/01/2021	NA	NA	NA	969
	Calcium	mg/L	Lab Analysis		1	18/12/20	08/01/2021	NA	NA	NA	1
	Carbonate	mg/L	Lab Analysis		1	18/12/20	08/01/2021	NA	NA	NA	39
	Chloride	mg/L	Lab Analysis		1	18/12/20	08/01/2021	NA	NA	NA	359
	Magnesium	mg/L	Lab Analysis		1	18/12/20	08/01/2021	NA	NA	NA	16
	Potassium	mg/L	Lab Analysis		1	18/12/20	08/01/2021	NA	NA	NA	<1
	Sodium	mg/L	Lab Analysis		1	18/12/20	08/01/2021	NA	NA	NA	764
	Sulfate	mg/L	Lab Analysis		1	18/12/20	08/01/2021	NA	NA	NA	276
33	Conductivity	µs/cm	In situ	Quarterly	0	Bore P33 was reported as dry during monitoring event on 18/12/2020.					
	pH	pH	In situ		0						
	SWL	mbtoc	In situ		0						
	Bicarbonate	mg/L	Lab Analysis								
	Calcium	mg/L	Lab Analysis		0						
	Carbonate	mg/L	Lab Analysis		0						
	Chloride	mg/L	Lab Analysis		0						
	Magnesium	mg/L	Lab Analysis		0						
	Potassium	mg/L	Lab Analysis		0						
	Sodium	mg/L	Lab Analysis		0						
	Sulfate	mg/L	Lab Analysis		0						
34	Conductivity	µs/cm	In situ	Quarterly	0	Bore P34 was reported as dry during monitoring event on 18/12/2020.					
	pH	pH	In situ		0						
	SWL	mbtoc	In situ								
	Bicarbonate	mg/L	Lab Analysis		0						
	Calcium	mg/L	Lab Analysis		0						
	Carbonate	mg/L	Lab Analysis		0						
	Chloride	mg/L	Lab Analysis		0						
	Magnesium	mg/L	Lab Analysis		0						
	Potassium	mg/L	Lab Analysis		0						
	Sodium	mg/L	Lab Analysis		0						
	Sulfate	mg/L	Lab Analysis		0						

EPL	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
35	Conductivity	µs/cm	In situ	Quarterly	1	18/12/20	08/01/2021	NA	NA	NA	10989
	pH	pH	In situ		1	18/12/20	08/01/2021	NA	NA	NA	6.89
	SWL	mbtoc	In situ		1	18/12/20	08/01/2021	NA	NA	NA	19.01
	Bicarbonate	mg/L	Lab Analysis			18/12/20	08/01/2021	NA	NA	NA	5130
	Calcium	mg/L	Lab Analysis		1	18/12/20	08/01/2021	NA	NA	NA	78
	Carbonate	mg/L	Lab Analysis		1	18/12/20	08/01/2021	NA	NA	NA	<1
	Chloride	mg/L	Lab Analysis		1	18/12/20	08/01/2021	NA	NA	NA	1130
	Magnesium	mg/L	Lab Analysis		1	18/12/20	08/01/2021	NA	NA	NA	93
	Potassium	mg/L	Lab Analysis		1	18/12/20	08/01/2021	NA	NA	NA	60
	Sodium	mg/L	Lab Analysis		1	18/12/20	08/01/2021	NA	NA	NA	2680
	Sulfate	mg/L	Lab Analysis		1	18/12/20	08/01/2021	NA	NA	NA	89

**Table 2 - Pollutant Limits Apply (Water)**

EPL ID	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Max Value	EPL Limit	Exceedance (Yes/No)	Comments (Mine Site Sample ID)
11	TSS	mg/L	Lab Analysis	Upon discharge	0	No discharge occurred during December 2020.					50	N/A	SD4
	Oil & Grease	mg/L	Lab Analysis		0						10	N/A	
	pH	pH	In situ		0						6.5-8.5	N/A	
13	TSS	mg/L	Lab Analysis	Upon discharge	0	No discharge occurred during December 2020.					50	N/A	SD2
	Oil & Grease	mg/L	Lab Analysis		0						10	N/A	
	pH	pH	In situ		0						6.5-8.5	N/A	
18	TSS	mg/L	Lab Analysis	Upon discharge	0	N/A (SD7 is an approved sediment dam for future disturbance area, not yet constructed)					50	N/A	SD7
	Oil & Grease	mg/L	Lab Analysis		0						10	N/A	
	pH	pH	In situ		0						6.5-8.5	N/A	
24	TDS	mg/L	Lab Analysis	Upon discharge	0	N/A Namoi River discharge point (NR1) not yet required / not constructed.					350	N/A	NR1
	pH	pH	In situ		0						6.5-8.5	N/A	
27	TSS	mg/L	Lab Analysis	Upon discharge	0	No discharge occurred during December 2020.					50	N/A	SD8
	Oil & Grease	mg/L	Lab Analysis		0						10	N/A	
	pH	pH	In situ		0						6.5-8.5	N/A	

**Table 3 – Quarterly Attended Noise Monitoring results summary table**

**Note:** Quarterly attended noise monitoring was not required during December 2020.

EPL ID	Date	Measure d 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) <sup>2, 4</sup>	Measurement Periods	Weather Compliant Conditions (D/E/N)	Compliant <sup>1</sup> (Yes/No)	Date Obtained
N5						<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs			
							Evening – 0.5 hrs			
							Night – 1 hr			
N6						<u>Day, Evening &amp; 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 long wall panels. Not currently required.									
N9						<u>Day, Evening &amp; Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs			
							Evening – 0.5 hrs			
							Night – 1 hr			



Figure 1 – EPL 12789 Monitoring Locations

