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 2024
Obtained Date: 08/02/2024
Publication Date: 15/02/2024

Table 1 – No Pollutant Limits Apply

EPL ID	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	12/01/2024	08/02/2024	NA	NA	NA	0.9
11 (SD4)	Conductivity	µs/cm	In situ	Upon discharge (within 12 hours)	*No discharge occurred during sampling period (SD4)*						
	TOC	mg/L	Lab Analysis								
13 (SD2)	Conductivity	µs/cm	In situ	Upon discharge (within 12 hours)	*No discharge occurred during sampling period (SD2)*						
	TOC	mg/L	Lab Analysis								
14 (KC1US)	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 (KC1DS)	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 (KC2US)	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 (KC2DS)	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 (SD7)	Conductivity	µs/cm	In Situ	Upon discharge (within 12 hours)	*No discharge occurred during sampling period (SD7)*
	TOC	mg/L	Lab Analysis		
19 (KCUS)	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 (KCDS)	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 (PCa)	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 (PCa)*
	TOC	mg/L	Lab Analysis			
	Oil & Grease	mg/L	Lab Analysis			
	pH	pH	In situ			
	TSS	mg/L	Lab Analysis			
22 (PC1)	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 (PC1)*
	TOC	mg/L	Lab Analysis			
	Oil & Grease	mg/L	Lab Analysis			
	pH	pH	In situ			
	TSS	mg/L	Lab Analysis			
24 (NR1)	pH	pH	In situ	Upon Discharge (within 4 hrs)		*Namoi discharge point – Not constructed or currently utilised (NR1)*
	TDS	mg/L	Lab Analysis			
25 (NRUS)	pH	pH	In situ	Upon Discharge (within 4 hrs)		*Namoi discharge point – Not constructed or currently utilised (NRUS)*
	TDS	mg/L	Lab Analysis			
26 (NRDS)	pH	pH	In situ	Upon Discharge (within 4 hrs)		*Namoi discharge point – Not constructed or currently utilised (NRDS)*
	TDS	mg/L	Lab Analysis			
28 (P28)	Conductivity	µs/cm	In situ	Quarterly	0	*Not scheduled for sampling 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	
	Sulphate	mg/L	Lab Analysis		0	
29 *(P29)*	Conductivity	µs/cm	Lab Analysis	Quarterly	0	*Not scheduled for sampling during sampling period*
	pH	pH	Lab Analysis		0	
	SWL	mbtoc	Lab Analysis		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	

	Sulphate	mg/L	Lab Analysis		0	
30 *(P30)*	Conductivity	µs/cm	Lab Analysis	Quarterly	0	*Not scheduled for sampling during sampling period*
	pH	pH	Lab Analysis		0	
	SWL	mbtoc	Lab Analysis		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	
	Sulphate	mg/L	Lab Analysis		0	
31 *(P31)*	Conductivity	µs/cm	Lab Analysis	Quarterly	0	*Not scheduled for sampling during sampling period*
	pH	pH	Lab Analysis		0	
	SWL	mbtoc	Lab Analysis		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	
	Sulphate	mg/L	Lab Analysis		0	
32 *(P32)*	Conductivity	µs/cm	Lab Analysis	Quarterly	0	*Not scheduled for sampling during sampling period*
	pH	pH	Lab Analysis		0	
	SWL	mbtoc	Lab Analysis		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	
	Sulphate	mg/L	Lab Analysis		0	

33 *(P33)*	Conductivity	µs/cm	Lab Analysis	Quarterly	0	*Not scheduled for sampling during sampling period*
	pH	pH	Lab Analysis		0	
	SWL	mbtoc	Lab Analysis		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	
	Sulphate	mg/L	Lab Analysis		0	
34 *(P34)*	Conductivity	µs/cm	In situ	Quarterly	0	*Not scheduled for sampling 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	
	Sulphate	mg/L	Lab Analysis		0	
35 *(P58)*	Conductivity	µs/cm	Lab Analysis	Quarterly	0	*Not scheduled for sampling during sampling period*
	pH	pH	Lab Analysis		0	
	SWL	mbtoc	Lab Analysis		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	
36 *(P83)*	Conductivity	µs/cm	In situ	Quarterly	0	*Not scheduled for sampling 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	
	Sulphate	mg/L	Lab Analysis		0	
37 *(P84)*	Conductivity	µs/cm	In situ	Quarterly	0	*Not scheduled for sampling 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	
	Sulphate	mg/L	Lab Analysis		0	
38 *(P85)*	Conductivity	µs/cm	In situ		0	
	pH	pH	In situ		0	
	SWL	mbtoc	In situ		0	

	Bicarbonate	mg/L	Lab Analysis	Quarterly	0	*Not scheduled for sampling during sampling period*
	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	
39 *(P88)*	Conductivity	µs/cm	In situ	Quarterly	0	*Not scheduled for sampling 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	

40 *(P89)*	Conductivity	µs/cm	In situ	Quarterly	0	*Not scheduled for sampling 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	
	Sulphate	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 or Only Value	EPL Limit	Exceedance (Yes/No)	Comments (Mine Site Sample ID)
11	TSS	mg/L	Lab Analysis	Upon discharge	0	*No discharge occurred during sampling period*					50	NA	SD4
	Oil & Grease	mg/L	Lab Analysis		0						10	NA	
	pH	pH	In situ		0						6.5-8.5	NA	
13	TSS	mg/L	Lab Analysis	Upon discharge	0	*No discharge occurred during sampling period*					50	NA	SD2
	Oil & Grease	mg/L	Lab Analysis		0						10	NA	
	pH	pH	In situ		0						6.5-8.5	NA	
18	TSS	mg/L	Lab Analysis	Upon discharge	0	*No discharge occurred during sampling period*					50	NA	SD7
	Oil & Grease	mg/L	Lab Analysis		0						10	NA	
	pH	pH	In situ		0						6.5-8.5	NA	
24	TDS	mg/L	Lab Analysis	Upon discharge	0	*Namoi discharge point – Not constructed or currently utilised.*					350	NA	NR1
	pH	pH	In situ		0						6.5-8.5	NA	
27	TSS	mg/L	Lab Analysis	Upon discharge	0	*No discharge occurred during sampling period*					50	NA	SD8
	Oil & Grease	mg/L	Lab Analysis		0						10	NA	
	pH	pH	In situ		0						6.5-8.5	NA	

Table 3 – Quarterly Attended Noise Monitoring results summary table

Nosie monitoring not scheduled in January. Next scheduled sampling is for March 2024.

EPL ID	Date	Measured Levels – dB(A) $L_{eq\ 15min\ Day}$	Measured Levels – dB(A) $L_{eq\ 15min\ Evening}$	Measured Levels – dB(A) $L_{eq\ 15min\ Night}$	Measured Levels – dB(A) $L_{A1\ (1\ min)\ Night}$	Limit(s)	Measurement Periods	Weather Compliant Conditions (D/E/N)			Compliant (Yes/No)	Date Obtained
N5[1]						Day, Evening & Night: 35 Night $L_{A1\ (1\ min)}$: 45	Day – 1.5 hrs					
							Evening – 0.5 hrs					
							Night – 1 hr					
N6						Day, Evening & Night: 35 Night $L_{A1\ (1\ min)}$: 45	Day – 1.5 hrs					
							Evening – 0.5 hrs					
							Night – 1 hr					
N8[1]						Day, Evening & Night: 35 Night $L_{A1\ (1\ min)}$: 45	Day – 1.5 hrs					
							Evening – 0.5 hrs					
							Night – 1 hr					
N9[1]						Day, Evening & Night: 35 Night $L_{A1\ (1\ min)}$: 45	Day – 1.5 hrs					
							Evening – 0.5 hrs					
							Night – 1 hr					

Figure 1 – EPL 12789 Monitoring Locations

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Site Information

EPL No: 12789
EPA Website Link: http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=106922&SYSUID=1&LICID=12789
Licensee: Narrabri Coal Operations Pty Ltd
Licensee Address: Narrabri Mine, 10 Kurrajong Creek Road, BAAN BAA NSW 2390
EPL Monitoring Points: See Figure 1 below
Sampling Period: February 2024
Obtained Date: 14/03/2024
Publication Date: 19/03/2024

Table 1 – No Pollutant Limits Apply

EPL ID	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	15/02/2024	14/03/2024	NA	NA	NA	0.5
11 (SD4)	Conductivity	µs/cm	In situ	Upon discharge (within 12 hours)	*No discharge occurred during sampling period (SD4)*						
	TOC	mg/L	Lab Analysis								
13 (SD2)	Conductivity	µs/cm	In situ	Upon discharge (within 12 hours)	*No discharge occurred during sampling period (SD2)*						
	TOC	mg/L	Lab Analysis								
14 (KC1US)	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 (KC1DS)	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 (KC2US)	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 (KC2DS)	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 (SD7)	Conductivity	µs/cm	In Situ	Upon discharge (within 12 hours)	*No discharge occurred during sampling period (SD7)*
	TOC	mg/L	Lab Analysis		
19 (KCUS)	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 (KCDS)	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 (PCa)	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 (PCa)*
	TOC	mg/L	Lab Analysis			
	Oil & Grease	mg/L	Lab Analysis			
	pH	pH	In situ			
	TSS	mg/L	Lab Analysis			
22 (PC1)	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 (PC1)*
	TOC	mg/L	Lab Analysis			
	Oil & Grease	mg/L	Lab Analysis			
	pH	pH	In situ			
	TSS	mg/L	Lab Analysis			
24 (NR1)	pH	pH	In situ	Upon Discharge (within 4 hrs)		*Namoi discharge point – Not constructed or currently utilised (NR1)*
	TDS	mg/L	Lab Analysis			
25 (NRUS)	pH	pH	In situ	Upon Discharge (within 4 hrs)		*Namoi discharge point – Not constructed or currently utilised (NRUS)*
	TDS	mg/L	Lab Analysis			
26 (NRDS)	pH	pH	In situ	Upon Discharge (within 4 hrs)		*Namoi discharge point – Not constructed or currently utilised (NRDS)*
	TDS	mg/L	Lab Analysis			
28 (P28)	Conductivity	µs/cm	In situ	Quarterly	0	*Not scheduled for sampling 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	
	Sulphate	mg/L	Lab Analysis		0	
29 *(P29)*	Conductivity	µs/cm	Lab Analysis	Quarterly	0	*Not scheduled for sampling during sampling period*
	pH	pH	Lab Analysis		0	
	SWL	mbtoc	Lab Analysis		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	

	Sulphate	mg/L	Lab Analysis		0	
30 *(P30)*	Conductivity	µs/cm	Lab Analysis	Quarterly	0	*Not scheduled for sampling during sampling period*
	pH	pH	Lab Analysis		0	
	SWL	mbtoc	Lab Analysis		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	
	Sulphate	mg/L	Lab Analysis		0	
31 *(P31)*	Conductivity	µs/cm	Lab Analysis	Quarterly	0	*Not scheduled for sampling during sampling period*
	pH	pH	Lab Analysis		0	
	SWL	mbtoc	Lab Analysis		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	
	Sulphate	mg/L	Lab Analysis		0	
32 *(P32)*	Conductivity	µs/cm	Lab Analysis	Quarterly	0	*Not scheduled for sampling during sampling period*
	pH	pH	Lab Analysis		0	
	SWL	mbtoc	Lab Analysis		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	
	Sulphate	mg/L	Lab Analysis		0	

33 *(P33)*	Conductivity	µs/cm	Lab Analysis	Quarterly	0	*Not scheduled for sampling during sampling period*
	pH	pH	Lab Analysis		0	
	SWL	mbtoc	Lab Analysis		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	
	Sulphate	mg/L	Lab Analysis		0	
34 *(P34)*	Conductivity	µs/cm	In situ	Quarterly	0	*Not scheduled for sampling 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	
	Sulphate	mg/L	Lab Analysis		0	
35 *(P58)*	Conductivity	µs/cm	Lab Analysis	Quarterly	0	*Not scheduled for sampling during sampling period*
	pH	pH	Lab Analysis		0	
	SWL	mbtoc	Lab Analysis		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	
36 *(P83)*	Conductivity	µs/cm	In situ	Quarterly	0	*Not scheduled for sampling 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	
	Sulphate	mg/L	Lab Analysis		0	
37 *(P84)*	Conductivity	µs/cm	In situ	Quarterly	0	*Not scheduled for sampling 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	
	Sulphate	mg/L	Lab Analysis		0	
38 *(P85)*	Conductivity	µs/cm	In situ		0	
	pH	pH	In situ		0	
	SWL	mbtoc	In situ		0	

	Bicarbonate	mg/L	Lab Analysis	Quarterly	0	*Not scheduled for sampling during sampling period*
	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	
39 *(P88)*	Conductivity	µs/cm	In situ	Quarterly	0	*Not scheduled for sampling 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	

40 *(P89)*	Conductivity	µs/cm	In situ	Quarterly	0	*Not scheduled for sampling 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	
	Sulphate	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 or Only Value	EPL Limit	Exceedance (Yes/No)	Comments (Mine Site Sample ID)
11	TSS	mg/L	Lab Analysis	Upon discharge	0	*No discharge occurred during sampling period*					50	NA	SD4
	Oil & Grease	mg/L	Lab Analysis		0						10	NA	
	pH	pH	In situ		0						6.5-8.5	NA	
13	TSS	mg/L	Lab Analysis	Upon discharge	0	*No discharge occurred during sampling period*					50	NA	SD2
	Oil & Grease	mg/L	Lab Analysis		0						10	NA	
	pH	pH	In situ		0						6.5-8.5	NA	
18	TSS	mg/L	Lab Analysis	Upon discharge	0	*No discharge occurred during sampling period*					50	NA	SD7
	Oil & Grease	mg/L	Lab Analysis		0						10	NA	
	pH	pH	In situ		0						6.5-8.5	NA	
24	TDS	mg/L	Lab Analysis	Upon discharge	0	*Namoi discharge point – Not constructed or currently utilised.*					350	NA	NR1
	pH	pH	In situ		0						6.5-8.5	NA	
27	TSS	mg/L	Lab Analysis	Upon discharge	0	*No discharge occurred during sampling period*					50	NA	SD8
	Oil & Grease	mg/L	Lab Analysis		0						10	NA	
	pH	pH	In situ		0						6.5-8.5	NA	

Table 3 – Quarterly Attended Noise Monitoring results summary table

Nosie monitoring not scheduled in February. Next scheduled sampling is for March 2024.

EPL ID	Date	Measured Levels – dB(A) $L_{eq\ 15min\ Day}$	Measured Levels – dB(A) $L_{eq\ 15min\ Evening}$	Measured Levels – dB(A) $L_{eq\ 15min\ Night}$	Measured Levels – dB(A) $L_{A1\ (1\ min)\ Night}$	Limit(s)	Measurement Periods	Weather Compliant Conditions (D/E/N)			Compliant (Yes/No)	Date Obtained
N5[1]						Day, Evening & Night: 35 Night $L_{A1\ (1\ min)}$: 45	Day – 1.5 hrs					
							Evening – 0.5 hrs					
							Night – 1 hr					
N6						Day, Evening & Night: 35 Night $L_{A1\ (1\ min)}$: 45	Day – 1.5 hrs					
							Evening – 0.5 hrs					
							Night – 1 hr					
N8[1]						Day, Evening & Night: 35 Night $L_{A1\ (1\ min)}$: 45	Day – 1.5 hrs					
							Evening – 0.5 hrs					
							Night – 1 hr					
N9[1]						Day, Evening & Night: 35 Night $L_{A1\ (1\ min)}$: 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: March 2024
Obtained Date: 9/4/2024
Publication Date: 19/04/2024

Table 1 – No Pollutant Limits Apply

EPL ID	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	14/03/2024	03/04/2024	NA	NA	NA	0.5
11 (SD4)	Conductivity	µs/cm	In situ	Upon discharge (within 12 hours)	*No discharge occurred during sampling period (SD4)*						
	TOC	mg/L	Lab Analysis								
13 (SD2)	Conductivity	µs/cm	In situ	Upon discharge (within 12 hours)	*No discharge occurred during sampling period (SD2)*						
	TOC	mg/L	Lab Analysis								
	TOC	mg/L	Lab Analysis								
14 (KC1US)	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27, 43	0	Ambient Flow 20/03/24 (quarterly check completed, no flow)		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
15 (KC1DS)	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27, 43	0	Ambient Flow 20/03/24 (quarterly check completed, no flow)		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

16 (KC2US)	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27, 43	0	Ambient Flow 20/03/24 (quarterly check completed, no flow)	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
17 (KC2DS)	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27,43	0	Ambient Flow 20/03/24 (quarterly check completed, no flow)	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
18 (SD7)	Conductivity	µs/cm	In Situ	Upon discharge (within 12 hours)	*No discharge occurred during sampling period (SD7)*					
	TOC	mg/L	Lab Analysis							
19 (KCUS)	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27,43	0	Ambient Flow 20/03/24 (quarterly check completed, no flow)	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
20 (KCDS)	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather	0	Ambient Flow 20/03/24 (quarterly check completed, no flow)	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	discharge from points 11, 13, 18,27,43	0		NA	NA	NA	NA
	TSS	mg/L	Lab Analysis		0		NA	NA	NA	NA
21 (PCa)	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27,43	*0*	Ambient Flow 20/03/24 (quarterly check completed, no flow	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 (PC1)	Conductivity	µs/cm	In situ	In the event of flow during the quarter & after each wet weather discharge from points 11, 13, 18,27,43	*0*	Ambient Flow 20/03/24 (quarterly check completed, no flow	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
24 (NR1)	pH	pH	In situ	Upon Discharge (within 4 hrs)	*Namoi discharge point – Not constructed or currently utilised (NR1)*					
	TDS	mg/L	Lab Analysis							
25 (NRUS)	pH	pH	In situ	Upon Discharge (within 4 hrs)	*Namoi discharge point – Not constructed or currently utilised (NRUS)*					
	TDS	mg/L	Lab Analysis							
26 (NRDS)	pH	pH	In situ	Upon Discharge (within 4 hrs)	*Namoi discharge point – Not constructed or currently utilised (NRDS)*					
	TDS	mg/L	Lab Analysis							
28 (P28)	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						
	Sulphate	mg/L	Lab Analysis		0						
29 *(P29)*	Conductivity	µs/cm	In situ	Quarterly	1	20/03/2024	05/04/2024	NA	NA	NA	16460
	pH	pH	In situ		1	20/03/2024	05/04/2024	NA	NA	NA	7.38
	SWL	mbtoc	In situ		1	20/03/2024	05/04/2024	NA	NA	NA	5.18
	Bicarbonate	mg/L	Lab Analysis		1	20/03/2024	05/04/2024	NA	NA	NA	652
	Calcium	mg/L	Lab Analysis		1	20/03/2024	05/04/2024	NA	NA	NA	126
	Carbonate	mg/L	Lab Analysis		1	20/03/2024	05/04/2024	NA	NA	NA	<1
	Chloride	mg/L	Lab Analysis		1	20/03/2024	05/04/2024	NA	NA	NA	5050
	Magnesium	mg/L	Lab Analysis		1	20/03/2024	05/04/2024	NA	NA	NA	284
	Potassium	mg/L	Lab Analysis		1	20/03/2024	05/04/2024	NA	NA	NA	6
	Sodium	mg/L	Lab Analysis		1	20/03/2024	05/04/2024	NA	NA	NA	3090

	Sulphate	mg/L	Lab Analysis		1	20/03/2024	05/04/2024	NA	NA	NA	606
30 *(P30)*	Conductivity	µs/cm	In situ	Quarterly	1	20/03/2024	05/04/2024	NA	NA	NA	16800
	pH	pH	In situ		1	20/03/2024	05/04/2024	NA	NA	NA	7.1
	SWL	mbtoc	In situ		1	20/03/2024	05/04/2024	NA	NA	NA	12.07
	Bicarbonate	mg/L	Lab Analysis		1	20/03/2024	05/04/2024	NA	NA	NA	856
	Calcium	mg/L	Lab Analysis		1	20/03/2024	05/04/2024	NA	NA	NA	146
	Carbonate	mg/L	Lab Analysis		1	20/03/2024	05/04/2024	NA	NA	NA	<1
	Chloride	mg/L	Lab Analysis		1	20/03/2024	05/04/2024	NA	NA	NA	4850
	Magnesium	mg/L	Lab Analysis		1	20/03/2024	05/04/2024	NA	NA	NA	357
	Potassium	mg/L	Lab Analysis		1	20/03/2024	05/04/2024	NA	NA	NA	17
	Sodium	mg/L	Lab Analysis		1	20/03/2024	05/04/2024	NA	NA	NA	3160
	Sulphate	mg/L	Lab Analysis		1	20/03/2024	05/04/2024	NA	NA	NA	813
31 *(P31)*	Conductivity	µs/cm	In situ	Quarterly	1	20/03/2024	05/04/2024	NA	NA	NA	6760
	pH	pH	In situ		1	20/03/2024	05/04/2024	NA	NA	NA	7.31
	SWL	mbtoc	In situ		1	20/03/2024	05/04/2024	NA	NA	NA	16.47
	Bicarbonate	mg/L	Lab Analysis		1	20/03/2024	05/04/2024	NA	NA	NA	837
	Calcium	mg/L	Lab Analysis		1	20/03/2024	05/04/2024	NA	NA	NA	86
	Carbonate	mg/L	Lab Analysis		1	20/03/2024	05/04/2024	NA	NA	NA	<1
	Chloride	mg/L	Lab Analysis		1	20/03/2024	05/04/2024	NA	NA	NA	1650

	Magnesium	mg/L	Lab Analysis		1	20/03/2024	05/04/2024	NA	NA	NA	161
	Potassium	mg/L	Lab Analysis		1	20/03/2024	05/04/2024	NA	NA	NA	12
	Sodium	mg/L	Lab Analysis		1	20/03/2024	05/04/2024	NA	NA	NA	1210
	Sulphate	mg/L	Lab Analysis		1	20/03/2024	05/04/2024	NA	NA	NA	287
32 *(P32)*	Conductivity	µs/cm	In situ	Quarterly	1	20/03/2024	05/04/2024	NA	NA	NA	1989
	pH	pH	In situ		1	20/03/2024	05/04/2024	NA	NA	NA	8.29
	SWL	mbtoc	In situ		1	20/03/2024	05/04/2024	NA	NA	NA	8.16
	Bicarbonate	mg/L	Lab Analysis		1	20/03/2024	05/04/2024	NA	NA	NA	835
	Calcium	mg/L	Lab Analysis		1	20/03/2024	05/04/2024	NA	NA	NA	2
	Carbonate	mg/L	Lab Analysis		1	20/03/2024	05/04/2024	NA	NA	NA	43
	Chloride	mg/L	Lab Analysis		1	20/03/2024	05/04/2024	NA	NA	NA	101
	Magnesium	mg/L	Lab Analysis		1	20/03/2024	05/04/2024	NA	NA	NA	5
	Potassium	mg/L	Lab Analysis		1	20/03/2024	05/04/2024	NA	NA	NA	<1
	Sodium	mg/L	Lab Analysis		1	20/03/2024	05/04/2024	NA	NA	NA	501
	Sulphate	mg/L	Lab Analysis		1	20/03/2024	05/04/2024	NA	NA	NA	62
33	Conductivity	µs/cm	In situ	Quarterly	0	20/03/2024	05/04/2024	NA	NA	NA	16490
	pH	pH	In situ		0	20/03/2024	05/04/2024	NA	NA	NA	7.23
	SWL	mbtoc	In situ		0	20/03/2024	05/04/2024	NA	NA	NA	15.28
	Bicarbonate	mg/L	Lab Analysis		0	20/03/2024	05/04/2024	NA	NA	NA	774
	Calcium	mg/L	Lab Analysis		0	20/03/2024	05/04/2024	NA	NA	NA	94

(P33)	Carbonate	mg/L	Lab Analysis		0	20/03/2024	05/04/2024	NA	NA	NA	<1
	Chloride	mg/L	Lab Analysis		0	20/03/2024	05/04/2024	NA	NA	NA	5090
	Magnesium	mg/L	Lab Analysis		0	20/03/2024	05/04/2024	NA	NA	NA	287
	Potassium	mg/L	Lab Analysis		0	20/03/2024	05/04/2024	NA	NA	NA	12
	Sodium	mg/L	Lab Analysis		0	20/03/2024	05/04/2024	NA	NA	NA	3500
	Sulphate	mg/L	Lab Analysis		0	20/03/2024	05/04/2024	NA	NA	NA	893
34 *(P34)*	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						
	Sulphate	mg/L	Lab Analysis		0						
35 *(P58)*	Conductivity	µs/cm	In situ	Quarterly	1	20/03/2024	05/04/2024	NA	NA	NA	11960
	pH	pH	In situ		1	20/03/2024	05/04/2024	NA	NA	NA	6.93
	SWL	mbtoc	In situ		1	20/03/2024	05/04/2024	NA	NA	NA	19.95

	Bicarbonate	mg/L	Lab Analysis		1	20/03/2024	05/04/2024	NA	NA	NA	4940
	Calcium	mg/L	Lab Analysis		1	20/03/2024	05/04/2024	NA	NA	NA	37
	Carbonate	mg/L	Lab Analysis		1	20/03/2024	05/04/2024	NA	NA	NA	<1
	Chloride	mg/L	Lab Analysis		1	20/03/2024	05/04/2024	NA	NA	NA	1590
	Magnesium	mg/L	Lab Analysis		1	20/03/2024	05/04/2024	NA	NA	NA	70
	Potassium	mg/L	Lab Analysis		1	20/03/2024	05/04/2024	NA	NA	NA	79
	Sodium	mg/L	Lab Analysis		1	20/03/2024	05/04/2024	NA	NA	NA	2990
	Sulfate	mg/L	Lab Analysis		1	20/03/2024	05/04/2024	NA	NA	NA	100
36 *(P83)*	Conductivity	µs/cm	In situ	Monthly	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						
	Sulphate	mg/L	Lab Analysis		0						

37 *(P84)*	Conductivity	µs/cm	In situ	Monthly	1	19/03/2024	08/04/2024	NA	NA	NA	18850
	pH	pH	In situ		1	19/03/2024	08/04/2024	NA	NA	NA	6.75
	SWL	mbtoc	In situ		1	19/03/2024	08/04/2024	NA	NA	NA	13.57
	Bicarbonate	mg/L	Lab Analysis		1	19/03/2024	08/04/2024	NA	NA	NA	2630
	Calcium	mg/L	Lab Analysis		1	19/03/2024	08/04/2024	NA	NA	NA	99
	Carbonate	mg/L	Lab Analysis		1	19/03/2024	08/04/2024	NA	NA	NA	<1
	Chloride	mg/L	Lab Analysis		1	19/03/2024	08/04/2024	NA	NA	NA	6140
	Magnesium	mg/L	Lab Analysis		1	19/03/2024	08/04/2024	NA	NA	NA	383
	Potassium	mg/L	Lab Analysis		1	19/03/2024	08/04/2024	NA	NA	NA	36
	Sodium	mg/L	Lab Analysis		1	19/03/2024	08/04/2024	NA	NA	NA	4490
	Sulphate	mg/L	Lab Analysis		1	19/03/2024	08/04/2024	NA	NA	NA	1140
38 *(P85)*	Conductivity	µs/cm	In situ	Monthly	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	
39 *(P88)*	Conductivity	µs/cm	In situ	Monthly	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	
40 *(P89)*	Conductivity	µs/cm	In situ	Monthly	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	
	Sulphate	mg/L	Lab Analysis		0	
43	Conductivity	µs/cm	In situ	Upon discharge (within 12 hours)	0	*No discharge occurred during sampling period (SD9)*
	TOC	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 or Only Value	EPL Limit	Exceedance (Yes/No)	Comments (Mine Site Sample ID)
11	TSS	mg/L	Lab Analysis	Upon discharge	0	*No discharge occurred during sampling period*					50	NA	SD4
	Oil & Grease	mg/L	Lab Analysis		0						10	NA	
	pH	pH	In situ		0						6.5-8.5	NA	
13	TSS	mg/L	Lab Analysis	Upon discharge	0	*No discharge occurred during sampling period*					50	NA	SD2
	Oil & Grease	mg/L	Lab Analysis		0						10	NA	
	pH	pH	In situ		0						6.5-8.5	NA	
18	TSS	mg/L	Lab Analysis	Upon discharge	0	*No discharge occurred during sampling period*					50	NA	SD7
	Oil & Grease	mg/L	Lab Analysis		0						10	NA	
	pH	pH	In situ		0						6.5-8.5	NA	
24	TDS	mg/L	Lab Analysis	Upon discharge	0	*Namoi discharge point – Not constructed or currently utilised.*					350	NA	NR1
	pH	pH	In situ		0						6.5-8.5	NA	
27	TSS	mg/L	Lab Analysis	Upon discharge	0	*No discharge occurred during sampling period*					50	NA	SD8
	Oil & Grease	mg/L	Lab Analysis		0						10	NA	
	pH	pH	In situ		0						6.5-8.5	NA	

Table 3 – Quarterly Attended Noise Monitoring results summary table

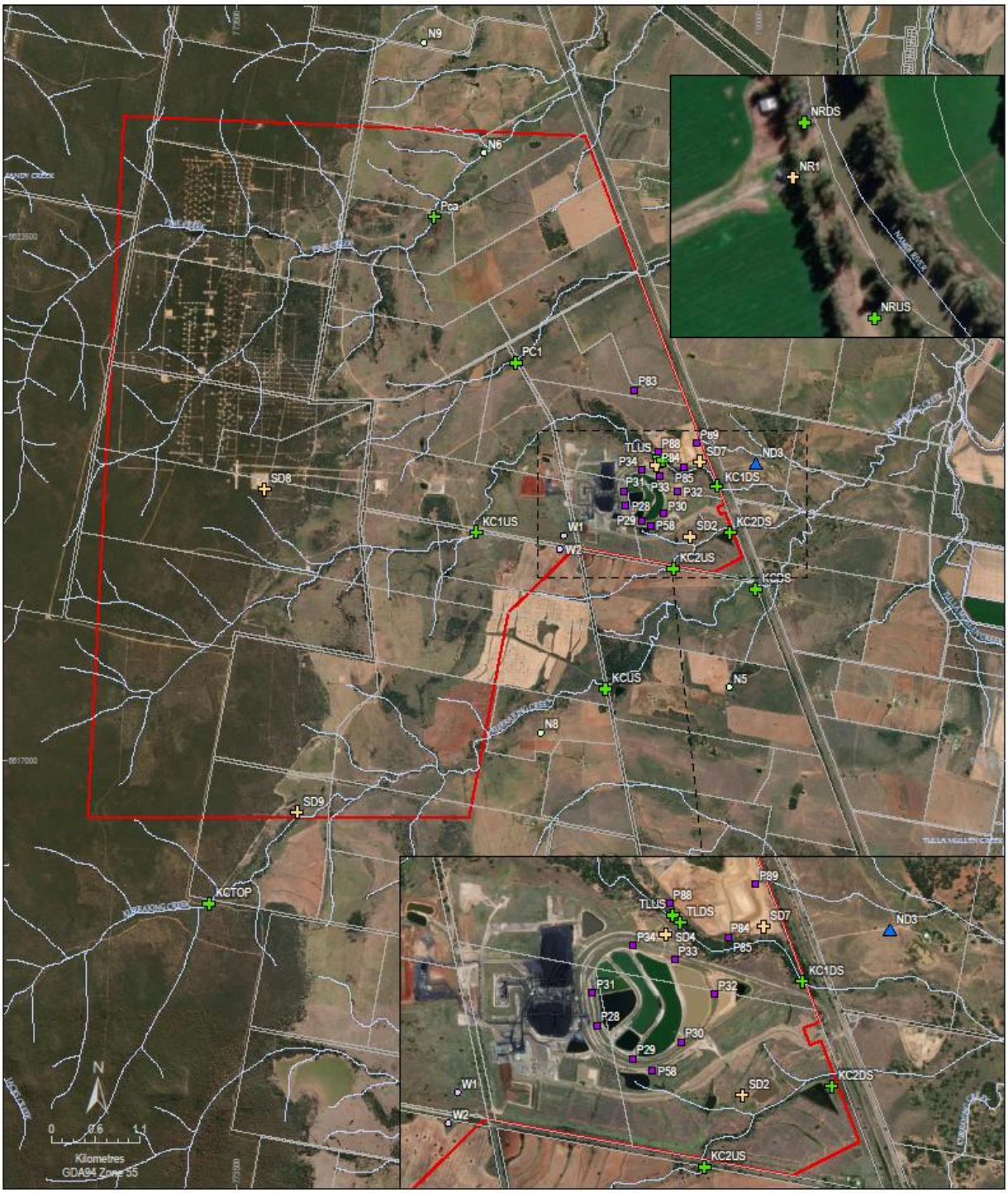
EPL ID	Date	Measured Levels – dB(A) $L_{eq\ 15min\ Day}$	Measured Levels – dB(A) $L_{eq\ 15min}$ Evening	Measured Levels – dB(A) $L_{eq\ 15min\ Night}$	Measured Levels – dB(A) $L_{A1\ (1\ min)\ Night}$	Limit(s)	Measurement Periods	Weather Compliant Conditions (D/E/N)			Compliant (Yes/No)	Date Obtained
N5[1]	11/03/2024	I/A	I/A	25	30	Day, Evening & Night: 35 Night $L_{A1\ (1\ min)}$: 45	Day – 1.5 hrs	Y	Y	Y	Y	9/04/2024
	12/03/2024	I/A	I/A	N/M	N/M		Evening – 0.5 hrs	Y	Y	N	Y	
	13/03/2024	I/A	I/A	N/M	N/M		Night – 1 hr	Y	N	N	Y	
N6	11/03/2024[2]	I/A	N/M	N/M	N/M	Day, Evening & Night: 35 Night $L_{A1\ (1\ min)}$: 45	Day – 1.5 hrs	Y	Y	N	Y	
	12/03/2024[2]	30	I/A	27	33		Evening – 0.5 hrs	Y	Y	N	Y	
	13/03/2024[2]	27	N/M	31	38		Night – 1 hr	Y	N	Y	Y	
N8[1]	11/03/2024	I/A	34	33	40	Day, Evening & Night: 35 Night $L_{A1\ (1\ min)}$: 45	Day – 1.5 hrs	Y	N	Y	Y	
	12/03/2024	I/A	32	33	34		Evening – 0.5 hrs	Y	N	Y	Y	
	13/03/2024	25	I/A	31	39		Night – 1 hr	Y	Y	Y	Y	
N9[1]	11/03/2024	I/A	I/A	I/A	I/A	Day, Evening & Night: 35 Night $L_{A1\ (1\ min)}$: 45	Day – 1.5 hrs	Y	Y	Y	Y	
	12/03/2024	I/A	I/A	28	29		Evening – 0.5 hrs	Y	Y	Y	Y	
	13/03/2024	I/A	I/A	32	36		Night – 1 hr	Y	Y	N	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: Evening and Night monitoring conducted on this date, Day monitoring conducted during the following day period.

Figure 1 – EPL 12789 Monitoring Locations



WHITEHAVEN COAL

ONWARD CONSULTING

LEGEND

- ML1609
- Lot boundary
- Watercourses

Monitoring locations

- Surface water quality monitoring
- Licenced discharge point
- Ambient air quality monitoring
- Groundwater monitoring - standpipe single
- Meteorological station
- Noise monitoring

NARRABRI MINE

Figure 1

EPL 12789 Monitoring Locations
February 2024