



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: January 2022

Obtained Date: 27 January 2022

Publication Date: 10/02/2022

Table 1 – No Pollutant Limits Apply

EPL	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Dates Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
ND3	Deposited Matter	g/m ² /month	Lab Analysis	Once a month (min. 4 weeks)	1	12/01/2022	27/01/2022	NA	NA	NA	0.5
11	Conductivity	µs/cm	In situ	Upon discharge (within 12 hours)	No discharge occurred during January 2022 (SD4)						
	TOC	mg/L	Lab Analysis								
13	Conductivity	µs/cm	In situ	Upon discharge (within 12 hours)	No discharge occurred during January 2022 (SD2)						
	TOC	mg/L	Lab Analysis								
14	Conductivity	µs/cm	In situ	Quarterly, Upon discharge & Flow Event	No flow events and/or mine discharge occurred during January 2022 (KC1US)						
	TOC	mg/L	Lab Analysis								
	Oil & Grease	mg/L	Lab Analysis								
	pH	pH	In situ								
	TSS	mg/L	Lab Analysis								
15	Conductivity	µs/cm	In situ	Quarterly, Upon discharge & Flow Event	No flow events and/or mine discharge occurred during January 2022 (KC1DS)						
	TOC	mg/L	Lab Analysis								
	Oil & Grease	mg/L	Lab Analysis								
	pH	pH	In situ								
	TSS	mg/L	Lab Analysis								

16	Conductivity	µs/cm	In situ	Quarterly, Upon discharge & Flow Event	<i>No flow events and/or mine discharge occurred during January 2022 (KC2US)</i>
	TOC	mg/L	Lab Analysis		
	Oil & Grease	mg/L	Lab Analysis		
	pH	pH	In situ		
	TSS	mg/L	Lab Analysis		
17	Conductivity	µs/cm	In situ	Quarterly, Upon discharge & Flow Event	<i>No flow events and/or mine discharge occurred during January 2022 (KC2DS)</i>
	TOC	mg/L	Lab Analysis		
	Oil & Grease	mg/L	Lab Analysis		
	pH	pH	In situ		
	TSS	mg/L	Lab Analysis		
18	Conductivity	µs/cm	In Situ	Upon discharge (within 12 hours)	<i>Not currently constructed (SD7).</i>
	TOC	mg/L	Lab Analysis		
19	Conductivity	µs/cm	In situ	Quarterly, Upon discharge & Flow Event	<i>No flow events and/or mine discharge occurred during January 2022 (KCUS)</i>
	TOC	mg/L	Lab Analysis		
	Oil & Grease	mg/L	Lab Analysis		
	pH	pH	In situ		
	TSS	mg/L	Lab Analysis		
20	Conductivity	µs/cm	In situ	Quarterly, Upon discharge & Flow Event	<i>No flow events and/or mine discharge occurred during January 2022 (KCDS)</i>
	TOC	mg/L	Lab Analysis		
	Oil & Grease	mg/L	Lab Analysis		
	pH	pH	In situ		

	TSS	mg/L	Lab Analysis			
21	Conductivity	µs/cm	In situ	Quarterly, Upon discharge & Flow Event	<i>No flow events and/or mine discharge occurred during January 2022 (PCa)</i>	
	TOC	mg/L	Lab Analysis			
	Oil & Grease	mg/L	Lab Analysis			
	pH	pH	In situ			
	TSS	mg/L	Lab Analysis			
22	Conductivity	µs/cm	In situ	Quarterly, Upon discharge & Flow Event	<i>No flow events and/or mine discharge occurred during January 2022 (PC1)</i>	
	TOC	mg/L	Lab Analysis			
	Oil & Grease	mg/L	Lab Analysis			
	pH	pH	In situ			
	TSS	mg/L	Lab Analysis			
24	pH	pH	In situ	Upon Discharge (within 4 hrs)	0	Namoi discharge point – Not constructed or currently utilised (NR1).
	TDS	mg/L	Lab Analysis		0	
25	pH	pH	In situ	Upon Discharge (within 4 hrs)	0	Namoi discharge point – Not constructed or currently utilised (NRUS).
	TDS	mg/L	Lab Analysis		0	
26	pH	pH	In situ	Upon Discharge (within 4 hrs)	0	Namoi discharge point – Not constructed or currently utilised (NRDS).
	TDS	mg/L	Lab Analysis		0	
28	Conductivity	µs/cm	In situ	Quarterly	0	<i>Not scheduled for sampling January 2022</i>
	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	0	Not scheduled for sampling January 2022
	pH	pH	In situ		0	
	SWL	mbtoc	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	
30	Conductivity	µs/cm	In situ	Quarterly	0	
	pH	pH	In situ		0	



	SWL	mbtoc	In situ		0	Not scheduled for sampling January 2022
	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	
31	Conductivity	µs/cm	In situ	Quarterly	0	Not scheduled for sampling January 2022
	pH	pH	In situ		0	
	SWL	mbtoc	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	
32	Conductivity	µs/cm	In situ	Quarterly	0	Not scheduled for sampling January 2022
	pH	pH	In situ		0	
	SWL	mbtoc	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	
33	Conductivity	µs/cm	In situ	Quarterly	0	Not scheduled for sampling January 2022
	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	Not scheduled for sampling January 2022
	pH	pH	In situ		0	
	SWL	mbtoc	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	
35	Conductivity	µs/cm	In situ	Quarterly	0	Not scheduled for sampling January 2022
	pH	pH	In situ		0	
	SWL	mbtoc	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	

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 January 2022					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 January 2022					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	Not currently 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	Namoi discharge point – Not constructed or currently utilised.					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 January 2022					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^a

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 (D/E/N)	Compliant (Yes/No)	Date Obtained
N5 ^c	14/12/2021	I/A	I/A	I/A	I/A	<u>Day, Evening & Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs	Y/N/Y	Yes	24/01/2022
	15/12/2021	I/A	I/A	I/A	I/A		Evening – 0.5 hrs	Y/Y/Y	Yes	24/01/2022
	16/12/2021	33	I/A	25	28		Night – 1 hr	Y/Y/N	Yes	24/01/2022
N6	14/12/2021	I/A	I/A	I/A	I/A	<u>Day, Evening & Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs	Y/N/Y	Yes	24/01/2022
	15/12/2021	I/A	I/A	I/A	I/A		Evening – 0.5 hrs	Y/Y/N	Yes	24/01/2022
	16/12/2021	I/A	I/A	I/A	I/A		Night – 1 hr	Y/Y/N	Yes	24/01/2022
N8	14/12/2021	I/A	I/A	I/A	I/A	<u>Day, Evening & Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs	Y/N/N	Yes	24/01/2022
	15/12/2021	I/A	I/A	I/A	I/A		Evening – 0.5 hrs	Y/Y/Y	Yes	24/01/2022
	16/12/2021	I/A	I/A	23	24		Night – 1 hr	Y/N/N	Yes	24/01/2022
N9	14/12/2021	N/M	<25	I/A	I/A	<u>Day, Evening & Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs	Y/N/N	Yes	24/01/2022
	15/12/2021	I/A	I/A	I/A	I/A		Evening – 0.5 hrs	Y/Y/N	Yes	24/01/2022
	16/12/2021	I/A	I/A	I/A	I/A		Night – 1 hr	Y/Y/N	Yes	24/01/2022

^a Noise results for Quarter 4 were not available for at time of report publication in 2021.

^c Property is owned by Narrabri Coal Operations

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: February 2022

Obtained Date: 24/02/2022

Publication Date: 14/03/2022

Table 1 – No Pollutant Limits Apply

EPL	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Dates Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
ND3	Deposited Matter	g/m ² /month	Lab Analysis	Once a month (min. 4 weeks)	1	10/02/2022	24/02/2022	NA	NA	NA	0.7
11	Conductivity	µs/cm	In situ	Upon discharge (within 12 hours)	<i>No discharge occurred during February 2022 (SD4)</i>						
	TOC	mg/L	Lab Analysis								
13	Conductivity	µs/cm	In situ	Upon discharge (within 12 hours)	<i>No discharge occurred during February 2022 (SD2)</i>						
	TOC	mg/L	Lab Analysis								
14	Conductivity	µs/cm	In situ	Quarterly, Upon discharge & Flow Event	<i>No flow events and/or mine discharge occurred during February 2022 (KC1US)</i>						
	TOC	mg/L	Lab Analysis								
	Oil & Grease	mg/L	Lab Analysis								
	pH	pH	In situ								
	TSS	mg/L	Lab Analysis								
15	Conductivity	µs/cm	In situ	Quarterly, Upon discharge & Flow Event	<i>No flow events and/or mine discharge occurred during February 2022 (KC1DS)</i>						
	TOC	mg/L	Lab Analysis								
	Oil & Grease	mg/L	Lab Analysis								
	pH	pH	In situ								
	TSS	mg/L	Lab Analysis								

16	Conductivity	µs/cm	In situ	Quarterly, Upon discharge & Flow Event	<i>No flow events and/or mine discharge occurred during February 2022 (KC2US)</i>
	TOC	mg/L	Lab Analysis		
	Oil & Grease	mg/L	Lab Analysis		
	pH	pH	In situ		
	TSS	mg/L	Lab Analysis		
17	Conductivity	µs/cm	In situ	Quarterly, Upon discharge & Flow Event	<i>No flow events and/or mine discharge occurred during February 2022 (KC2DS)</i>
	TOC	mg/L	Lab Analysis		
	Oil & Grease	mg/L	Lab Analysis		
	pH	pH	In situ		
	TSS	mg/L	Lab Analysis		
18	Conductivity	µs/cm	In Situ	Upon discharge (within 12 hours)	<i>Not currently constructed (SD7).</i>
	TOC	mg/L	Lab Analysis		
19	Conductivity	µs/cm	In situ	Quarterly, Upon discharge & Flow Event	<i>No flow events and/or mine discharge occurred during February 2022 (KCUS)</i>
	TOC	mg/L	Lab Analysis		
	Oil & Grease	mg/L	Lab Analysis		
	pH	pH	In situ		
	TSS	mg/L	Lab Analysis		
20	Conductivity	µs/cm	In situ	Quarterly, Upon discharge & Flow Event	<i>No flow events and/or mine discharge occurred during February 2022 (KCDS)</i>
	TOC	mg/L	Lab Analysis		
	Oil & Grease	mg/L	Lab Analysis		
	pH	pH	In situ		

	TSS	mg/L	Lab Analysis			
21	Conductivity	µs/cm	In situ	Quarterly, Upon discharge & Flow Event	<i>No flow events and/or mine discharge occurred during February 2022 (PCa)</i>	
	TOC	mg/L	Lab Analysis			
	Oil & Grease	mg/L	Lab Analysis			
	pH	pH	In situ			
	TSS	mg/L	Lab Analysis			
22	Conductivity	µs/cm	In situ	Quarterly, Upon discharge & Flow Event	<i>No flow events and/or mine discharge occurred during February 2022 (PC1)</i>	
	TOC	mg/L	Lab Analysis			
	Oil & Grease	mg/L	Lab Analysis			
	pH	pH	In situ			
	TSS	mg/L	Lab Analysis			
24	pH	pH	In situ	Upon Discharge (within 4 hrs)	0	<i>Namoi discharge point – Not constructed or currently utilised (NR1).</i>
	TDS	mg/L	Lab Analysis		0	
25	pH	pH	In situ	Upon Discharge (within 4 hrs)	0	<i>Namoi discharge point – Not constructed or currently utilised (NRUS).</i>
	TDS	mg/L	Lab Analysis		0	
26	pH	pH	In situ	Upon Discharge (within 4 hrs)	0	<i>Namoi discharge point – Not constructed or currently utilised (NRDS).</i>
	TDS	mg/L	Lab Analysis		0	
28	Conductivity	µs/cm	In situ	Quarterly	0	<i>Not scheduled for sampling February 2022</i>
	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	0	Not scheduled for sampling February 2022
	pH	pH	In situ		0	
	SWL	mbtoc	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	
30	Conductivity	µs/cm	In situ	Quarterly	0	
	pH	pH	In situ		0	



	SWL	mbtoc	In situ		0	Not scheduled for sampling February 2022
	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	
31	Conductivity	µs/cm	In situ	Quarterly	0	Not scheduled for sampling February 2022
	pH	pH	In situ		0	
	SWL	mbtoc	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	
32	Conductivity	µs/cm	In situ	Quarterly	0	Not scheduled for sampling February 2022
	pH	pH	In situ		0	
	SWL	mbtoc	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	
33	Conductivity	µs/cm	In situ	Quarterly	0	Not scheduled for sampling February 2022
	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	Not scheduled for sampling February 2022
	pH	pH	In situ		0	
	SWL	mbtoc	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	
35	Conductivity	µs/cm	In situ	Quarterly	0	Not scheduled for sampling February 2022
	pH	pH	In situ		0	
	SWL	mbtoc	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	

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	<i>No discharge occurred during February 2022</i>					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	<i>No discharge occurred during February 2022</i>					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	<i>Not currently constructed.</i>					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	<i>Namoi discharge point – Not constructed or currently utilised.</i>					350	N/A	NR1
	pH	pH	In situ		0						6.5-8.5	N/A	
27	TSS	mg/L	Lab Analysis	Upon discharge	0	<i>No discharge occurred during February 2022</i>					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

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 (D/E/N)	Compliant (Yes/No)	Date Obtained
N5	-					<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	-					<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	-					<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			
N9	-					<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			

Note: Quarterly attended noise monitoring is scheduled for March. Results will be published in the March EPL report.

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: March 2022

Obtained Date: 8/04/2022

Publication Date: 12/04/2022

Table 1 – No Pollutant Limits Apply

EPL	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Dates Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
ND3	Deposited Matter	g/m ² /month	Lab Analysis	Once a month (min. 4 weeks)	1	10/03/2022	29/03/2022	NA	NA	NA	0.2
11	Conductivity	µs/cm	In situ	Upon discharge (within 12 hours)	<i>No discharge occurred during March 2022 (SD4)</i>						
	TOC	mg/L	Lab Analysis								
13	Conductivity	µs/cm	In situ	Upon discharge (within 12 hours)	<i>No discharge occurred during March 2022 (SD2)</i>						
	TOC	mg/L	Lab Analysis								
14	Conductivity	µs/cm	In situ	Quarterly, Upon discharge & Flow Event	<i>No flow events and/or mine discharge occurred during March 2022 (KC1US)</i>						
	TOC	mg/L	Lab Analysis								
	Oil & Grease	mg/L	Lab Analysis								
	pH	pH	In situ								
	TSS	mg/L	Lab Analysis								
15	Conductivity	µs/cm	In situ	Quarterly, Upon discharge & Flow Event	<i>No flow events and/or mine discharge occurred during March 2022 (KC1DS)</i>						
	TOC	mg/L	Lab Analysis								
	Oil & Grease	mg/L	Lab Analysis								
	pH	pH	In situ								
	TSS	mg/L	Lab Analysis								

16	Conductivity	µs/cm	In situ	Quarterly, Upon discharge & Flow Event	<i>No flow events and/or mine discharge occurred during March 2022 (KC2US)</i>
	TOC	mg/L	Lab Analysis		
	Oil & Grease	mg/L	Lab Analysis		
	pH	pH	In situ		
	TSS	mg/L	Lab Analysis		
17	Conductivity	µs/cm	In situ	Quarterly, Upon discharge & Flow Event	<i>No flow events and/or mine discharge occurred during March 2022 (KC2DS)</i>
	TOC	mg/L	Lab Analysis		
	Oil & Grease	mg/L	Lab Analysis		
	pH	pH	In situ		
	TSS	mg/L	Lab Analysis		
18	Conductivity	µs/cm	In Situ	Upon discharge (within 12 hours)	<i>Not currently constructed (SD7).</i>
	TOC	mg/L	Lab Analysis		
19	Conductivity	µs/cm	In situ	Quarterly, Upon discharge & Flow Event	<i>No flow events and/or mine discharge occurred during March 2022 (KCUS)</i>
	TOC	mg/L	Lab Analysis		
	Oil & Grease	mg/L	Lab Analysis		
	pH	pH	In situ		
	TSS	mg/L	Lab Analysis		
20	Conductivity	µs/cm	In situ	Quarterly, Upon discharge & Flow Event	<i>No flow events and/or mine discharge occurred during March 2022 (KCDS)</i>
	TOC	mg/L	Lab Analysis		
	Oil & Grease	mg/L	Lab Analysis		
	pH	pH	In situ		

	TSS	mg/L	Lab Analysis			
21	Conductivity	µs/cm	In situ	Quarterly, Upon discharge & Flow Event	<i>No flow events and/or mine discharge occurred during March 2022 (PCa)</i>	
	TOC	mg/L	Lab Analysis			
	Oil & Grease	mg/L	Lab Analysis			
	pH	pH	In situ			
	TSS	mg/L	Lab Analysis			
22	Conductivity	µs/cm	In situ	Quarterly, Upon discharge & Flow Event	<i>No flow events and/or mine discharge occurred during March 2022 (PC1)</i>	
	TOC	mg/L	Lab Analysis			
	Oil & Grease	mg/L	Lab Analysis			
	pH	pH	In situ			
	TSS	mg/L	Lab Analysis			
24	pH	pH	In situ	Upon Discharge (within 4 hrs)	0	<i>Namoi discharge point – Not constructed or currently utilised (NR1).</i>
	TDS	mg/L	Lab Analysis		0	
25	pH	pH	In situ	Upon Discharge (within 4 hrs)	0	<i>Namoi discharge point – Not constructed or currently utilised (NRUS).</i>
	TDS	mg/L	Lab Analysis		0	
26	pH	pH	In situ	Upon Discharge (within 4 hrs)	0	<i>Namoi discharge point – Not constructed or currently utilised (NRDS).</i>
	TDS	mg/L	Lab Analysis		0	
28	Conductivity	µs/cm	In situ	Quarterly	0	<i>Bore was dry during scheduled sampling</i>
	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	30/03/2022	8/04/2022	-	-	-	15045
	pH	pH	In situ		1			-	-	-	7.05
	SWL	mbtoc	In situ		1			-	-	-	4.97
	Bicarbonate	mg/L	Lab Analysis		1			-	-	-	548
	Calcium	mg/L	Lab Analysis		1			-	-	-	96
	Carbonate	mg/L	Lab Analysis		1			-	-	-	<1
	Chloride	mg/L	Lab Analysis		1			-	-	-	4810
	Magnesium	mg/L	Lab Analysis		1			-	-	-	250
	Potassium	mg/L	Lab Analysis		1			-	-	-	7
	Sodium	mg/L	Lab Analysis		1			-	-	-	3110
	Sulfate	mg/L	Lab Analysis		1			-	-	-	658
	30	Conductivity	µs/cm		In situ			Quarterly	1		



	pH	pH	In situ		1	30/03/2022	8/04/2022	-	-	-	6.79
	SWL	mbtoc	In situ		1			-	-	-	13.18
	Bicarbonate	mg/L	Lab Analysis		1			-	-	-	746
	Calcium	mg/L	Lab Analysis		1			-	-	-	182
	Carbonate	mg/L	Lab Analysis		1			-	-	-	<1
	Chloride	mg/L	Lab Analysis		1			-	-	-	6510
	Magnesium	mg/L	Lab Analysis		1			-	-	-	470
	Potassium	mg/L	Lab Analysis		1			-	-	-	20
	Sodium	mg/L	Lab Analysis		1			-	-	-	3900
	Sulfate	mg/L	Lab Analysis		1			-	-	-	1330
31	Conductivity	µs/cm	In situ	Quarterly	1	30/03/2022	8/04/2022	-	-	-	7114
	pH	pH	In situ		1			-	-	-	6.94
	SWL	mbtoc	In situ		1			-	-	-	16.81
	Bicarbonate	mg/L	Lab Analysis		1			-	-	-	767
	Calcium	mg/L	Lab Analysis		1			-	-	-	82
	Carbonate	mg/L	Lab Analysis		1			-	-	-	<1
	Chloride	mg/L	Lab Analysis		1			-	-	-	1650
	Magnesium	mg/L	Lab Analysis		1			-	-	-	158
	Potassium	mg/L	Lab Analysis		1			-	-	-	12



	Sodium	mg/L	Lab Analysis		1			-	-	-	1190
	Sulfate	mg/L	Lab Analysis		1			-	-	-	343
32	Conductivity	µs/cm	In situ	Quarterly	1	30/03/2022	8/04/2022	-	-	-	1900
	pH	pH	In situ		1			-	-	-	8.05
	SWL	mbtoc	In situ		1			-	-	-	7.68
	Bicarbonate	mg/L	Lab Analysis		1			-	-	-	899
	Calcium	mg/L	Lab Analysis		1			-	-	-	1
	Carbonate	mg/L	Lab Analysis		1			-	-	-	52
	Chloride	mg/L	Lab Analysis		1			-	-	-	37
	Magnesium	mg/L	Lab Analysis		1			-	-	-	5
	Potassium	mg/L	Lab Analysis		1			-	-	-	<1
	Sodium	mg/L	Lab Analysis		1			-	-	-	2780
	Sulfate	mg/L	Lab Analysis		1			-	-	-	50
33	Conductivity	µs/cm	In situ	Quarterly	0	Bore was dry during scheduled sampling					
	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 was dry during scheduled sampling					
	pH	pH	In situ		0						
	SWL	mbtoc	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						
	35	Conductivity	µs/cm		In situ						
pH		pH	In situ	1	-	-	-	6.72			
SWL		mbtoc	In situ	1	-	-	-	18.64			
Bicarbonate		mg/L	Lab Analysis	1	-	-	-	5000			
Calcium		mg/L	Lab Analysis	1	-	-	-	40			

	Carbonate	mg/L	Lab Analysis		1			-	-	-	<1
	Chloride	mg/L	Lab Analysis		1			-	-	-	1220
	Magnesium	mg/L	Lab Analysis		1			-	-	-	70
	Potassium	mg/L	Lab Analysis		1			-	-	-	69
	Sodium	mg/L	Lab Analysis		1			-	-	-	2780
	Sulfate	mg/L	Lab Analysis		1			-	-	-	88

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 March 2022					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 March 2022					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	Not currently 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	Namoi discharge point – Not constructed or currently utilised.					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 March 2022					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

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 ² (D/E/N)	Compliant (Yes/No)	Date Obtained
N5 ¹	08/03/2022	26	I/A	N/M	N/M	<u>Day, Evening & Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs	Y/Y/Y	Y	08/04/2022
	09/03/2022	I/A	I/A	I/A	I/A		Evening – 0.5 hrs	Y/N/N	Y	08/04/2022
	10/03/2022	I/A	I/A	I/A	I/A		Night – 1 hr	N/N/N	Y	08/04/2022
N6	08/03/2022	I/A	31	30	35	<u>Day, Evening & Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs	Y/Y/N	Y	08/04/2022
	09/03/2022	I/A	30	31	35		Evening – 0.5 hrs	N/N/N	Y	08/04/2022
	10/03/2022	I/A	31	27	31		Night – 1 hr	N/N/Y	Y	08/04/2022
N8 ¹	08/03/2022	28	I/A	39 ³	42	<u>Day, Evening & Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs	Y/Y/Y	Y ⁴	08/04/2022
	09/03/2022	I/A	I/A	I/A	I/A		Evening – 0.5 hrs	Y/N/N	Y	08/04/2022
	10/03/2022	I/A	I/A	I/A	I/A		Night – 1 hr	N/N/Y	Y	08/04/2022
N9 ¹	08/03/2022	25	30	23	26	<u>Day, Evening & Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs	Y/Y/N	Y	08/04/2022
	09/03/2022	I/A	23	25	30		Evening – 0.5 hrs	N/N/N	Y	08/04/2022
	10/03/2022	N/M	24	27	30		Night – 1 hr	N/N/Y	Y	08/04/2022

Note 1: Property is owned by Narrabri Coal Operations

Note 2: Noise levels presented are the highest measured noise level under standard weather conditions over the monitoring period.

Note 3: Includes a +2dB correction for low frequency noise in accordance with the NPfl.

Note 4: The Noise Criteria for EPL Monitoring Location N8 (Haylin View) does not apply as the property is owned by Narrabri Coal and is not a privately owned residence.

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: April 2022

Obtained Date: 27/04/2022

Publication Date: 10/05/2022

Table 1 – No Pollutant Limits Apply

EPL	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Dates Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
ND3	Deposited Matter	g/m ² /month	Lab Analysis	Once a month (min. 4 weeks)	1	12/04/2022	27/04/2022	NA	NA	NA	0.1
11	Conductivity	µs/cm	In situ	Upon discharge (within 12 hours)	No discharge occurred during sampling period (SD4)						
	TOC	mg/L	Lab Analysis								
13	Conductivity	µs/cm	In situ	Upon discharge (within 12 hours)	No discharge occurred during sampling period (SD2)						
	TOC	mg/L	Lab Analysis								
14	Conductivity	µs/cm	In situ	Quarterly, Upon discharge & Flow Event	No flow events and/or mine discharge occurred during sampling period (KC1US)						
	TOC	mg/L	Lab Analysis								
	Oil & Grease	mg/L	Lab Analysis								
	pH	pH	In situ								
	TSS	mg/L	Lab Analysis								
15	Conductivity	µs/cm	In situ	Quarterly, Upon discharge & Flow Event	No flow events and/or mine discharge occurred during sampling period (KC1DS)						
	TOC	mg/L	Lab Analysis								
	Oil & Grease	mg/L	Lab Analysis								
	pH	pH	In situ								
	TSS	mg/L	Lab Analysis								

16	Conductivity	µs/cm	In situ	Quarterly, Upon discharge & Flow Event	<i>No flow events and/or mine discharge occurred during sampling period (KC2US)</i>
	TOC	mg/L	Lab Analysis		
	Oil & Grease	mg/L	Lab Analysis		
	pH	pH	In situ		
	TSS	mg/L	Lab Analysis		
17	Conductivity	µs/cm	In situ	Quarterly, Upon discharge & Flow Event	<i>No flow events and/or mine discharge occurred during sampling period (KC2DS)</i>
	TOC	mg/L	Lab Analysis		
	Oil & Grease	mg/L	Lab Analysis		
	pH	pH	In situ		
	TSS	mg/L	Lab Analysis		
18	Conductivity	µs/cm	In Situ	Upon discharge (within 12 hours)	<i>Not currently constructed (SD7).</i>
	TOC	mg/L	Lab Analysis		
19	Conductivity	µs/cm	In situ	Quarterly, Upon discharge & Flow Event	<i>No flow events and/or mine discharge occurred during sampling period (KCUS)</i>
	TOC	mg/L	Lab Analysis		
	Oil & Grease	mg/L	Lab Analysis		
	pH	pH	In situ		
	TSS	mg/L	Lab Analysis		
20	Conductivity	µs/cm	In situ	Quarterly, Upon discharge & Flow Event	<i>No flow events and/or mine discharge occurred during sampling period (KCDS)</i>
	TOC	mg/L	Lab Analysis		
	Oil & Grease	mg/L	Lab Analysis		
	pH	pH	In situ		

	TSS	mg/L	Lab Analysis			
21	Conductivity	µs/cm	In situ	Quarterly, Upon discharge & Flow Event	<i>No flow events and/or mine discharge occurred during sampling period (PCa)</i>	
	TOC	mg/L	Lab Analysis			
	Oil & Grease	mg/L	Lab Analysis			
	pH	pH	In situ			
	TSS	mg/L	Lab Analysis			
22	Conductivity	µs/cm	In situ	Quarterly, Upon discharge & Flow Event	<i>No flow events and/or mine discharge occurred during sampling period (PC1)</i>	
	TOC	mg/L	Lab Analysis			
	Oil & Grease	mg/L	Lab Analysis			
	pH	pH	In situ			
	TSS	mg/L	Lab Analysis			
24	pH	pH	In situ	Upon Discharge (within 4 hrs)	0	<i>Namoi discharge point – Not constructed or currently utilised (NR1).</i>
	TDS	mg/L	Lab Analysis		0	
25	pH	pH	In situ	Upon Discharge (within 4 hrs)	0	<i>Namoi discharge point – Not constructed or currently utilised (NRUS).</i>
	TDS	mg/L	Lab Analysis		0	
26	pH	pH	In situ	Upon Discharge (within 4 hrs)	0	<i>Namoi discharge point – Not constructed or currently utilised (NRDS).</i>
	TDS	mg/L	Lab Analysis		0	
28	Conductivity	µs/cm	In situ	Quarterly	0	<i>Not scheduled for sampling during reporting period</i>
	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	0	<i>Not scheduled for sampling during reporting period</i>
	pH	pH	In situ		0	
	SWL	mbtoc	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	
30	Conductivity	µs/cm	In situ	Quarterly	1	

	pH	pH	In situ		0	<i>Not scheduled for sampling during reporting period</i>
	SWL	mbtoc	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	
31	Conductivity	µs/cm	In situ	Quarterly	0	<i>Not scheduled for sampling during reporting period</i>
	pH	pH	In situ		0	
	SWL	mbtoc	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	
32	Conductivity	µs/cm	In situ	Quarterly	0	<i>Not scheduled for sampling during reporting period</i>
	pH	pH	In situ		0	
	SWL	mbtoc	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	
33	Conductivity	µs/cm	In situ	Quarterly	0	<i>Not scheduled for sampling during reporting period</i>
	pH	pH	In situ		0	
	SWL	mbtoc	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	
34	Conductivity	µs/cm	In situ	Quarterly	0	<i>Not scheduled for sampling during reporting period</i>
	pH	pH	In situ		0	
	SWL	mbtoc	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	
35	Conductivity	µs/cm	In situ	Quarterly	0	<i>Not scheduled for sampling during reporting period</i>
	pH	pH	In situ		0	
	SWL	mbtoc	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	

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	<i>No discharge occurred during sampling period</i>					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	<i>No discharge occurred during sampling period</i>					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	<i>Not currently constructed.</i>					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	<i>Namoi discharge point – Not constructed or currently utilised.</i>					350	N/A	NR1
	pH	pH	In situ		0						6.5-8.5	N/A	
27	TSS	mg/L	Lab Analysis	Upon discharge	0	<i>No discharge occurred during sampling period</i>					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

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 ² (D/E/N)	Compliant (Yes/No)	Date Obtained
N5						<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						<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 ¹						<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			
N9						<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			

Note: No monitoring scheduled during sampling 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: May 2022

Obtained Date: 30/05/2022

Publication Date: 6/06/2022

Table 1 – No Pollutant Limits Apply

EPL	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Dates Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
ND3	Deposited Matter	g/m ² /month	Lab Analysis	Once a month (min. 4 weeks)	1	12/05/2022	30/05/2022	NA	NA	NA	1.2
11	Conductivity	µs/cm	In situ	Upon discharge (within 12 hours)	No discharge occurred during sampling period (SD4)						
	TOC	mg/L	Lab Analysis								
13	Conductivity	µs/cm	In situ	Upon discharge (within 12 hours)	No discharge occurred during sampling period (SD2)						
	TOC	mg/L	Lab Analysis								
14	Conductivity	µs/cm	In situ	Quarterly, Upon discharge & Flow Event	No flow events and/or mine discharge occurred during sampling period (KC1US)						
	TOC	mg/L	Lab Analysis								
	Oil & Grease	mg/L	Lab Analysis								
	pH	pH	In situ								
	TSS	mg/L	Lab Analysis								
15	Conductivity	µs/cm	In situ	Quarterly, Upon discharge & Flow Event	No flow events and/or mine discharge occurred during sampling period (KC1DS)						
	TOC	mg/L	Lab Analysis								
	Oil & Grease	mg/L	Lab Analysis								
	pH	pH	In situ								
	TSS	mg/L	Lab Analysis								

16	Conductivity	µs/cm	In situ	Quarterly, Upon discharge & Flow Event	<i>No flow events and/or mine discharge occurred during sampling period (KC2US)</i>						
	TOC	mg/L	Lab Analysis								
	Oil & Grease	mg/L	Lab Analysis								
	pH	pH	In situ								
	TSS	mg/L	Lab Analysis								
17	Conductivity	µs/cm	In situ	Quarterly, Upon discharge & Flow Event	<i>No flow events and/or mine discharge occurred during sampling period (KC2DS)</i>						
	TOC	mg/L	Lab Analysis								
	Oil & Grease	mg/L	Lab Analysis								
	pH	pH	In situ								
	TSS	mg/L	Lab Analysis								
18	Conductivity	µs/cm	In Situ	Upon discharge (within 12 hours)	<i>Not currently constructed (SD7).</i>						
	TOC	mg/L	Lab Analysis								
19	Conductivity	µs/cm	In situ	Quarterly, Upon discharge & Flow Event	1	13/5/22	24/05/22	NA	NA	NA	45
	TOC	mg/L	Lab Analysis		1	13/5/22	24/05/22	NA	NA	NA	18
	Oil & Grease	mg/L	Lab Analysis		1	13/5/22	24/05/22	NA	NA	NA	<5
	pH	pH	In situ		1	13/5/22	24/05/22	NA	NA	NA	7.94
	TSS	mg/L	Lab Analysis		1	13/5/22	24/05/22	NA	NA	NA	52
20	Conductivity	µs/cm	In situ	Quarterly, Upon discharge & Flow Event	<i>No flow events and/or mine discharge occurred during sampling period (KCDS)</i>						
	TOC	mg/L	Lab Analysis								
	Oil & Grease	mg/L	Lab Analysis								
	pH	pH	In situ								

	TSS	mg/L	Lab Analysis								
21	Conductivity	µs/cm	In situ	Quarterly, Upon discharge & Flow Event	<i>No flow events and/or mine discharge occurred during sampling period (PCa)</i>						
	TOC	mg/L	Lab Analysis								
	Oil & Grease	mg/L	Lab Analysis								
	pH	pH	In situ								
	TSS	mg/L	Lab Analysis								
22	Conductivity	µs/cm	In situ	Quarterly, Upon discharge & Flow Event	1	13/5/22	24/05/22	NA	NA	NA	231
	TOC	mg/L	Lab Analysis		1	13/5/22	24/05/22	NA	NA	NA	20
	Oil & Grease	mg/L	Lab Analysis		1	13/5/22	24/05/22	NA	NA	NA	6
	pH	pH	In situ		1	13/5/22	24/05/22	NA	NA	NA	8.93
	TSS	mg/L	Lab Analysis		1	13/5/22	24/05/22	NA	NA	NA	29
24	pH	pH	In situ	Upon Discharge (within 4 hrs)	0	<i>Namoi discharge point – Not constructed or currently utilised (NR1).</i>					
	TDS	mg/L	Lab Analysis		0						
25	pH	pH	In situ	Upon Discharge (within 4 hrs)	0	<i>Namoi discharge point – Not constructed or currently utilised (NRUS).</i>					
	TDS	mg/L	Lab Analysis		0						
26	pH	pH	In situ	Upon Discharge (within 4 hrs)	0	<i>Namoi discharge point – Not constructed or currently utilised (NRDS).</i>					
	TDS	mg/L	Lab Analysis		0						
28	Conductivity	µs/cm	In situ	Quarterly	0	<i>Not scheduled for sampling during reporting period</i>					
	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	0	<i>Not scheduled for sampling during reporting period</i>
	pH	pH	In situ		0	
	SWL	mbtoc	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	

30	Conductivity	µs/cm	In situ	Quarterly	04	Not scheduled for sampling during reporting period
	pH	pH	In situ		0	
	SWL	mbtoc	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	
31	Conductivity	µs/cm	In situ	Quarterly	0	Not scheduled for sampling during reporting period
	pH	pH	In situ		0	
	SWL	mbtoc	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	
32	Conductivity	µs/cm	In situ	Quarterly	0	<i>Not scheduled for sampling during reporting period</i>
	pH	pH	In situ		0	
	SWL	mbtoc	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	
33	Conductivity	µs/cm	In situ	Quarterly	0	<i>Not scheduled for sampling during reporting period</i>
	pH	pH	In situ		0	
	SWL	mbtoc	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	
34	Conductivity	µs/cm	In situ	Quarterly	0	<i>Not scheduled for sampling during reporting period</i>
	pH	pH	In situ		0	
	SWL	mbtoc	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	
35	Conductivity	µs/cm	In situ	Quarterly	0	<i>Not scheduled for sampling during reporting period</i>
	pH	pH	In situ		0	
	SWL	mbtoc	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	

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	<i>No discharge occurred during sampling period</i>					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	<i>No discharge occurred during sampling period</i>					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	<i>Not currently constructed.</i>					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	<i>Namoi discharge point – Not constructed or currently utilised.</i>					350	N/A	NR1
	pH	pH	In situ		0						6.5-8.5	N/A	
27	TSS	mg/L	Lab Analysis	Upon discharge	0	<i>No discharge occurred during sampling period</i>					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

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 ² (D/E/N)	Compliant (Yes/No)	Date Obtained
N5						<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						<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 ¹						<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			
N9						<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			

Note: No monitoring scheduled during sampling 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: June 2022

Obtained Date: 14/07/2022

Publication Date: 15/07/2022

Table 1 – No Pollutant Limits Apply

EPL	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Dates Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
ND3	Deposited Matter	g/m ² /month	Lab Analysis	Once a month (min. 4 weeks)	1	14/06/2022	27/06/2022	NA	NA	NA	0.3
11	Conductivity	µs/cm	In situ	Upon discharge (within 12 hours)	No discharge occurred during sampling period (SD4)						
	TOC	mg/L	Lab Analysis								
13	Conductivity	µs/cm	In situ	Upon discharge (within 12 hours)	No discharge occurred during sampling period (SD2)						
	TOC	mg/L	Lab Analysis								
14	Conductivity	µs/cm	In situ	Quarterly, Upon discharge & Flow Event	No flow events and/or mine discharge occurred during sampling period (KC1US)						
	TOC	mg/L	Lab Analysis								
	Oil & Grease	mg/L	Lab Analysis								
	pH	pH	In situ								
	TSS	mg/L	Lab Analysis								
15	Conductivity	µs/cm	In situ	Quarterly, Upon discharge & Flow Event	No flow events and/or mine discharge occurred during sampling period (KC1DS)						
	TOC	mg/L	Lab Analysis								
	Oil & Grease	mg/L	Lab Analysis								
	pH	pH	In situ								
	TSS	mg/L	Lab Analysis								

16	Conductivity	µs/cm	In situ	Quarterly, Upon discharge & Flow Event	<i>No flow events and/or mine discharge occurred during sampling period (KC2US)</i>
	TOC	mg/L	Lab Analysis		
	Oil & Grease	mg/L	Lab Analysis		
	pH	pH	In situ		
	TSS	mg/L	Lab Analysis		
17	Conductivity	µs/cm	In situ	Quarterly, Upon discharge & Flow Event	<i>No flow events and/or mine discharge occurred during sampling period (KC2DS)</i>
	TOC	mg/L	Lab Analysis		
	Oil & Grease	mg/L	Lab Analysis		
	pH	pH	In situ		
	TSS	mg/L	Lab Analysis		
18	Conductivity	µs/cm	In Situ	Upon discharge (within 12 hours)	<i>Not currently constructed (SD7).</i>
	TOC	mg/L	Lab Analysis		
19	Conductivity	µs/cm	In situ	Quarterly, Upon discharge & Flow Event	<i>No flow events and/or mine discharge occurred during sampling period (KCUS)</i>
	TOC	mg/L	Lab Analysis		
	Oil & Grease	mg/L	Lab Analysis		
	pH	pH	In situ		
	TSS	mg/L	Lab Analysis		
20	Conductivity	µs/cm	In situ	Quarterly, Upon discharge & Flow Event	<i>No flow events and/or mine discharge occurred during sampling period (KCDS)</i>
	TOC	mg/L	Lab Analysis		
	Oil & Grease	mg/L	Lab Analysis		
	pH	pH	In situ		

	TSS	mg/L	Lab Analysis			
21	Conductivity	µs/cm	In situ	Quarterly, Upon discharge & Flow Event	<i>No flow events and/or mine discharge occurred during sampling period (PCa)</i>	
	TOC	mg/L	Lab Analysis			
	Oil & Grease	mg/L	Lab Analysis			
	pH	pH	In situ			
	TSS	mg/L	Lab Analysis			
22	Conductivity	µs/cm	In situ	Quarterly, Upon discharge & Flow Event	<i>No flow events and/or mine discharge occurred during sampling period (PC1)</i>	
	TOC	mg/L	Lab Analysis			
	Oil & Grease	mg/L	Lab Analysis			
	pH	pH	In situ			
	TSS	mg/L	Lab Analysis			
24	pH	pH	In situ	Upon Discharge (within 4 hrs)	0	<i>Namoi discharge point – Not constructed or currently utilised (NR1).</i>
	TDS	mg/L	Lab Analysis		0	
25	pH	pH	In situ	Upon Discharge (within 4 hrs)	0	<i>Namoi discharge point – Not constructed or currently utilised (NRUS).</i>
	TDS	mg/L	Lab Analysis		0	
26	pH	pH	In situ	Upon Discharge (within 4 hrs)	0	<i>Namoi discharge point – Not constructed or currently utilised (NRDS).</i>
	TDS	mg/L	Lab Analysis		0	
28	Conductivity	µs/cm	In situ	Quarterly	0	<i>Bore was dry during scheduled sampling</i>
	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	8/6/2022	20/6/2022	-	-	-	15310
	pH	pH	In situ		1	8/6/2022	20/6/2022	-	-	-	7.26
	SWL	mbtoc	In situ		1	8/6/2022	20/6/2022	-	-	-	4.83
	Bicarbonate	mg/L	Lab Analysis		1	8/6/2022	20/6/2022	-	-	-	566
	Calcium	mg/L	Lab Analysis		1	8/6/2022	20/6/2022	-	-	-	97
	Carbonate	mg/L	Lab Analysis		1	8/6/2022	20/6/2022	-	-	-	1
	Chloride	mg/L	Lab Analysis		1	8/6/2022	20/6/2022	-	-	-	4540
	Magnesium	mg/L	Lab Analysis		1	8/6/2022	20/6/2022	-	-	-	254
	Potassium	mg/L	Lab Analysis		1	8/6/2022	20/6/2022	-	-	-	7
	Sodium	mg/L	Lab Analysis		1	8/6/2022	20/6/2022	-	-	-	3230
	Sulfate	mg/L	Lab Analysis		1	8/6/2022	20/6/2022	-	-	-	700



30	Conductivity	µs/cm	In situ	Quarterly	1	8/6/2022	20/6/2022	-	-	-	21459
	pH	pH	In situ		1	8/6/2022	20/6/2022	-	-	-	7.09
	SWL	mbtoc	In situ		1	8/6/2022	20/6/2022	-	-	-	13.18
	Bicarbonate	mg/L	Lab Analysis		1	8/6/2022	20/6/2022	-	-	-	731
	Calcium	mg/L	Lab Analysis		1	8/6/2022	20/6/2022	-	-	-	191
	Carbonate	mg/L	Lab Analysis		1	8/6/2022	20/6/2022	-	-	-	1
	Chloride	mg/L	Lab Analysis		1	8/6/2022	20/6/2022	-	-	-	6330
	Magnesium	mg/L	Lab Analysis		1	8/6/2022	20/6/2022	-	-	-	510
	Potassium	mg/L	Lab Analysis		1	8/6/2022	20/6/2022	-	-	-	22
	Sodium	mg/L	Lab Analysis		1	8/6/2022	20/6/2022	-	-	-	4270
	Sulfate	mg/L	Lab Analysis		1	8/6/2022	20/6/2022	-	-	-	1480
31	Conductivity	µs/cm	In situ	Quarterly	1	8/6/2022	20/6/2022	-	-	-	7190
	pH	pH	In situ		1	8/6/2022	20/6/2022	-	-	-	7.1
	SWL	mbtoc	In situ		1	8/6/2022	20/6/2022	-	-	-	16.93
	Bicarbonate	mg/L	Lab Analysis		1	8/6/2022	20/6/2022	-	-	-	807
	Calcium	mg/L	Lab Analysis		1	8/6/2022	20/6/2022	-	-	-	97
	Carbonate	mg/L	Lab Analysis		1	8/6/2022	20/6/2022	-	-	-	1
	Chloride	mg/L	Lab Analysis		1	8/6/2022	20/6/2022	-	-	-	1670
	Magnesium	mg/L	Lab Analysis		1	8/6/2022	20/6/2022	-	-	-	186

	Potassium	mg/L	Lab Analysis		1	8/6/2022	20/6/2022	-	-	-	14
	Sodium	mg/L	Lab Analysis		1	8/6/2022	20/6/2022	-	-	-	1320
	Sulfate	mg/L	Lab Analysis		1	8/6/2022	20/6/2022	-	-	-	391
32	Conductivity	µs/cm	In situ	Quarterly	1	8/6/2022	20/6/2022	-	-	-	1865
	pH	pH	In situ		1	8/6/2022	20/6/2022	-	-	-	8.22
	SWL	mbtoc	In situ		1	8/6/2022	20/6/2022	-	-	-	7.5
	Bicarbonate	mg/L	Lab Analysis		1	8/6/2022	20/6/2022	-	-	-	786
	Calcium	mg/L	Lab Analysis		1	8/6/2022	20/6/2022	-	-	-	1
	Carbonate	mg/L	Lab Analysis		1	8/6/2022	20/6/2022	-	-	-	91
	Chloride	mg/L	Lab Analysis		1	8/6/2022	20/6/2022	-	-	-	38
	Magnesium	mg/L	Lab Analysis		1	8/6/2022	20/6/2022	-	-	-	5
	Potassium	mg/L	Lab Analysis		1	8/6/2022	20/6/2022	-	-	-	1
	Sodium	mg/L	Lab Analysis		1	8/6/2022	20/6/2022	-	-	-	505
	Sulfate	mg/L	Lab Analysis		1	8/6/2022	20/6/2022	-	-	-	57
33	Conductivity	µs/cm	In situ	Quarterly	0	<i>Bore was dry during scheduled sampling</i>					
	pH	pH	In situ		0						
	SWL	mbtoc	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						
34	Conductivity	µs/cm	In situ	Quarterly	0	<i>Bore was dry during scheduled sampling</i>					
	pH	pH	In situ		0						
	SWL	mbtoc	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						
35	Conductivity	µs/cm	In situ	Quarterly	1	8/6/2022	20/6/2022	-	-	-	11217
	pH	pH	In situ		1	8/6/2022	20/6/2022	-	-	-	6.89
	SWL	mbtoc	In situ		1	8/6/2022	20/6/2022	-	-	-	18.72
	Bicarbonate	mg/L	Lab Analysis		1	8/6/2022	20/6/2022	-	-	-	5280

	Calcium	mg/L	Lab Analysis		1	8/6/2022	20/6/2022	-	-	-	49
	Carbonate	mg/L	Lab Analysis		1	8/6/2022	20/6/2022	-	-	-	1
	Chloride	mg/L	Lab Analysis		1	8/6/2022	20/6/2022	-	-	-	1130
	Magnesium	mg/L	Lab Analysis		1	8/6/2022	20/6/2022	-	-	-	75
	Potassium	mg/L	Lab Analysis		1	8/6/2022	20/6/2022	-	-	-	75
	Sodium	mg/L	Lab Analysis		1	8/6/2022	20/6/2022	-	-	-	2950
	Sulfate	mg/L	Lab Analysis		1	8/6/2022	20/6/2022	-	-	-	94

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	<i>No discharge occurred during sampling period</i>					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	<i>No discharge occurred during sampling period</i>					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	<i>Not currently constructed.</i>					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	<i>Namoi discharge point – Not constructed or currently utilised.</i>					350	N/A	NR1
	pH	pH	In situ		0						6.5-8.5	N/A	
27	TSS	mg/L	Lab Analysis	Upon discharge	0	<i>No discharge occurred during sampling period</i>					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

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 ² (D/E/N)	Compliant (Yes/No)	Date Obtained
N5 ¹	21/06/2022	38	32	27	35	<u>Day, Evening & Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs	Y/Y/Y	Yes ³	14/07/2022
	22/06/2022	I/A	I/A	I/A	I/A		Evening – 0.5 hrs	Y/Y/Y	Yes	
	23/06/2022	I/A	I/A	I/A	I/A		Night – 1 hr	Y/Y/Y	Yes	
N6	21/06/2022	I/A	I/A	32	39	<u>Day, Evening & Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs	Y/Y/N	Yes	
	22/06/2022	N/M	30	28	41		Evening – 0.5 hrs	Y/Y/N	Yes	
	23/06/2022	N/M	28	29	35		Night – 1 hr	Y/Y/Y	Yes	
N8 ¹	21/06/2022	34	30	29	36	<u>Day, Evening & Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs	N/Y/Y	Yes	
	22/06/2022	N/M	I/A	22	24		Evening – 0.5 hrs	N/Y/Y	Yes	
	23/06/2022	22	27	27	35		Night – 1 hr	Y/N/N	Yes	
N9 ¹	21/06/2022	I/A	I/A	30	35	<u>Day, Evening & Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs	Y/Y/N	Yes	
	22/06/2022	29	23	24	28		Evening – 0.5 hrs	Y/Y/Y	Yes	
	23/06/2022	32	I/A	21	25		Night – 1 hr	Y/N/Y	Yes	

Note 1: Property is owned by Narrabri Coal Operations

Note 2: Noise levels presented are the highest measured noise level under standard weather conditions over the monitoring period.

Note 3: The Noise Criteria for EPL Monitoring Location N5 (Oakleigh) does not apply as the property is owned by Narrabri Coal and is therefore not a privately owned residence.

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: July 2022

Obtained Date: 28/07/2022

Publication Date: 01/08/2022

Table 1 – No Pollutant Limits Apply

EPL	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Dates Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
ND3	Deposited Matter	g/m ² /month	Lab Analysis	Once a month (min. 4 weeks)	1	14/07/2022	28/07/2022	NA	NA	NA	0.1
11	Conductivity	µs/cm	In situ	Upon discharge (within 12 hours)	<i>No discharge occurred during sampling period (SD4)</i>						
	TOC	mg/L	Lab Analysis								
13	Conductivity	µs/cm	In situ	Upon discharge (within 12 hours)	<i>No discharge occurred during sampling period (SD2)</i>						
	TOC	mg/L	Lab Analysis								
14	Conductivity	µs/cm	In situ	Quarterly, Upon discharge & Flow Event	<i>No flow events and/or mine discharge occurred during sampling period (KC1US)</i>						
	TOC	mg/L	Lab Analysis								
	Oil & Grease	mg/L	Lab Analysis								
	pH	pH	In situ								
	TSS	mg/L	Lab Analysis								
15	Conductivity	µs/cm	In situ	Quarterly, Upon discharge & Flow Event	<i>No flow events and/or mine discharge occurred during sampling period (KC1DS)</i>						
	TOC	mg/L	Lab Analysis								
	Oil & Grease	mg/L	Lab Analysis								
	pH	pH	In situ								
	TSS	mg/L	Lab Analysis								



16	Conductivity	µs/cm	In situ	Quarterly, Upon discharge & Flow Event	<i>No flow events and/or mine discharge occurred during sampling period (KC2US)</i>
	TOC	mg/L	Lab Analysis		
	Oil & Grease	mg/L	Lab Analysis		
	pH	pH	In situ		
	TSS	mg/L	Lab Analysis		
17	Conductivity	µs/cm	In situ	Quarterly, Upon discharge & Flow Event	<i>No flow events and/or mine discharge occurred during sampling period (KC2DS)</i>
	TOC	mg/L	Lab Analysis		
	Oil & Grease	mg/L	Lab Analysis		
	pH	pH	In situ		
	TSS	mg/L	Lab Analysis		
18	Conductivity	µs/cm	In Situ	Upon discharge (within 12 hours)	<i>Not currently constructed (SD7).</i>
	TOC	mg/L	Lab Analysis		
19	Conductivity	µs/cm	In situ	Quarterly, Upon discharge & Flow Event	<i>No flow events and/or mine discharge occurred during sampling period (KCUS)</i>
	TOC	mg/L	Lab Analysis		
	Oil & Grease	mg/L	Lab Analysis		
	pH	pH	In situ		
	TSS	mg/L	Lab Analysis		
20	Conductivity	µs/cm	In situ	Quarterly, Upon discharge & Flow Event	<i>No flow events and/or mine discharge occurred during sampling period (KCDS)</i>
	TOC	mg/L	Lab Analysis		
	Oil & Grease	mg/L	Lab Analysis		
	pH	pH	In situ		

	TSS	mg/L	Lab Analysis			
21	Conductivity	µs/cm	In situ	Quarterly, Upon discharge & Flow Event	<i>No flow events and/or mine discharge occurred during sampling period (PCa)</i>	
	TOC	mg/L	Lab Analysis			
	Oil & Grease	mg/L	Lab Analysis			
	pH	pH	In situ			
	TSS	mg/L	Lab Analysis			
22	Conductivity	µs/cm	In situ	Quarterly, Upon discharge & Flow Event	<i>No flow events and/or mine discharge occurred during sampling period (PC1)</i>	
	TOC	mg/L	Lab Analysis			
	Oil & Grease	mg/L	Lab Analysis			
	pH	pH	In situ			
	TSS	mg/L	Lab Analysis			
24	pH	pH	In situ	Upon Discharge (within 4 hrs)	0	<i>Namoi discharge point – Not constructed or currently utilised (NR1).</i>
	TDS	mg/L	Lab Analysis		0	
25	pH	pH	In situ	Upon Discharge (within 4 hrs)	0	<i>Namoi discharge point – Not constructed or currently utilised (NRUS).</i>
	TDS	mg/L	Lab Analysis		0	
26	pH	pH	In situ	Upon Discharge (within 4 hrs)	0	<i>Namoi discharge point – Not constructed or currently utilised (NRDS).</i>
	TDS	mg/L	Lab Analysis		0	
28	Conductivity	µs/cm	In situ	Quarterly	0	<i>Not scheduled for sampling during reporting period</i>
	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	0	<i>Not scheduled for sampling during reporting period</i>
	pH	pH	In situ		0	
	SWL	mbtoc	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	



30	Conductivity	µs/cm	In situ	Quarterly	0	Not scheduled for sampling during reporting period
	pH	pH	In situ		0	
	SWL	mbtoc	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	
31	Conductivity	µs/cm	In situ	Quarterly	0	Not scheduled for sampling during reporting period
	pH	pH	In situ		0	
	SWL	mbtoc	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	
32	Conductivity	µs/cm	In situ	Quarterly	0	<i>Not scheduled for sampling during reporting period</i>
	pH	pH	In situ		0	
	SWL	mbtoc	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	
33	Conductivity	µs/cm	In situ	Quarterly	0	<i>Bore was dry during scheduled sampling</i>
	pH	pH	In situ		0	
	SWL	mbtoc	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	
34	Conductivity	µs/cm	In situ	Quarterly	0	<i>Bore was dry during scheduled sampling</i>
	pH	pH	In situ		0	
	SWL	mbtoc	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	
35	Conductivity	µs/cm	In situ	Quarterly	0	<i>Not scheduled for sampling during reporting period</i>
	pH	pH	In situ		0	
	SWL	mbtoc	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	

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	<i>No discharge occurred during sampling period</i>					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	<i>No discharge occurred during sampling period</i>					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	<i>Not currently constructed.</i>					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	<i>Namoi discharge point – Not constructed or currently utilised.</i>					350	N/A	NR1
	pH	pH	In situ		0						6.5-8.5	N/A	
27	TSS	mg/L	Lab Analysis	Upon discharge	0	<i>No discharge occurred during sampling period</i>					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

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 ² (D/E/N)	Compliant (Yes/No)	Date Obtained
N5 ¹						<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						<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 ¹						<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			
N9 ¹						<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			

Note: No monitoring scheduled during sampling 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: August 2022

Obtained Date: 5/09/2022

Publication Date: 6/09/2022

Table 1 – No Pollutant Limits Apply

EPL	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Dates Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
ND3	Deposited Matter	g/m ² /month	Lab Analysis	Once a month (min. 4 weeks)	1	11/08/2022	31/08/2022	NA	NA	NA	0.3
11	Conductivity	µs/cm	In situ	Upon discharge (within 12 hours)	1	30/08/2022	5/09/2022	NA	NA	NA	841
	TOC	mg/L	Lab Analysis			30/08/2022	5/09/2022	NA	NA	NA	9
13	Conductivity	µs/cm	In situ	Upon discharge (within 12 hours)	2	25/08/2022 30/08/2022	5/09/2022	696	696.5	696.25	697
	TOC	mg/L	Lab Analysis		2	25/08/2022 30/08/2022	5/09/2022	14	16.5	15.25	19
14	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	1	5/08/2022	16/08/2022	NA	NA	NA	92
	TOC	mg/L	Lab Analysis		1	5/08/2022	16/08/2022	NA	NA	NA	12
	Oil & Grease	mg/L	Lab Analysis		1	5/08/2022	16/08/2022	NA	NA	NA	<5
	pH	pH	In situ		1	5/08/2022	16/08/2022	NA	NA	NA	7.48
	TSS	mg/L	Lab Analysis		1	5/08/2022	16/08/2022	NA	NA	NA	686
15	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	1	5/08/2022	16/08/2022	NA	NA	NA	358
	TOC	mg/L	Lab Analysis		1	5/08/2022	16/08/2022	NA	NA	NA	16
	Oil & Grease	mg/L	Lab Analysis		1	5/08/2022	16/08/2022	NA	NA	NA	<5
	pH	pH	In situ		1	5/08/2022	16/08/2022	NA	NA	NA	8.31
	TSS	mg/L	Lab Analysis		1	5/08/2022	16/08/2022	NA	NA	NA	40

16	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	1	5/08/2022	16/08/2022	NA	NA	NA	119
	TOC	mg/L	Lab Analysis		1	5/08/2022	16/08/2022	NA	NA	NA	23
	Oil & Grease	mg/L	Lab Analysis		1	5/08/2022	16/08/2022	NA	NA	NA	<5
	pH	pH	In situ		1	5/08/2022	16/08/2022	NA	NA	NA	6.61
	TSS	mg/L	Lab Analysis		1	5/08/2022	16/08/2022	NA	NA	NA	48
17	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	1	5/08/2022	16/08/2022	NA	NA	NA	69
	TOC	mg/L	Lab Analysis		1	5/08/2022	16/08/2022	NA	NA	NA	17
	Oil & Grease	mg/L	Lab Analysis		1	5/08/2022	16/08/2022	NA	NA	NA	<5
	pH	pH	In situ		1	5/08/2022	16/08/2022	NA	NA	NA	7.94
	TSS	mg/L	Lab Analysis		1	5/08/2022	16/08/2022	NA	NA	NA	40
18	Conductivity	µs/cm	In Situ	Upon discharge (within 12 hours)	<i>Not currently constructed (SD7).</i>						
	TOC	mg/L	Lab Analysis								
19	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	1	5/08/2022	16/08/2022	NA	NA	NA	349
	TOC	mg/L	Lab Analysis		1	5/08/2022	16/08/2022	NA	NA	NA	12
	Oil & Grease	mg/L	Lab Analysis		1	5/08/2022	16/08/2022	NA	NA	NA	<5
	pH	pH	In situ		1	5/08/2022	16/08/2022	NA	NA	NA	6.69
	TSS	mg/L	Lab Analysis		1	5/08/2022	16/08/2022	NA	NA	NA	434
20	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge	1	5/08/2022	16/08/2022	NA	NA	NA	103
	TOC	mg/L	Lab Analysis		1	5/08/2022	16/08/2022	NA	NA	NA	14
	Oil & Grease	mg/L	Lab Analysis		1	5/08/2022	16/08/2022	NA	NA	NA	<5
	pH	pH	In situ		1	5/08/2022	16/08/2022	NA	NA	NA	6.79

	TSS	mg/L	Lab Analysis	from points 11, 13, 18,27	1	5/08/2022	16/08/2022	NA	NA	NA	170
21	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	0	5/08/2022 <i>Note: no flow was recorded at site</i>	NA	NA	NA	NA	NA
	TOC	mg/L	Lab Analysis		0		NA	NA	NA	NA	NA
	Oil & Grease	mg/L	Lab Analysis		0		NA	NA	NA	NA	NA
	pH	pH	In situ		0		NA	NA	NA	NA	NA
	TSS	mg/L	Lab Analysis		0		NA	NA	NA	NA	NA
22	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	1	5/08/2022	16/08/2022	NA	NA	NA	141
	TOC	mg/L	Lab Analysis		1	5/08/2022	16/08/2022	NA	NA	NA	18
	Oil & Grease	mg/L	Lab Analysis		1	5/08/2022	16/08/2022	NA	NA	NA	<5
	pH	pH	In situ		1	5/08/2022	16/08/2022	NA	NA	NA	7.55
	TSS	mg/L	Lab Analysis		1	5/08/2022	16/08/2022	NA	NA	NA	59
24	pH	pH	In situ	Upon Discharge (within 4 hrs)	0	<i>Namoi discharge point – Not constructed or currently utilised (NR1).</i>					
	TDS	mg/L	Lab Analysis		0						
25	pH	pH	In situ	Upon Discharge (within 4 hrs)	0	<i>Namoi discharge point – Not constructed or currently utilised (NRUS).</i>					
	TDS	mg/L	Lab Analysis		0						
26	pH	pH	In situ	Upon Discharge (within 4 hrs)	0	<i>Namoi discharge point – Not constructed or currently utilised (NRDS).</i>					
	TDS	mg/L	Lab Analysis		0						
28	Conductivity	µs/cm	In situ	Quarterly	0	<i>Not scheduled for sampling during reporting period</i>					
	pH	pH	In situ		0						
	SWL	mbtoc	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	0	<i>Not scheduled for sampling during reporting period</i>
	pH	pH	In situ		0	
	SWL	mbtoc	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	



30	Conductivity	µs/cm	In situ	Quarterly	0	Not scheduled for sampling during reporting period
	pH	pH	In situ		0	
	SWL	mbtoc	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	
31	Conductivity	µs/cm	In situ	Quarterly	0	Not scheduled for sampling during reporting period
	pH	pH	In situ		0	
	SWL	mbtoc	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	
32	Conductivity	µs/cm	In situ	Quarterly	0	Not scheduled for sampling during reporting period
	pH	pH	In situ		0	
	SWL	mbtoc	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	
33	Conductivity	µs/cm	In situ	Quarterly	0	Not scheduled for sampling during reporting period
	pH	pH	In situ		0	
	SWL	mbtoc	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	
34	Conductivity	µs/cm	In situ	Quarterly	0	<i>Not scheduled for sampling during reporting period</i>
	pH	pH	In situ		0	
	SWL	mbtoc	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	
35	Conductivity	µs/cm	In situ	Quarterly	0	<i>Not scheduled for sampling during reporting period</i>
	pH	pH	In situ		0	
	SWL	mbtoc	In situ		0	
	Bicarbonate	mg/L	Lab Analysis		0	
	Calcium	mg/L	Lab Analysis		0	



WHITEHAVEN COAL

	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	

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	1	30/08/2022	5/08/2022	NA	NA	19	50	N/A	SD4
	Oil & Grease	mg/L	Lab Analysis		1	30/08/2022	5/08/2022	NA	NA	<5	10	N/A	
	pH	pH	In situ		1	30/08/2022	5/08/2022	NA	NA	8.25	6.5-8.5	N/A	
13	TSS	mg/L	Lab Analysis	Upon discharge	2	25/08/2022, 30/08/2022	5/08/2022	<5	<5	<5	50	N/A	SD2
	Oil & Grease	mg/L	Lab Analysis		2	25/08/2022, 30/08/2022	5/08/2022	<5	<5	<5	10	N/A	
	pH	pH	In situ		2	25/08/2022, 30/08/2022	5/08/2022	7.88	7.96	8.04	6.5-8.5	N/A	
18	TSS	mg/L	Lab Analysis	Upon discharge	0	Not currently 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	Namoi discharge point – Not constructed or currently utilised.					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 reporting period					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

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 (D/E/N)	Compliant (Yes/No)	Date Obtained
N5	<i>Not scheduled for monitoring during reporting period</i>					<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						<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						<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			
N9						<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			

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 2022

Obtained Date: 12/10/2022

Publication Date: 17/10/2022

Table 1 – No Pollutant Limits Apply

EPL	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Dates Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
ND3	Deposited Matter	g/m ² /month	Lab Analysis	Once a month (min. 4 weeks)	1	13/09/2022	28/09/2022	NA	NA	NA	0.4
11	Conductivity	µs/cm	In situ	Upon discharge (within 12 hours)	2	5/09/2022, 16/09/2022	30/09/2022	463	703	703	943
	TOC	mg/L	Lab Analysis		2	5/09/2022, 16/09/2022	30/09/2022	8	10	10	12
13	Conductivity	µs/cm	In situ	Upon discharge (within 12 hours)	1	16/09/2022	30/09/2022	NA	NA	NA	353
	TOC	mg/L	Lab Analysis		1	16/09/2022	30/09/2022	NA	NA	NA	10
14	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	3	5/09/2022 16/09/2022 22/09/2022	30/09/2022	77	96	77	121
	TOC	mg/L	Lab Analysis		3			8	11	12	14
	Oil & Grease	mg/L	Lab Analysis		3			<5	<5	<5	<5
	pH	pH	In situ		3			6.74	7.32	7.29	7.49
	TSS	mg/L	Lab Analysis		3			29	53	58	71
15	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	3	5/09/2022 16/09/2022 22/09/2022	30/09/2022	112	317	133	707
	TOC	mg/L	Lab Analysis		3			9	11	11	12
	Oil & Grease	mg/L	Lab Analysis		3			<5	<5	<5	<5
	pH	pH	In situ		3			7.29	7.72	7.51	8.35
	TSS	mg/L	Lab Analysis		3			30	102	99	177

16	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	2	16/09/2022 22/09/2022 Note: no flow was recorded on 5/09/2022	30/09/2022	49	53	53	57
	TOC	mg/L	Lab Analysis		2			8	8.5	8.5	9
	Oil & Grease	mg/L	Lab Analysis		2			<5	<5	<5	<5
	pH	pH	In situ		2			7.1	7.15	7.15	7.2
	TSS	mg/L	Lab Analysis		2			59	71.5	71.5	84
17	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	3	5/09/2022 16/09/2022 22/09/2022	30/09/2022	105	210	221	304
	TOC	mg/L	Lab Analysis		3			9	11	10	14
	Oil & Grease	mg/L	Lab Analysis		3			<5	<5	<5	<5
	pH	pH	In situ		3			6.8	7.26	7.49	7.49
	TSS	mg/L	Lab Analysis		3			6	26	28	43
18	Conductivity	µs/cm	In Situ	Upon discharge (within 12 hours)	2	16/09/2022 22/09/2022	30/09/2022	61	76.5	76.5	92
	TOC	mg/L	Lab Analysis		2	16/09/2022 22/09/2022	30/09/2022	3	6	6	9
19	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	3	5/09/2022 16/09/2022 22/09/2022	30/09/2022	96	264	183	513
	TOC	mg/L	Lab Analysis		3			8	10	9	12
	Oil & Grease	mg/L	Lab Analysis		3			<5	<5	<5	<5
	pH	pH	In situ		3			7.13	7.31	7.25	7.54
	TSS	mg/L	Lab Analysis		3			26	106	139	153
20	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge	2	16/09/2022 22/09/2022 Note: no flow was recorded on 5/09/2022	30/09/2022	108	111	111	114
	TOC	mg/L	Lab Analysis		2			7	8.5	8.5	10
	Oil & Grease	mg/L	Lab Analysis		2			<5	6.5	6.5	8
	pH	pH	In situ		2			6.63	6.97	6.97	7.31

	TSS	mg/L	Lab Analysis	from points 11, 13, 18,27	2			88	103	103	118
21	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	1	5/09/2022 Note: sample site was not accessible on 16/09/2022 & 22/09/2022	30/09/2022	NA	NA	NA	141
	TOC	mg/L	Lab Analysis		1			NA	NA	NA	12
	Oil & Grease	mg/L	Lab Analysis		1			NA	NA	NA	<5
	pH	pH	In situ		1			NA	NA	NA	7.58
	TSS	mg/L	Lab Analysis		1			NA	NA	NA	28
22	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	3	5/09/2022 16/09/2022 22/09/2022	30/09/2022	77	108	77	156
	TOC	mg/L	Lab Analysis		3			7	9	8	12
	Oil & Grease	mg/L	Lab Analysis		3			<5	<5	<5	<5
	pH	pH	In situ		3			7.22	7.29	7.3	7.35
	TSS	mg/L	Lab Analysis		3			25	81	83	135
24	pH	pH	In situ	Upon Discharge (within 4 hrs)	0	Namoi discharge point – Not constructed or currently utilised (NR1).					
	TDS	mg/L	Lab Analysis	0							
25	pH	pH	In situ	Upon Discharge (within 4 hrs)	0	Namoi discharge point – Not constructed or currently utilised (NRUS).					
	TDS	mg/L	Lab Analysis	0							
26	pH	pH	In situ	Upon Discharge (within 4 hrs)	0	Namoi discharge point – Not constructed or currently utilised (NRDS).					
	TDS	mg/L	Lab Analysis	0							
28	Conductivity	µs/cm	In situ	Quarterly	0	Bore was dry during sampling period					
	pH	pH	In situ		0						
	SWL	mbtoc	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	14/09/22	23/09/2022	NA	NA	NA	19484
	pH	pH	In situ		1	14/09/22	23/09/2022	NA	NA	NA	7.87
	SWL	mbtoc	In situ		1	14/09/22	23/09/2022	NA	NA	NA	4.83
	Bicarbonate	mg/L	Lab Analysis		1	14/09/22	23/09/2022	NA	NA	NA	536
	Calcium	mg/L	Lab Analysis		1	14/09/22	23/09/2022	NA	NA	NA	136
	Carbonate	mg/L	Lab Analysis		1	14/09/22	23/09/2022	NA	NA	NA	<1
	Chloride	mg/L	Lab Analysis		1	14/09/22	23/09/2022	NA	NA	NA	5540
	Magnesium	mg/L	Lab Analysis		1	14/09/22	23/09/2022	NA	NA	NA	297
	Potassium	mg/L	Lab Analysis		1	14/09/22	23/09/2022	NA	NA	NA	8
	Sodium	mg/L	Lab Analysis		1	14/09/22	23/09/2022	NA	NA	NA	3220
	Sulfate	mg/L	Lab Analysis		1	14/09/22	23/09/2022	NA	NA	NA	734



30	Conductivity	µs/cm	In situ	Quarterly	1	14/09/22	23/09/2022	NA	NA	NA	19727
	pH	pH	In situ		1	14/09/22	23/09/2022	NA	NA	NA	7.29
	SWL	mbtoc	In situ		1	14/09/22	23/09/2022	NA	NA	NA	13.36
	Bicarbonate	mg/L	Lab Analysis		1	14/09/22	23/09/2022	NA	NA	NA	757
	Calcium	mg/L	Lab Analysis		1	14/09/22	23/09/2022	NA	NA	NA	153
	Carbonate	mg/L	Lab Analysis		1	14/09/22	23/09/2022	NA	NA	NA	<1
	Chloride	mg/L	Lab Analysis		1	14/09/22	23/09/2022	NA	NA	NA	5320
	Magnesium	mg/L	Lab Analysis		1	14/09/22	23/09/2022	NA	NA	NA	361
	Potassium	mg/L	Lab Analysis		1	14/09/22	23/09/2022	NA	NA	NA	18
	Sodium	mg/L	Lab Analysis		1	14/09/22	23/09/2022	NA	NA	NA	3190
	Sulfate	mg/L	Lab Analysis		1	14/09/22	23/09/2022	NA	NA	NA	1160
31	Conductivity	µs/cm	In situ	Quarterly	1	14/09/22	23/09/2022	NA	NA	NA	8052
	pH	pH	In situ		1	14/09/22	23/09/2022	NA	NA	NA	7.70
	SWL	mbtoc	In situ		1	14/09/22	23/09/2022	NA	NA	NA	16.90
	Bicarbonate	mg/L	Lab Analysis		1	14/09/22	23/09/2022	NA	NA	NA	911
	Calcium	mg/L	Lab Analysis		1	14/09/22	23/09/2022	NA	NA	NA	106
	Carbonate	mg/L	Lab Analysis		1	14/09/22	23/09/2022	NA	NA	NA	<1
	Chloride	mg/L	Lab Analysis		1	14/09/22	23/09/2022	NA	NA	NA	1710
	Magnesium	mg/L	Lab Analysis		1	14/09/22	23/09/2022	NA	NA	NA	168
	Potassium	mg/L	Lab Analysis		1	14/09/22	23/09/2022	NA	NA	NA	14

	Sodium	mg/L	Lab Analysis		1	14/09/22	23/09/2022	NA	NA	NA	1190
	Sulfate	mg/L	Lab Analysis		1	14/09/22	23/09/2022	NA	NA	NA	340
32	Conductivity	µs/cm	In situ	Quarterly	1	14/09/22	23/09/2022	NA	NA	NA	1982
	pH	pH	In situ		1	14/09/22	23/09/2022	NA	NA	NA	8.84
	SWL	mbtoc	In situ		1	14/09/22	23/09/2022	NA	NA	NA	7.75
	Bicarbonate	mg/L	Lab Analysis		1	14/09/22	23/09/2022	NA	NA	NA	887
	Calcium	mg/L	Lab Analysis		1	14/09/22	23/09/2022	NA	NA	NA	<1
	Carbonate	mg/L	Lab Analysis		1	14/09/22	23/09/2022	NA	NA	NA	67
	Chloride	mg/L	Lab Analysis		1	14/09/22	23/09/2022	NA	NA	NA	36
	Magnesium	mg/L	Lab Analysis		1	14/09/22	23/09/2022	NA	NA	NA	4
	Potassium	mg/L	Lab Analysis		1	14/09/22	23/09/2022	NA	NA	NA	<1
	Sodium	mg/L	Lab Analysis		1	14/09/22	23/09/2022	NA	NA	NA	442
	Sulfate	mg/L	Lab Analysis		1	14/09/22	23/09/2022	NA	NA	NA	56
33	Conductivity	µs/cm	In situ	Quarterly	0	<i>Bore was dry during sampling period</i>					
	pH	pH	In situ		0						
	SWL	mbtoc	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						
34	Conductivity	µs/cm	In situ	Quarterly	0	<i>Bore was dry during sampling period</i>					
	pH	pH	In situ		0						
	SWL	mbtoc	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						
35	Conductivity	µs/cm	In situ	Quarterly	1	14/09/22	23/09/2022	NA	NA	NA	12446
	pH	pH	In situ		1	14/09/22	23/09/2022	NA	NA	NA	7.22
	SWL	mbtoc	In situ		1	14/09/22	23/09/2022	NA	NA	NA	18.99
	Bicarbonate	mg/L	Lab Analysis		1	14/09/22	23/09/2022	NA	NA	NA	4950
	Calcium	mg/L	Lab Analysis		1	14/09/22	23/09/2022	NA	NA	NA	43

	Carbonate	mg/L	Lab Analysis		1	14/09/22	23/09/2022	NA	NA	NA	<1
	Chloride	mg/L	Lab Analysis		1	14/09/22	23/09/2022	NA	NA	NA	1230
	Magnesium	mg/L	Lab Analysis		1	14/09/22	23/09/2022	NA	NA	NA	68
	Potassium	mg/L	Lab Analysis		1	14/09/22	23/09/2022	NA	NA	NA	70
	Sodium	mg/L	Lab Analysis		1	14/09/22	23/09/2022	NA	NA	NA	2770
	Sulfate	mg/L	Lab Analysis		1	14/09/22	23/09/2022	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	2	5/09/2022, 16/09/2022	30/09/2022	27	126	225	50	No ¹	SD4
	Oil & Grease	mg/L	Lab Analysis		2	5/09/2022, 16/09/2022	30/09/2022	<5	<5	<5	10	No	
	pH	pH	In situ		2	5/09/2022, 16/09/2022	30/09/2022	8.36	8.4	8.44	6.5-8.5	No	
13	TSS	mg/L	Lab Analysis	Upon discharge	1	16/09/2022	30/09/2022	NA	NA	18	50	No	SD2
	Oil & Grease	mg/L	Lab Analysis		1	16/09/2022	30/09/2022	NA	NA	<5	10	No	
	pH	pH	In situ		1	16/09/2022	30/09/2022	NA	NA	7.75	6.5-8.5	No	
18	TSS	mg/L	Lab Analysis	Upon discharge	2	16/09/2022, 22/09/2022	30/09/2022	1040	1385	1730	50	No ¹	SD7
	Oil & Grease	mg/L	Lab Analysis		2	16/09/2022, 22/09/2022	30/09/2022	<5	<5	<5	10	No	

	pH	pH	In situ		2	16/09/2022, 22/09/2022	30/09/2022	7.93	8.12	8.31	6.5-8.5	No	
24	TDS	mg/L	Lab Analysis	Upon discharge	0	<i>Namoi discharge point – Not constructed or currently utilised.</i>					350	N/A	NR1
	pH	pH	In situ		0						6.5-8.5	N/A	
27	TSS	mg/L	Lab Analysis	Upon discharge	0	<i>No discharge occurred during reporting period</i>					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	

Note 1: Total Suspended Solids (TSS) concentration limit did not apply as per EPL12789 Condition L2.5(a) as the controlled discharge occurred solely as a result of rainfall exceeding 38.4mm over a consecutive 5-day period (triggered 3 Sept 2022, 15 Sept 2022 and 22 Sept 2022)

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 ² (D/E/N)			Compliant (Yes/No)	Date Obtained
N5 ¹	12/09/2022 ³	N/M	25	I/A	I/A	<u>Day, Evening & Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs	Y	N	Y	Y	12/10/2022
	13/09/2022 ³	I/A	27	N/M	N/M		Evening – 0.5 hrs	Y	N	Y	Y	
	14/09/2022 ³	37	34	32	40		Night – 1 hr	Y	Y	Y	Y	
N6	12/09/2022 ³	<25	32	N/M	N/M	<u>Day, Evening & Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs	Y	N	N	Y	
	13/09/2022 ³	I/A	I/A	N/M	N/M		Evening – 0.5 hrs	Y	Y	N	Y	
	14/09/2022 ³	I/A	I/A	N/M	N/M		Night – 1 hr	Y	Y	Y	Y	
N8 ¹	12/09/2022 ³	N/M	I/A	I/A	I/A	<u>Day, Evening & Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs	Y	N	Y	Y	
	13/09/2022 ³	28	37	I/A	I/A		Evening – 0.5 hrs	Y	Y	Y	Y	
	14/09/2022 ³	37	N/M	35	40		Night – 1 hr	Y	N	Y	Y	
N9 ¹	12/09/2022 ³	N/M	28	28	33	<u>Day, Evening & Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs	Y	N	N	Y	
	13/09/2022 ³	I/A	I/A	25	27		Evening – 0.5 hrs	Y	Y	N	Y	
	14/09/2022 ³	I/A	I/A	I/A	I/A		Night – 1 hr	Y	Y	Y	Y	

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

Note 1: Property is owned by Narrabri Coal Operations. Noise limits contained 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 are not applicable.

Note 2: Noise levels presented are the highest measured noise level under standard weather conditions over the monitoring period.

Note 3: Evening and Night monitoring conducted on this date, Day monitoring conducted during the following day 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: October 2022

Obtained Date: 28/10/2022

Publication Date: 11/11/2022

Table 1 – No Pollutant Limits Apply

EPL	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Dates Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
ND3	Deposited Matter	g/m ² /month	Lab Analysis	Once a month (min. 4 weeks)	1	11/10/2022	25/10/2022	NA	NA	NA	0.2
11	Conductivity	µs/cm	In situ	Upon discharge (within 12 hours)	1	21/10/2022	28/10/2022	NA	NA	NA	698
	TOC	mg/L	Lab Analysis		1	21/10/2022	28/10/2022	NA	NA	NA	6
13	Conductivity	µs/cm	In situ	Upon discharge (within 12 hours)	1	21/10/2022	28/10/2022	NA	NA	NA	444
	TOC	mg/L	Lab Analysis		1	21/10/2022	28/10/2022	NA	NA	NA	9
14	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	2	9/10/2022 21/10/2022	28/10/2022	56	94.5	NA	133
	TOC	mg/L	Lab Analysis		2			7	10.5	NA	14
	Oil & Grease	mg/L	Lab Analysis		2			<5	<5	NA	<5
	pH	pH	In situ		2			7.28	7.76	NA	8.27
	TSS	mg/L	Lab Analysis		2			46	86	NA	126
15	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	2	9/10/2022 21/10/2022	28/10/2022	86	125.5	NA	165
	TOC	mg/L	Lab Analysis		2			8	9.5	NA	11
	Oil & Grease	mg/L	Lab Analysis		2			<5	<5	NA	<5
	pH	pH	In situ		2			7.22	7.23	NA	7.23
	TSS	mg/L	Lab Analysis		2			274	358	NA	442

16	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	2	9/10/2022 21/10/2022	28/10/2022	34	52.5	NA	71
	TOC	mg/L	Lab Analysis		2			6	10	NA	14
	Oil & Grease	mg/L	Lab Analysis		2			<5	<5	NA	<5
	pH	pH	In situ		2			7.23	7.27	NA	7.31
	TSS	mg/L	Lab Analysis		2			48	50	NA	52
17	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	2	9/10/2022 21/10/2022	28/10/2022	48	69.5	NA	91
	TOC	mg/L	Lab Analysis		2			8	10.5	NA	13
	Oil & Grease	mg/L	Lab Analysis		2			<5	<5	NA	<5
	pH	pH	In situ		2			7.3	7.56	NA	7.81
	TSS	mg/L	Lab Analysis		2			52	195	NA	338
18	Conductivity	µs/cm	In Situ	Upon discharge (within 12 hours)	2	9/10/2022 21/10/2022	28/10/2022	17	85	NA	153
	TOC	mg/L	Lab Analysis		2	9/10/2022 21/10/2022	28/10/2022	6	8	NA	10
19	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	2	9/10/2022 21/10/2022	28/10/2022	40	158	NA	276
	TOC	mg/L	Lab Analysis		2			6	9	NA	12
	Oil & Grease	mg/L	Lab Analysis		2			<5	<5	NA	<5
	pH	pH	In situ		2			7.25	7.3	NA	7.35
	TSS	mg/L	Lab Analysis		2			60	69	NA	78
20	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge	2	9/10/2022 21/10/2022	28/10/2022	65	144	NA	223
	TOC	mg/L	Lab Analysis		2			8	10	NA	12
	Oil & Grease	mg/L	Lab Analysis		2			<5	<5	NA	<5
	pH	pH	In situ		2			7.04	7.06	NA	7.08

	TSS	mg/L	Lab Analysis	from points 11, 13, 18,27	2			51	96.5	NA	142
21	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	1	9/10/2022	13/10/2022	NA	NA	NA	120
	TOC	mg/L	Lab Analysis		1			NA	NA	NA	15
	Oil & Grease	mg/L	Lab Analysis		1			NA	NA	NA	<5
	pH	pH	In situ		1			NA	NA	NA	6.51
	TSS	mg/L	Lab Analysis		1			NA	NA	NA	26
22	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	2	9/10/2022 21/10/2022	28/10/2022	29	77	NA	125
	TOC	mg/L	Lab Analysis		2			6	7.5	NA	9
	Oil & Grease	mg/L	Lab Analysis		2			<5	<5	NA	<5
	pH	pH	In situ		2			7.06	7.28	NA	7.5
	TSS	mg/L	Lab Analysis		2			24	27	NA	30
24	pH	pH	In situ	Upon Discharge (within 4 hrs)	0	Namoi discharge point – Not constructed or currently utilised (NR1).					
	TDS	mg/L	Lab Analysis	0							
25	pH	pH	In situ	Upon Discharge (within 4 hrs)	0	Namoi discharge point – Not constructed or currently utilised (NRUS).					
	TDS	mg/L	Lab Analysis	0							
26	pH	pH	In situ	Upon Discharge (within 4 hrs)	0	Namoi discharge point – Not constructed or currently utilised (NRDS).					
	TDS	mg/L	Lab Analysis	0							
28	Conductivity	µs/cm	In situ	Quarterly	0	Not scheduled for sampling during reporting period					
	pH	pH	In situ		0						
	SWL	mbtoc	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	0	<i>Not scheduled for sampling during reporting period</i>
	pH	pH	In situ		0	
	SWL	mbtoc	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	



30	Conductivity	µs/cm	In situ	Quarterly	0	Not scheduled for sampling during reporting period
	pH	pH	In situ		0	
	SWL	mbtoc	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	
31	Conductivity	µs/cm	In situ	Quarterly	0	Not scheduled for sampling during reporting period
	pH	pH	In situ		0	
	SWL	mbtoc	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	
32	Conductivity	µs/cm	In situ	Quarterly	0	<i>Not scheduled for sampling during reporting period</i>
	pH	pH	In situ		0	
	SWL	mbtoc	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	
33	Conductivity	µs/cm	In situ	Quarterly	0	<i>Not scheduled for sampling during reporting period</i>
	pH	pH	In situ		0	
	SWL	mbtoc	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	
34	Conductivity	µs/cm	In situ	Quarterly	0	<i>Not scheduled for sampling during reporting period</i>
	pH	pH	In situ		0	
	SWL	mbtoc	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	
35	Conductivity	µs/cm	In situ	Quarterly	0	<i>Not scheduled for sampling during reporting period</i>
	pH	pH	In situ		0	
	SWL	mbtoc	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	

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	1	21/10/2022	28/10/2022	NA	NA	53	50	No ¹	SD4
	Oil & Grease	mg/L	Lab Analysis		1	21/10/2022	28/10/2022	NA	NA	<5	10	No	
	pH	pH	In situ		1	21/10/2022	28/10/2022	NA	NA	7.9	6.5-8.5	No	
13	TSS	mg/L	Lab Analysis	Upon discharge	1	21/10/2022	28/10/2022	NA	NA	128	50	No ¹	SD2
	Oil & Grease	mg/L	Lab Analysis		1	21/10/2022	28/10/2022	NA	NA	<5	10	No	
	pH	pH	In situ		1	21/10/2022	28/10/2022	NA	NA	8.3	6.5-8.5	No	
18	TSS	mg/L	Lab Analysis	Upon discharge	2	9/10/2022 21/10/2022	28/10/2022	953	2717	4480	50	No ¹	SD7
	Oil & Grease	mg/L	Lab Analysis		2	9/10/2022 21/10/2022	28/10/2022	<5	<5	<5	10	No	
	pH	pH	In situ		2	9/10/2022 21/10/2022	28/10/2022	8.4	8.5	8.5	6.5-8.5	No	
24	TDS	mg/L	Lab Analysis	Upon discharge	0	<i>Namoi discharge point – Not constructed or currently utilised.</i>					350	N/A	NR1
	pH	pH	In situ		0						6.5-8.5	N/A	
27	TSS	mg/L	Lab Analysis	Upon discharge	0	<i>No discharge occurred during reporting period</i>					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	

Note 1: Total Suspended Solids (TSS) concentration limit did not apply as per EPL12789 Condition L2.5(a) as the controlled discharge occurred solely as a result of rainfall exceeding 38.4mm over a consecutive 5-day period (triggered 8/10/2022 and 20/10/2022)

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 ² (D/E/N)			Compliant (Yes/No)	Date Obtained
N5	<i>Not scheduled for monitoring during reporting period</i>					<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						<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						<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					
N9						<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					

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 2022

Obtained Date: 25/11/2022

Publication Date: 13/12/2022

Table 1 – No Pollutant Limits Apply

EPL	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Dates Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
ND3	Deposited Matter	g/m ² /month	Lab Analysis	Once a month (min. 4 weeks)	1	10/11/2022	25/11/2022	NA	NA	NA	0.2
11	Conductivity	µs/cm	In situ	Upon discharge (within 12 hours)	2	1/11/2022 14/11/2022	18/11/2022	608	653.5	653.5	699
	TOC	mg/L	Lab Analysis		2	1/11/2022 14/11/2022	18/11/2022	7	8.5	8.5	10
13	Conductivity	µs/cm	In situ	Upon discharge (within 12 hours)	2	1/11/2022 14/11/2022	18/11/2022	453	522.5	522.5	592
	TOC	mg/L	Lab Analysis		2	1/11/2022 14/11/2022	18/11/2022	11	12.5	12.5	14
14	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	2	1/11/2022 14/11/2022	18/11/2022	88	96.5	96.5	105
	TOC	mg/L	Lab Analysis		2			14	15	15	16
	Oil & Grease	mg/L	Lab Analysis		2			<5	<5	<5	<5
	pH	pH	In situ		2			6.93	7.1	7.1	7.29
	TSS	mg/L	Lab Analysis		2			40	40	40	40
15	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	2	1/11/2022 14/11/2022	18/11/2022	117	131.5	131.5	146
	TOC	mg/L	Lab Analysis		2			11	13.5	13.5	16
	Oil & Grease	mg/L	Lab Analysis		2			<5	<5	<5	<5
	pH	pH	In situ		2			7.94	8	8	8.06
	TSS	mg/L	Lab Analysis		2			214	270.5	270.5	327

16	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	2	1/11/2022 14/11/2022	18/11/2022	62	67.5	67.5	73
	TOC	mg/L	Lab Analysis		2			10	13.5	13.5	17
	Oil & Grease	mg/L	Lab Analysis		2			<5	<5	<5	<5
	pH	pH	In situ		2			6.47	6.79	6.79	7.11
	TSS	mg/L	Lab Analysis		2			20	32	32	44
17	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	2	1/11/2022 14/11/2022	18/11/2022	66	70	70	74
	TOC	mg/L	Lab Analysis		2			11	14	14	17
	Oil & Grease	mg/L	Lab Analysis		2			<5	<5	<5	<5
	pH	pH	In situ		2			6.93	7.1	7.1	7.26
	TSS	mg/L	Lab Analysis		2			40	40	40	40
18	Conductivity	µs/cm	In Situ	Upon discharge (within 12 hours)	2	1/11/2022 14/11/2022	18/11/2022	118	198.5	198.5	279
	TOC	mg/L	Lab Analysis		2	1/11/2022 14/11/2022	18/11/2022	8	11	11	14
19	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	2	1/11/2022 14/11/2022	18/11/2022	100	108	108	116
	TOC	mg/L	Lab Analysis		2			11	12.5	12.5	14
	Oil & Grease	mg/L	Lab Analysis		2			<5	<5	<5	<5
	pH	pH	In situ		2			6.78	6.89	6.89	6.99
	TSS	mg/L	Lab Analysis		2			94	121	121	148
20	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge	2	1/11/2022 14/11/2022	18/11/2022	100	122	122	144
	TOC	mg/L	Lab Analysis		2			10	13	13	16
	Oil & Grease	mg/L	Lab Analysis		2			<5	<5	<5	<5
	pH	pH	In situ		2			6.31	6.74	6.74	7.16

	TSS	mg/L	Lab Analysis	from points 11, 13, 18,27	2			55	67.5	67.5	80
21	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	0	Note: sample site was not accessible on 1/11/2022 and 14/11/2022		NA	NA	NA	NA
	TOC	mg/L	Lab Analysis		0			NA	NA	NA	NA
	Oil & Grease	mg/L	Lab Analysis		0			NA	NA	NA	NA
	pH	pH	In situ		0			NA	NA	NA	NA
	TSS	mg/L	Lab Analysis		0			NA	NA	NA	NA
22	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	2	1/11/2022 14/11/2022	18/11/2022	100	100	100	100
	TOC	mg/L	Lab Analysis		2			10	11.5	11.5	13
	Oil & Grease	mg/L	Lab Analysis		2			<5	<5	<5	<5
	pH	pH	In situ		2			6.6	6.94	6.94	7.28
	TSS	mg/L	Lab Analysis		2			58	66	66	74
24	pH	pH	In situ	Upon Discharge (within 4 hrs)	0	Namoi discharge point – Not constructed or currently utilised (NR1).					
	TDS	mg/L	Lab Analysis	0							
25	pH	pH	In situ	Upon Discharge (within 4 hrs)	0	Namoi discharge point – Not constructed or currently utilised (NRUS).					
	TDS	mg/L	Lab Analysis	0							
26	pH	pH	In situ	Upon Discharge (within 4 hrs)	0	Namoi discharge point – Not constructed or currently utilised (NRDS).					
	TDS	mg/L	Lab Analysis	0							
28	Conductivity	µs/cm	In situ	Quarterly	0	Not scheduled for sampling during reporting period					
	pH	pH	In situ		0						
	SWL	mbtoc	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	0	<i>Not scheduled for sampling during reporting period</i>
	pH	pH	In situ		0	
	SWL	mbtoc	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	



30	Conductivity	µs/cm	In situ	Quarterly	0	Not scheduled for sampling during reporting period
	pH	pH	In situ		0	
	SWL	mbtoc	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	
31	Conductivity	µs/cm	In situ	Quarterly	0	Not scheduled for sampling during reporting period
	pH	pH	In situ		0	
	SWL	mbtoc	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	
32	Conductivity	µs/cm	In situ	Quarterly	0	Not scheduled for sampling during reporting period
	pH	pH	In situ		0	
	SWL	mbtoc	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	
33	Conductivity	µs/cm	In situ	Quarterly	0	Not scheduled for sampling during reporting period
	pH	pH	In situ		0	
	SWL	mbtoc	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	
34	Conductivity	µs/cm	In situ	Quarterly	0	<i>Not scheduled for sampling during reporting period</i>
	pH	pH	In situ		0	
	SWL	mbtoc	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	
35	Conductivity	µs/cm	In situ	Quarterly	0	<i>Not scheduled for sampling during reporting period</i>
	pH	pH	In situ		0	
	SWL	mbtoc	In situ		0	
	Bicarbonate	mg/L	Lab Analysis		0	
	Calcium	mg/L	Lab Analysis		0	



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	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	

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	2	1/11/2022 14/11/2022	18/11/2022	122	271.5	421	50	No ¹	SD4
	Oil & Grease	mg/L	Lab Analysis		2	1/11/2022 14/11/2022	18/11/2022	<5	<5	<5	10	No	
	pH	pH	In situ		2	1/11/2022 14/11/2022	18/11/2022	8.07	8.2	8.32	6.5-8.5	No	
13	TSS	mg/L	Lab Analysis	Upon discharge	2	1/11/2022 14/11/2022	18/11/2022	64	102	176	50	No ¹	SD2
	Oil & Grease	mg/L	Lab Analysis		2	1/11/2022 14/11/2022	18/11/2022	<5	<5	<5	10	No	
	pH	pH	In situ		2	1/11/2022 14/11/2022	18/11/2022	7.43	7.83	8.23	6.5-8.5	No	
18	TSS	mg/L	Lab Analysis	Upon discharge	2	1/11/2022 14/11/2022	18/11/2022	595	2148	3700	50	No ¹	SD7
	Oil & Grease	mg/L	Lab Analysis		2	1/11/2022 14/11/2022	18/11/2022	<5	<5	<5	10	No	
	pH	pH	In situ		2	1/11/2022 14/11/2022	18/11/2022	7.51	7.86	8.2	6.5-8.5	No	
24	TDS	mg/L	Lab Analysis	Upon discharge	0	<i>Namoi discharge point – Not constructed or currently utilised.</i>					350	N/A	NR1
	pH	pH	In situ		0						6.5-8.5	N/A	
27	TSS	mg/L	Lab Analysis	Upon discharge	0	<i>No discharge occurred during reporting period</i>					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	

Note 1: Total Suspended Solids (TSS) concentration limit did not apply as per EPL12789 Condition L2.5(a) as the controlled discharge occurred solely as a result of rainfall exceeding 38.4mm over a consecutive 5-day period (triggered 1/11/2022 and 14/11/2022)

Table 3 – Quarterly Attended Noise Monitoring results summary table

Q4 Attended noise monitoring was conducted in November, results will be included in the December EPL report.

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 ² (D/E/N)	Compliant (Yes/No)	Date Obtained
N5						<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						<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						<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			
N9						<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			

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 2022

Obtained Date: 06/01/2023

Publication Date: 10/01/2023

Table 1 – No Pollutant Limits Apply

EPL	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Dates Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
ND3	Deposited Matter	g/m ² /month	Lab Analysis	Once a month (min. 4 weeks)	1	12/12/2023	22/12/2022	NA	NA	NA	1.8
11	Conductivity	µs/cm	In situ	Upon discharge (within 12 hours)	No discharge occurred during sampling period (SD4)						
	TOC	mg/L	Lab Analysis								
13	Conductivity	µs/cm	In situ	Upon discharge (within 12 hours)	No discharge occurred during sampling period (SD2)						
	TOC	mg/L	Lab Analysis								
14	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	No flow events and/or mine discharge occurred during sampling period (KC1US)						
	TOC	mg/L	Lab Analysis								
	Oil & Grease	mg/L	Lab Analysis								
	pH	pH	In situ								
	TSS	mg/L	Lab Analysis								
15	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	No flow events and/or mine discharge occurred during sampling period (KC1DS)						
	TOC	mg/L	Lab Analysis								
	Oil & Grease	mg/L	Lab Analysis								
	pH	pH	In situ								
	TSS	mg/L	Lab Analysis								

16	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	No flow events and/or mine discharge occurred during sampling period (KC2US)
	TOC	mg/L	Lab Analysis		
	Oil & Grease	mg/L	Lab Analysis		
	pH	pH	In situ		
	TSS	mg/L	Lab Analysis		
17	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	No flow events and/or mine discharge occurred during sampling period (KC2DS)
	TOC	mg/L	Lab Analysis		
	Oil & Grease	mg/L	Lab Analysis		
	pH	pH	In situ		
	TSS	mg/L	Lab Analysis		
18	Conductivity	µs/cm	In Situ	Upon discharge (within 12 hours)	No discharge occurred during sampling period (SD7)
	TOC	mg/L	Lab Analysis		
19	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	No flow events and/or mine discharge occurred during sampling period (KCUS)
	TOC	mg/L	Lab Analysis		
	Oil & Grease	mg/L	Lab Analysis		
	pH	pH	In situ		
	TSS	mg/L	Lab Analysis		
20	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge	No flow events and/or mine discharge occurred during sampling period (KCDS)
	TOC	mg/L	Lab Analysis		
	Oil & Grease	mg/L	Lab Analysis		
	pH	pH	In situ		

	TSS	mg/L	Lab Analysis	from points 11, 13, 18,27		
21	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	<i>No flow events and/or mine discharge occurred during sampling period (PCa)</i>	
	TOC	mg/L	Lab Analysis			
	Oil & Grease	mg/L	Lab Analysis			
	pH	pH	In situ			
	TSS	mg/L	Lab Analysis			
22	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27	<i>No flow events and/or mine discharge occurred during sampling period (PC1)</i>	
	TOC	mg/L	Lab Analysis			
	Oil & Grease	mg/L	Lab Analysis			
	pH	pH	In situ			
	TSS	mg/L	Lab Analysis			
24	pH	pH	In situ	Upon Discharge (within 4 hrs)	<i>Namoi discharge point – Not constructed or currently utilised (NR1).</i>	
	TDS	mg/L	Lab Analysis			
25	pH	pH	In situ	Upon Discharge (within 4 hrs)	<i>Namoi discharge point – Not constructed or currently utilised (NRUS).</i>	
	TDS	mg/L	Lab Analysis			
26	pH	pH	In situ	Upon Discharge (within 4 hrs)	<i>Namoi discharge point – Not constructed or currently utilised (NRDS).</i>	
	TDS	mg/L	Lab Analysis			
28	Conductivity	µs/cm	In situ	Quarterly	0	<i>Bore was dry during sampling period</i>
	pH	pH	In situ		0	
	SWL	mbtoc	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	20/12/2022	6/01/2023	NA	NA	NA	19661
	pH	pH	In situ		1	20/12/2022	6/01/2023	NA	NA	NA	7.02
	SWL	mbtoc	In situ		1	20/12/2022	6/01/2023	NA	NA	NA	4.33
	Bicarbonate	mg/L	Lab Analysis		1	20/12/2022	6/01/2023	NA	NA	NA	587
	Calcium	mg/L	Lab Analysis		1	20/12/2022	6/01/2023	NA	NA	NA	191
	Carbonate	mg/L	Lab Analysis		1	20/12/2022	6/01/2023	NA	NA	NA	<1
	Chloride	mg/L	Lab Analysis		1	20/12/2022	6/01/2023	NA	NA	NA	7620
	Magnesium	mg/L	Lab Analysis		1	20/12/2022	6/01/2023	NA	NA	NA	494
	Potassium	mg/L	Lab Analysis		1	20/12/2022	6/01/2023	NA	NA	NA	8
	Sodium	mg/L	Lab Analysis		1	20/12/2022	6/01/2023	NA	NA	NA	4100
	Sulfate	mg/L	Lab Analysis		1	20/12/2022	6/01/2023	NA	NA	NA	914

30	Conductivity	µs/cm	In situ	Quarterly	1	20/12/2022	6/01/2023	NA	NA	NA	17343
	pH	pH	In situ		1	20/12/2022	6/01/2023	NA	NA	NA	6.81
	SWL	mbtoc	In situ		1	20/12/2022	6/01/2023	NA	NA	NA	12.85
	Bicarbonate	mg/L	Lab Analysis		1	20/12/2022	6/01/2023	NA	NA	NA	895
	Calcium	mg/L	Lab Analysis		1	20/12/2022	6/01/2023	NA	NA	NA	125
	Carbonate	mg/L	Lab Analysis		1	20/12/2022	6/01/2023	NA	NA	NA	<1
	Chloride	mg/L	Lab Analysis		1	20/12/2022	6/01/2023	NA	NA	NA	5550
	Magnesium	mg/L	Lab Analysis		1	20/12/2022	6/01/2023	NA	NA	NA	371
	Potassium	mg/L	Lab Analysis		1	20/12/2022	6/01/2023	NA	NA	NA	17
	Sodium	mg/L	Lab Analysis		1	20/12/2022	6/01/2023	NA	NA	NA	3200
	Sulfate	mg/L	Lab Analysis		1	20/12/2022	6/01/2023	NA	NA	NA	1180
31	Conductivity	µs/cm	In situ	Quarterly	1	20/12/2022	6/01/2023	NA	NA	NA	7235
	pH	pH	In situ		1	20/12/2022	6/01/2023	NA	NA	NA	6.86
	SWL	mbtoc	In situ		1	20/12/2022	6/01/2023	NA	NA	NA	16.76
	Bicarbonate	mg/L	Lab Analysis		1	20/12/2022	6/01/2023	NA	NA	NA	920
	Calcium	mg/L	Lab Analysis		1	20/12/2022	6/01/2023	NA	NA	NA	113
	Carbonate	mg/L	Lab Analysis		1	20/12/2022	6/01/2023	NA	NA	NA	<1
	Chloride	mg/L	Lab Analysis		1	20/12/2022	6/01/2023	NA	NA	NA	1750
	Magnesium	mg/L	Lab Analysis		1	20/12/2022	6/01/2023	NA	NA	NA	197
	Potassium	mg/L	Lab Analysis		1	20/12/2022	6/01/2023	NA	NA	NA	16



	Sodium	mg/L	Lab Analysis		1	20/12/2022	6/01/2023	NA	NA	NA	1200
	Sulfate	mg/L	Lab Analysis		1	20/12/2022	6/01/2023	NA	NA	NA	354
32	Conductivity	µs/cm	In situ	Quarterly	1	20/12/2022	6/01/2023	NA	NA	NA	3332
	pH	pH	In situ		1	20/12/2022	6/01/2023	NA	NA	NA	7.2
	SWL	mbtoc	In situ		1	20/12/2022	6/01/2023	NA	NA	NA	7.98
	Bicarbonate	mg/L	Lab Analysis		1	20/12/2022	6/01/2023	NA	NA	NA	746
	Calcium	mg/L	Lab Analysis		1	20/12/2022	6/01/2023	NA	NA	NA	3
	Carbonate	mg/L	Lab Analysis		1	20/12/2022	6/01/2023	NA	NA	NA	51
	Chloride	mg/L	Lab Analysis		1	20/12/2022	6/01/2023	NA	NA	NA	615
	Magnesium	mg/L	Lab Analysis		1	20/12/2022	6/01/2023	NA	NA	NA	12
	Potassium	mg/L	Lab Analysis		1	20/12/2022	6/01/2023	NA	NA	NA	<1
	Sodium	mg/L	Lab Analysis		1	20/12/2022	6/01/2023	NA	NA	NA	747
	Sulfate	mg/L	Lab Analysis		1	20/12/2022	6/01/2023	NA	NA	NA	113
33	Conductivity	µs/cm	In situ	Quarterly	0	Bore was dry during sampling period					
	pH	pH	In situ		0						
	SWL	mbtoc	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						
34	Conductivity	µs/cm	In situ	Quarterly	0	<i>Bore was dry during sampling period</i>					
	pH	pH	In situ		0						
	SWL	mbtoc	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						
35	Conductivity	µs/cm	In situ	Quarterly	1	20/12/2022	6/01/2023	NA	NA	NA	11353
	pH	pH	In situ		1	20/12/2022	6/01/2023	NA	NA	NA	6.84
	SWL	mbtoc	In situ		1	20/12/2022	6/01/2023	NA	NA	NA	18.42
	Bicarbonate	mg/L	Lab Analysis		1	20/12/2022	6/01/2023	NA	NA	NA	4850
	Calcium	mg/L	Lab Analysis		1	20/12/2022	6/01/2023	NA	NA	NA	36



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	Carbonate	mg/L	Lab Analysis		1	20/12/2022	6/01/2023	NA	NA	NA	<1
	Chloride	mg/L	Lab Analysis		1	20/12/2022	6/01/2023	NA	NA	NA	1280
	Magnesium	mg/L	Lab Analysis		1	20/12/2022	6/01/2023	NA	NA	NA	71
	Potassium	mg/L	Lab Analysis		1	20/12/2022	6/01/2023	NA	NA	NA	76
	Sodium	mg/L	Lab Analysis		1	20/12/2022	6/01/2023	NA	NA	NA	2910
	Sulfate	mg/L	Lab Analysis		1	20/12/2022	6/01/2023	NA	NA	NA	97

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	<i>No discharge occurred during sampling period</i>					50	No	SD4
	Oil & Grease	mg/L	Lab Analysis		0						10	No	
	pH	pH	In situ		0						6.5-8.5	No	
13	TSS	mg/L	Lab Analysis	Upon discharge	0	<i>No discharge occurred during sampling period</i>					50	No	SD2
	Oil & Grease	mg/L	Lab Analysis		0						10	No	
	pH	pH	In situ		0						6.5-8.5	No	
18	TSS	mg/L	Lab Analysis	Upon discharge	0	<i>No discharge occurred during sampling period</i>					50	No	SD7
	Oil & Grease	mg/L	Lab Analysis		0						10	No	
	pH	pH	In situ		0						6.5-8.5	No	
24	TDS	mg/L	Lab Analysis	Upon discharge	0	<i>Namoi discharge point – Not constructed or currently utilised.</i>					350	N/A	NR1
	pH	pH	In situ		0						6.5-8.5	N/A	
27	TSS	mg/L	Lab Analysis	Upon discharge	0	<i>No discharge occurred during reporting period</i>					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

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 ² (D/E/N)			Compliant (Yes/No)	Date Obtained
N5 ¹	21/11/2022 ³	I/A	28	I/A	I/A	<u>Day, Evening & Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs	Y	Y	N	Y	22/12/2022
	22/11/2022 ³	I/A	28	26	35		Evening – 0.5 hrs	Y	Y	N	Y	
	23/11/2022 ³	I/A	26	<25	25		Night – 1 hr	Y	N	Y	Y	
N6	22/11/2022	N/M	28	33	44	<u>Day, Evening & Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs	Y	Y	Y	Y	
	23/11/2022	N/M	31	34	41		Evening – 0.5 hrs	Y	N	Y	Y	
	24/11/2022	I/A	31	32	41		Night – 1 hr	Y	N	N	Y	
N8 ¹	22/11/2022	N/M	I/A	I/A	I/A	<u>Day, Evening & Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs	Y	Y	N	Y	
	23/11/2022	N/M	28	N/M	N/M		Evening – 0.5 hrs	Y	N	N	Y	
	24/11/2022	N/M	30	I/A	I/A		Night – 1 hr	Y	N	Y	Y	
N9 ¹	21/11/2022 ³	28	26	29	39	<u>Day, Evening & Night:</u> 35 <u>Night</u> <u>LA1 (1 min):</u> 45	Day – 1.5 hrs	Y	Y	N	Y	
	22/11/2022 ³	N.M	25	25	28		Evening – 0.5 hrs	Y	Y	Y	Y	
	23/11/2022 ³	29	N/M	26	30		Night – 1 hr	Y	Y	Y	Y	

Note 1: Property is owned by Narrabri Coal Operations. Noise limits contained 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 are not applicable.

Note 2: Noise levels presented are the highest measured noise level under standard weather conditions over the monitoring period

Note 3: Evening and Night monitoring conducted on this date, Day monitoring conducted during the following day period.

Figure 1 – EPL 12789 Monitoring Locations

