

#### **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 2021Obtained Date:29 January 2021Publication Date:04 February 2021

				l	1 – No Pollutant		Í					
EPL	Pollutant	Units of	Sample	Monitoring	No. of Samples	Date	Date	Min	Mean	Median	Max or	
		Measure	Method	Frequency	for the Month	Sampled	Obtained	Value	Value	Value	Only Value	
ND3	Deposited Matter	g/m²/month	Lab Analysis	Once a month (min. 4 weeks)	1	13/01/21	29/01/21	NA	NA	NA	0.8	
11	Conductivity	μs/cm	In situ	Upon discharge	0		No disabas	ge occurred du	rina lanuari	2021 (CD4)		
11	тос	mg/L	Lab Analysis	(within 12 hours)	O		NO discharg	je occurreu ut	iring Junuary	2021 (304).		
12	Conductivity	μs/cm	In situ	Upon discharge	0		No dia da se			2024 (CD2)		
13	тос	mg/L	Lab Analysis	(within 12 hours)	0		ivo aiscnar <u>g</u>	ge occurred du	ırıng January	2021 (SD2).		
	Conductivity	μs/cm	In situ		0							
	TOC	mg/L	Lab Analysis	Quarterly,	0							
14	Oil & Grease	mg/L	Lab Analysis	Upon discharge &	0	No flow e	events and/or m	ine discharge	occurred dur	ing January 20.	21 (KC1US)	
	рН	рН	In situ	Flow Event	0							
	TSS	mg/L	Lab Analysis		0							
	Conductivity	μs/cm	In situ		0							
	TOC	mg/L	Lab Analysis	Quarterly,	0							
15	Oil & Grease	mg/L	Lab Analysis	Upon discharge &	0	No flow 6	event and/or m	ine discharge	occurred duri	ng January 202	21 (KC1DS)	
	рН	рН	In situ	Flow Event	0							
	TSS	mg/L	Lab Analysis		0							
	Conductivity	μs/cm	In situ		0							
	TOC	mg/L	Lab Analysis	Quarterly,	0							
16	Oil & Grease	mg/L	Lab Analysis	Upon discharge &	0	No flow e	events and/or m	ine discharge	occurred dur	ing January 20.	21 (KC2US)	
	рН	pН	In situ	Flow Event	0							
	TSS	mg/L	Lab Analysis		0							
	Conductivity	μs/cm	In situ	Quarterly,	0							
17	TOC	mg/L	Lab Analysis	Upon	0	No flow a	events and/or m	ine discharae	occurred dur	ina lanuary 20	21 (KC2DS)	
1,	Oil & Grease	mg/L	Lab Analysis	discharge &	0	INO JIOW E	vents unu/or m	me discharge	occurred dur	ing Junuary 20.	ZI (NCZDS)	
	рН	рН	In situ	Flow Event	0							

EPL	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
	TSS	mg/L	Lab Analysis		0						•
	Conductivity	μs/cm	In Situ	Upon discharge	0					,	
18	тос	mg/L	Lab Analysis	(within 12 hours)	0		No	ot currently co	onstructed (SI	07).	
	Conductivity	μs/cm	In situ		0						
	TOC	mg/L	Lab Analysis	Quarterly,	0						
19	Oil & Grease	mg/L	Lab Analysis	Upon discharge &	0	No flow 6	events and/or n	nine discharge	e occurred du	ring January 2	021 (KCUS)
	рН	рН	In situ	Flow Event	0						
	TSS	mg/L	Lab Analysis	11011 21011	0						
	Conductivity	μs/cm	In situ		0						
	TOC	mg/L	Lab Analysis	Quarterly,	0						
20	Oil & Grease	mg/L	Lab Analysis	Upon	0	No flow o	events and/or n	nine discharge	e occurred du	ring January 2	021 (KCDS)
	рН	рН	In situ	discharge & Flow Event	0						
	TSS	mg/L	Lab Analysis	TIOW EVEIL	0				arge occurred during January 2021 (KCUS) arge occurred during January 2021 (KCDS) arge occurred during January 2021 (PCa) arge occurred during January 2021 (PC1) arge occurred during January 2021 (PC1) arge occurred during January 2021 (PC1)		
	Conductivity	μs/cm	In situ		0						
	TOC	mg/L	Lab Analysis	Quarterly,	0						
21	Oil & Grease	mg/L	Lab Analysis	Upon discharge &	0	No flow	events and/or i	mine discharg	e occurred du	ıring January 2	2021 (PCa)
	рН	рН	In situ	Flow Event	0						
	TSS	mg/L	Lab Analysis	TIOW EVEIL	0						
	Conductivity	μs/cm	In situ		0						
	TOC	mg/L	Lab Analysis	Quarterly,	0						
22	Oil & Grease	mg/L	Lab Analysis	Upon discharge &	0	No flow	events and/or i	mine discharg	e occurred du	ıring January 2	2021 (PC1)
	рН	рН	In situ	Flow Event	0						
	TSS	mg/L	Lab Analysis	11011 21011	0						
24	рН	рН	In situ	Upon Discharge	0	Name	oi discharge poi	nt – Not cons	tructed or cu	rrently utilised	I (NR1).
	TDS	mg/L	Lab Analysis	(within 4 hrs)	0		5 12-5			,	, ,
25	рН	рН	In situ	Upon Discharge	0	Namo	i discharge noir	nt - Not const	ructed or cur	rently utilised	(NRUS)
25	TDS	mg/L	Lab Analysis	(within 4 hrs)	0	IVAIIIO	i discridi ge poli	it Not const	. acted of tul	Territy atmised	(141103).

EPL	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value		
26	рН	рН	In situ	Upon	0								
20	TDS	mg/L	Lab Analysis	Discharge (within 4 hrs)	0	Namo	i discharge poir	nt – Not const	ructed or curr	rently utilised	(NRDS).		
	Conductivity	μs/cm	In situ		0								
	рН	рН	In situ		0								
	SWL	-	In situ		0								
	Bicarbonate	mg/L	Lab Analysis		0								
	Calcium	mg/L	Lab Analysis		0								
28	Carbonate	mg/L	Lab Analysis	Quarterly	0		Not schedu	ıled for sampl	ing during Jar	nuary 2021.			
	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								
	Conductivity	μs/cm	In situ		0								
	рН	ctivity µs/cm Ir H pH Ir	In situ		0								
	SWL	mbtoc	In situ		0								
	Bicarbonate	mg/L	Lab Analysis		0								
	Calcium	mg/L	Lab Analysis		0								
29	Carbonate	mg/L	Lab Analysis	Quarterly	0		Not schedu	ıled for sampl	ing during Jar	nuary 2021.			
	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								
	Conductivity	μs/cm	In situ		0								
	рН	рН	In situ		0								
30	SWL	mbtoc	In situ	Quarterly	0		Not schod	ulad for campl	ing during Jar	wani 2021			
30	Bicarbonate	mg/L	Lab Analysis	Quarterly	0		พบเ รเกยนเ	ileu jui sumpi	ing during Jar	iuury 2021.			
	Calcium	mg/L	Lab Analysis		0								
	Carbonate	mg/L	Lab Analysis		0								

EPL	Pollutant	Units of	Sample	Monitoring	No. of Samples	Date	Date	Min	Mean	Median	Max or
		Measure	Method	Frequency	for the Month	Sampled	Obtained	Value	Value	Value	Only Value
	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						
	Conductivity	μs/cm	In situ		0						
	рН	рН	In situ		0						
	SWL	mbtoc	In situ		0						
	Bicarbonate	mg/L	Lab Analysis		0						
	Calcium	mg/L	Lab Analysis		0						
31	Carbonate	mg/L	Lab Analysis	Quarterly	0		Not schedu	uled for sampl	ling during Ja	nuary 2021.	
	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						
	Conductivity	μs/cm	In situ		0						
	рН	рН	In situ		0						
	SWL	mbtoc	In situ		0						
	Bicarbonate	mg/L	Lab Analysis		0						
	Calcium	mg/L	Lab Analysis		0						
32	Carbonate	mg/L	Lab Analysis	Quarterly	0		Not schedu	uled for sampl	ling during Ja	nuary 2021.	
	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						
	Conductivity	μs/cm	In situ		0						
22	рН	рН	In situ	Ou antamb	0		Nat ada - d	.ladfanan:	lina alcunina e les		
33	SWL	mbtoc	In situ	Quarterly	0		Not scheal	uled for sampl	ing auring Ja	nuary 2021.	
	Bicarbonate	mg/L	Lab Analysis								

EPL	Pollutant	Units of	Sample	Monitoring	No. of Samples	Date	Date	Min	Mean	Median	Max or
	Pollutant	Measure	Method	Frequency	for the Month	Sampled	Obtained	Value	Value	Value	Only Value
	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						
	Conductivity	μs/cm	In situ		0						
	рН	рН	In situ		0						
	SWL	mbtoc	In situ		0						
	Bicarbonate	mg/L	Lab Analysis		0						
	Calcium	mg/L	Lab Analysis		0						
34	Carbonate	mg/L	Lab Analysis	Quarterly	0		Not schedu	uled for samp	ling during Jai	nuary 2021.	
	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						
	Conductivity	μs/cm	In situ		0						
	рН	рН	In situ		0						
	SWL	mbtoc	In situ		0						
	Bicarbonate	mg/L	Lab Analysis		0						
	Calcium	mg/L	Lab Analysis		0						
35	Carbonate	mg/L	Lab Analysis	Quarterly	0		Not schedu	uled for samp	ling during Jai	nuary 2021.	
	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)

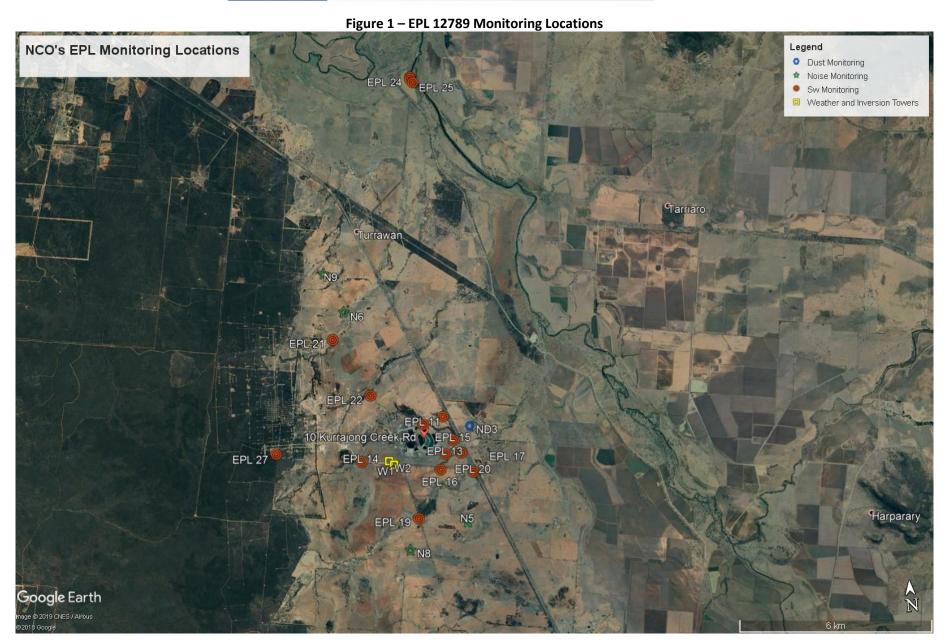
EPL ID	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Max Value	EPL Limit	Exceedance (Yes/No)	Comments (Mine Site Sample ID)
	TSS	mg/L	Lab Analysis	I I in a in	0						50	N/A	
11	Oil & Grease	mg/L	Lab Analysis	Upon discharge	0	No dis	charge occurr	ed during .	lanuary 20	021	10	N/A	SD4
	рН	рН	In situ	uischarge	0						6.5-8.5	N/A	
	TSS	mg/L	Lab Analysis		0						50	N/A	
13	Oil & Grease	mg/L	Lab Analysis	Upon	0	No dis	charge occurr	ed during .	lanuary 20	021	10	N/A	SD2
	рН	рН	In situ	discharge 0 6.5-8.5		N/A							
	TSS	mg/L	Lab Analysis		0						50	N/A	
18	Oil & Grease	mg/L	Lab Analysis	Upon discharge	0		Not current	ly construc	cted.		10	N/A	SD7
	рН	рН	In situ	uischarge	0						6.5-8.5	N/A	
2.4	TDS	mg/L	Lab Analysis	Upon	0	Namoi discl	narge point –	Not constr	ucted or c	urrently	350	N/A	ND4
24	рН	рН	In situ	discharge	0	Namoi discharge point – Not constructed or curre utilised.					6.5-8.5	N/A	NR1
	TSS	mg/L	Lab Analysis		0						50	N/A	
27	Oil & Grease	mg/L	Lab Analysis	Upon	0	No discharge occurred during January 2021			021	10	N/A	SD8	
	рН	рН	In situ	discharge	0		, , , , , , , , , , , , , , , , , , ,			6.5-8.5	N/A		



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

EPL ID	Date	Measure d Levels – dB(A) L <sub>eq 15min Day</sub>	Measured Levels – dB(A) Leq 15min Evening	Measured Levels — dB(A) Leq 15min Night	Measured Levels – dB(A) L <sub>A1 (1 min) Night</sub>	Limit(s) <sup>2,4</sup>	Measurement Periods	Weather Compliant Conditions (D/E/N)	Compliant <sup>1</sup> (Yes/No)	Date Obtained
N5						Day, Evening & Night: 35	Day – 1.5 hrs Evening – 0.5			
						<u>Night</u> <u>La1 (1 min):</u> 45	hrs Night – 1 hr			
						Day, Evening & Night:	Day – 1.5 hrs			
N6						35 <u>Night</u> L <sub>A1 (1 min):</sub>	Evening – 0.5 hrs			
						45	Night – 1 hr			
N8	Monitoring at N8	to commence	when surface ac	tivities approac	h the eastern en	d of the southern lon		urrently required.		
						Day, Evening & Night:	Day – 1.5 hrs			
N9						35 <u>Night</u>	Evening – 0.5 hrs			
						L <sub>A1 (1 min)</sub> : 45	Night – 1 hr			

Note: Quarterly attended noise monitoring will be undertaken prior to the end of March 2021. There are no results available at time of reporting.





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Licensee: Narrabri Coal Operations Pty Ltd

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

EPL Monitoring Points: See Figure 1 below
 Sampling Period: February 2021
 Obtained Date: 8 March 2021
 Publication Date: 11 March 2021

EPL	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
ND3	Deposited Matter	g/m²/month	Lab Analysis	Once a month (min. 4 weeks)	1	11/02/21	3/03/21	NA	NA	NA	1.2
11	Conductivity	μs/cm	In situ	Upon discharge	0		No discharge occurred	during Eabru	any 2021 (S	D4)	
11	тос	mg/L	Lab Analysis	(within 12 hours)	U	Γ	No discharge occurred	auring rebru	ury 2021 (3	D4).	
13	Conductivity	μs/cm	In situ	Upon discharge	0		No discharge occurred	during Eabru	any 2021 (S	D2)	
13	тос	mg/L	Lab Analysis	(within 12 hours)	0	Γ	vo discharge occurred	auring rebru	ury 2021 (3	DZ).	
	Conductivity	μs/cm	In situ		0						
	тос	mg/L	Lab Analysis	Quarterly,	0						
14	Oil & Grease	mg/L	Lab Analysis	Upon discharge &	0	No flow events	s and/or mine discharg	ge occurred d	uring Febru	ary 2021 (KC	1US)
	рН	рН	In situ	Flow Event	0						
	TSS	mg/L	Lab Analysis		0						
	Conductivity	μs/cm	In situ		0						
	тос	mg/L	Lab Analysis	Quarterly,	0						
15	Oil & Grease	mg/L	Lab Analysis	Upon discharge &	0	No flow event	t and/or mine discharg	e occurred di	uring Febru	ary 2021 (KC	1DS)
	рН	рН	In situ	Flow Event	0						
	TSS	mg/L	Lab Analysis		0						
	Conductivity	μs/cm	In situ	Quartarly	1	26/02/21	8/03/21	NA	NA	NA	120
16	тос	mg/L	Lab Analysis	Quarterly, Upon	1	26/02/21	8/03/21	NA	NA	NA	23



EPL	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value	
	Oil & Grease	mg/L	Lab Analysis	discharge & Flow Event	1	26/02/21	8/03/21	NA	NA	NA	<5	
	рН	рН	In situ		1	26/02/21	8/03/21	NA	NA	NA	7.2	
	TSS	mg/L	Lab Analysis		1	26/02/21	8/03/21	NA	NA	NA	17	
	Conductivity	μs/cm	In situ		0							
	тос	mg/L	Lab Analysis	Quarterly,	0							
17	Oil & Grease	mg/L	Lab Analysis	Upon discharge &	0	No flow event	s and/or mine dischar <u>c</u>	ge occurred a	luring Febru	ıary 2021 (KC	2DS)	
	рН	pН	In situ	Flow Event	0							
	TSS	mg/L	Lab Analysis		0							
	Conductivity	μs/cm	In Situ	Upon discharge	0							
18	тос	mg/L	Lab Analysis	(within 12 hours)	0		Not currently	constructed	(SD7).			
	Conductivity	μs/cm	In situ		1	26/02/21	8/03/21	NA	NA	NA	130	
	тос	mg/L	Lab Analysis	Quarterly,	1	26/02/21	8/03/21	NA	NA	NA	8	
19	Oil & Grease	mg/L	Lab Analysis	Upon discharge &	1	26/02/21	8/03/21	NA	NA	NA	<5	
	рН	рН	In situ	Flow Event	1	26/02/21	8/03/21	NA	NA	NA	7.3	
	TSS	mg/L	Lab Analysis		1						50	
	Conductivity	μs/cm	In situ		1	26/02/21	8/03/21	NA	NA	NA	170	
20	тос	mg/L	Lab Analysis	Quarterly, Upon	1	26/02/21	8/03/21	NA	NA	NA	11	
20	Oil & Grease	mg/L	Lab Analysis	Upon discharge & Flow Event	1	26/02/21	8/03/21	NA	NA	NA	<5	
	рН	рН	In situ		1	26/02/21	8/03/21	NA	NA	NA	7.7	

EPL	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value	
	TSS	mg/L	Lab Analysis		1	26/02/21	8/03/21	NA	NA	NA	115	
	Conductivity	μs/cm	In situ		0							
	тос	mg/L	Lab Analysis	Quarterly,	0							
21	Oil & Grease	mg/L	Lab Analysis	Upon discharge &	0	No flow even	nts and/or mine disch	arge occurred	l during Feb	ruary 2021 (P	Ca)	
	рН	рН	In situ	Flow Event	0							
	TSS	mg/L	Lab Analysis		0							
	Conductivity	μs/cm	In situ		1	26/02/21	8/03/21	NA	NA	NA	590	
	тос	mg/L	Lab Analysis	Quarterly,	1	26/02/21	8/03/21	NA	NA	NA	23	
22	Oil & Grease	mg/L	Lab Analysis	Upon discharge &	1	26/02/21	8/03/21	NA	NA	NA	<5	
	рН	рН	In situ	Flow Event	1	26/02/21	8/03/21	NA	NA	NA	PC1	
	TSS	mg/L	Lab Analysis		1	26/02/21	8/03/21	NA	NA	NA	148	
2.4	рН	рН	In situ	Upon	0	A1			.1	.:!: 1 (ND4)		
24	TDS	mg/L	Lab Analysis	Discharge (within 4 hrs)	0	Namoi di	scharge point – Not c	onstructed or	currently u	itilised (NR1).		
	рН	рН	In situ	Upon	0							
25	TDS	mg/L	Lab Analysis	Discharge (within 4 hrs)	0	Namoi dis	charge point – Not co	onstructed or	currently ut	tilised (NRUS).		
26	рН	рН	In situ	Upon	0							
20	TDS	mg/L	Lab Analysis	Discharge (within 4 hrs)	0	Namoi discharge point – Not constructed or currently utilised (NRDS).						
	Conductivity	μs/cm	In situ		0							
28	рН	рН	In situ	Quarterly	0	0 Not scheduled for sampling during February 2021.						
	SWL	-	In situ		0							

EPL	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
	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						
	Conductivity	μs/cm	In situ		0						
	рН	рН	In situ		0						
	SWL	mbtoc	In situ		0						
	Bicarbonate	mg/L	Lab Analysis		0						
	Calcium	mg/L	Lab Analysis		0						
29	Carbonate	mg/L	Lab Analysis	Quarterly	0		Not scheduled for san	npling during	February 20	021.	
	Chloride	mg/L	Lab Analysis		0						
	Magnesium	mg/L	Lab Analysis		0						
	Potassium	mg/L	Lab Analysis		0						

EPL	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value	
	Sodium	mg/L	Lab Analysis		0			•				
	Sulfate	mg/L	Lab Analysis		0							
	Conductivity	μs/cm	In situ		0							
	рН	pН	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							
30	Chloride	mg/L	Lab Analysis	Quarterly	0	Not scheduled for sampling during February 2021.						
	Magnesium	mg/L	Lab Analysis		0		, , ,					
	Potassium	mg/L	Lab Analysis		0							
	Sodium	mg/L	Lab Analysis		0							
	Sulfate	mg/L	Lab Analysis		0							
	Conductivity	μs/cm	In situ		0							
	рН	рН	In situ		0							
	SWL	mbtoc	In situ		0							
31	Bicarbonate	mg/L	Lab Analysis	Quarterly	0		Not scheduled for sampling during February 2021.					
	Calcium	mg/L	Lab Analysis		0	0						
	Carbonate	mg/L	Lab Analysis		0							

EPL	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
	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						
	Conductivity	μs/cm	In situ		0						
	рН	рН	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						
32	Chloride	mg/L	Lab Analysis	Quarterly	0		Not scheduled for sam	npling during	February 20	021.	
	Magnesium	mg/L	Lab Analysis		0						
	Potassium	mg/L	Lab Analysis		0						
	Sodium	mg/L	Lab Analysis		0						
	Sulfate	mg/L	Lab Analysis		0						
	Conductivity	μs/cm	In situ		0						
33	рН	рН	In situ	Quarterly	0		Not scheduled for sam	npling during	February 20	021.	
	SWL	mbtoc	In situ		0						

EPL	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
	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						
	Conductivity	μs/cm	In situ		0						
	рН	рН	In situ		0						
	SWL	mbtoc	In situ		0						
	Bicarbonate	mg/L	Lab Analysis		0						
	Calcium	mg/L	Lab Analysis		0						
34	Carbonate	mg/L	Lab Analysis	Quarterly	0		Not scheduled for sai	mpling during	February 20	021.	
	Chloride	mg/L	Lab Analysis		0						
	Magnesium	mg/L	Lab Analysis		0						
	Potassium	mg/L	Lab Analysis		0						

EPL	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value	
	Sodium	mg/L	Lab Analysis		0							
	Sulfate	mg/L	Lab Analysis		0							
	Conductivity	μs/cm	In situ		0							
ļ	рН	рН	In situ		0							
ļ	SWL	mbtoc	In situ		0							
	Bicarbonate	mg/L	Lab Analysis		0							
	Calcium	mg/L	Lab Analysis		0							
	Carbonate	mg/L	Lab Analysis		0							
35	Chloride	mg/L	Lab Analysis	Quarterly	0		Not scheduled for sam	pling during	February 20	021.		
	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)

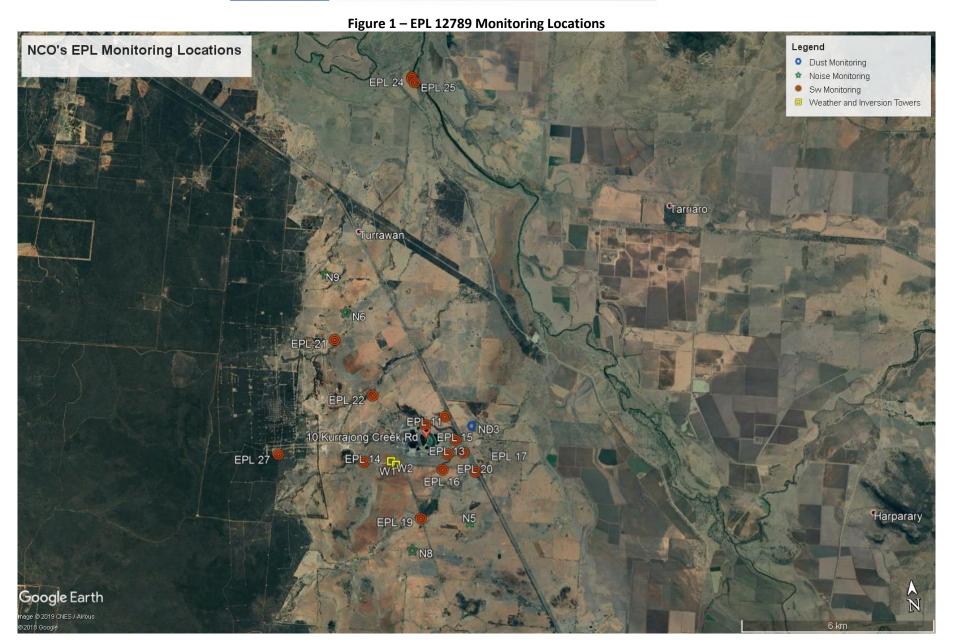
EPL ID	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Max Value	EPL Limit	Exceedance (Yes/No)	Comments (Mine Site Sample ID)
	TSS	mg/L	Lab Analysis	I I in a in	0						50	N/A	
11	Oil & Grease	mg/L	Lab Analysis	Upon discharge	0	No disc	harge occurre	d during F	ebruary 2	2021	10	N/A	SD4
	рН	рН	In situ	uischarge	0						6.5-8.5	N/A	
	TSS	mg/L	Lab Analysis		0				50	N/A			
13		mg/L	Lab Analysis	Upon	0	No discharge occurred during February 20				021	10	N/A	SD2
	рН	рН	In situ	discharge	0						6.5-8.5	N/A	
	TSS	mg/L	Lab Analysis		0						50	N/A	
18	Oil & Grease	mg/L	Lab Analysis	Upon discharge	0		Not current	ly construc	cted.		10	N/A	SD7
	рН	рН	In situ	uischarge	0						6.5-8.5	N/A	
2.4	TDS	mg/L	Lab Analysis	Upon	0	Namoi discl	harge point –	Not constr	ucted or c	urrently	350	N/A	ND4
24	рН	рН	In situ	discharge	0		ut	ilised.			6.5-8.5	N/A	NR1
	TSS	mg/L	Lab Analysis		0						50	N/A	
27	Oil & Grease	mg/L	Lab Analysis	Upon	0	No discharge occurred during February 202			021	10	N/A	SD8	
	рН	рН	In situ	discharge	0					6.5-8.5	N/A		



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

EPL ID	Date	Measure d Levels – dB(A) L <sub>eq 15min Day</sub>	Measured Levels – dB(A) Leq 15min Evening	Measured Levels – dB(A) L <sub>eq 15min Night</sub>	Measured Levels – dB(A) L <sub>A1 (1 min) Night</sub>	Limit(s) <sup>2 , 4</sup>	Measurement Periods	Weather Compliant Conditions (D/E/N)	Compliant <sup>1</sup> (Yes/No)	Date Obtained
	-					Day, Evening & Night:	Day – 1.5 hrs			
N5	-					35 <u>Night</u>	Evening – 0.5 hrs			
	-					<u>La1 (1 min):</u> 45	Night – 1 hr			
	-					<u>Day, Evening &amp;</u> <u>Night:</u>	Day – 1.5 hrs			
N6	-					35 <u>Night</u>	Evening – 0.5 hrs			
	-					<u>La1 (1 min):</u> 45	Night – 1 hr			
N8	Monitoring at N8	to commence	when surface ac	tivities approac	h the eastern en	d of the southern lon	g wall panels. Not co	urrently required.		
	-					Day, Evening & Night:	Day – 1.5 hrs			
N9	-					35 <u>Night</u>	Evening – 0.5 hrs			
	-					LA1 (1 min): 45	Night – 1 hr			

Note: Quarterly attended noise monitoring was completed during 22-24 February. The results are not available at time of reporting and will be issued in the March EPL report.





#### **Site Information**

**EPL No:** 12789

**EPA Website Link:** <a href="http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=106922&SYSUID=1&LICID=12789">http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=106922&SYSUID=1&LICID=12789</a>

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 2021Obtained Date:12 April 2021Publication Date:15 April 2021

EPL	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
ND3	Deposited Matter	g/m²/month	Lab Analysis	Once a month (min. 4 weeks)	1	11/03/21	29/03/21	NA	NA	NA	1.4
11	Conductivity	μs/cm	In situ	Upon discharge	0	No dis	charge occurred during	a March 20	21 (SDA)		
11	тос	mg/L	Lab Analysis	(within 12 hours)	Ü	ivo uis	enarge occurred during	y iviai cii 20.	21 (304).		
13	Conductivity	μs/cm	In situ	Upon discharge	0	No die	charge occurred during	a March 20	21 (CD2)		
13	тос	mg/L	Lab Analysis	(within 12 hours)	0	No als	charge occurred during	j iviurcii 20.	21 (302).		
	Conductivity	μs/cm	In situ	Quarterly,	1	24/03/21	1/04/21	NA	NA	NA	100
	тос	mg/L	Lab Analysis		1	24/03/21	1/04/21	NA	NA	NA	12
14	Oil & Grease	mg/L	Lab Analysis	Upon discharge &	1	24/03/21	1/04/21	NA	NA	NA	<5
	рН	рН	In situ	Flow Event	1	24/03/21	1/04/21	NA	NA	NA	7.5
	TSS	mg/L	Lab Analysis		1	24/03/21	1/04/21	NA	NA	NA	90
	Conductivity	μs/cm	In situ		0						
	тос	mg/L	Lab Analysis	Quarterly,	0						
15	Oil & Grease	mg/L	Lab Analysis	Upon discharge &	0	No flow and/or mine (	discharge occurred dur	ing March .	2021 flow e	vent (KC1DS	5)
	рН	рН	In situ	Flow Event	0	)					
	TSS	mg/L	Lab Analysis		0						
16	Conductivity	μs/cm	In situ		1	24/03/21	1/04/21	NA	NA	NA	85



EPL	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
	тос	mg/L	Lab Analysis		1	24/03/21	1/04/21	NA	NA	NA	16
	Oil & Grease	mg/L	Lab Analysis	Quarterly, Upon	1	24/03/21	1/04/21	NA	NA	NA	<5
	рН	рН	In situ	discharge & Flow Event	1	24/03/21	1/04/21	NA	NA	NA	7.4
	TSS	mg/L	Lab Analysis	Flow Event	1	24/03/21	1/04/21	NA	NA	NA	7
	Conductivity	μs/cm	In situ		1	24/03/21	1/04/21	NA	NA	NA	190
	тос	mg/L	Lab Analysis	Quarterly,	1	24/03/21	1/04/21	NA	NA	NA	13
17	Oil & Grease	mg/L	Lab Analysis	Upon discharge &	1	24/03/21	1/04/21	NA	NA	NA	<5
	рН	рН	In situ	Flow Event	1	24/03/21	1/04/21	NA	NA	NA	7.2
	TSS	mg/L	Lab Analysis		1	24/03/21	1/04/21	NA	NA	NA	32
	Conductivity	μs/cm	In Situ	Upon discharge	0						
18	тос	mg/L	Lab Analysis	(within 12 hours)	0		Not currently constr	ucted (SD7).	•		
	Conductivity	μs/cm	In situ		1	24/03/21	1/04/21	NA	NA	NA	235
	тос	mg/L	Lab Analysis	Quarterly,	1	24/03/21	1/04/21	NA	NA	NA	12
19	Oil & Grease	mg/L	Lab Analysis	Upon discharge &	1	24/03/21	1/04/21	NA	NA	NA	<5
	рН	рН	In situ	Flow Event	1	24/03/21	1/04/21	NA	NA	NA	7.2
	TSS	mg/L	Lab Analysis		1	24/03/21	1/04/21	NA	NA	NA	47
	Conductivity	μs/cm	In situ	Quarterly,	1	24/03/21	1/04/21	NA	NA	NA	195
20	тос	mg/L	Lab Analysis	Upon	1	24/03/21	1/04/21	NA	NA	NA	13



EPL	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value	
	Oil & Grease	mg/L	Lab Analysis	discharge & Flow Event	1	24/03/21	1/04/21	NA	NA	NA	<5	
	рН	рН	In situ		1	24/03/21	1/04/21	NA	NA	NA	7.2	
	TSS	mg/L	Lab Analysis		1	24/03/21	1/04/21	NA	NA	NA	40	
	Conductivity	μs/cm	In situ		0	24/03/21	1/04/21	NA	NA	NA	55	
	тос	mg/L	Lab Analysis	Quarterly,	0	24/03/21	1/04/21	NA	NA	NA	13	
21	Oil & Grease	mg/L	Lab Analysis	Upon discharge &	0	24/03/21	1/04/21	NA	NA	NA	<5	
	рН	рН	In situ	Flow Event	0	24/03/21	1/04/21	NA	NA	NA	6.6	
	TSS	mg/L	Lab Analysis	TIOW EVEIN	0	24/03/21	1/04/21	NA	NA	NA	142	
	Conductivity	μs/cm	In situ		1	26/03/21	1/04/21	NA	NA	NA	150	
	тос	mg/L	Lab Analysis	Quarterly,	1	26/03/21	1/04/21	NA	NA	NA	15	
22	Oil & Grease	mg/L	Lab Analysis	Upon discharge &	1	26/03/21	1/04/21	NA	NA	NA	13	
	рН	рН	In situ	Flow Event	1	26/03/21	1/04/21	NA	NA	NA	7.5	
	TSS	mg/L	Lab Analysis		1	26/03/21	1/04/21	NA	NA	NA	28	
	рН	рН	In situ	Upon Discharge	0	Namoi discharge point – Not constructed or currently utilised (NR1).						
24	TDS	mg/L	Lab Analysis	(within 4 hrs)	0							
	рН	рН	In situ	Upon Discharge	0							
25	TDS	mg/L	Lab Analysis	(within 4 hrs)	0 Namoi discharge point – Not constructed or currently utilised (NRUS).							
26	рН	рН	In situ		0	Namoi discharge point – Not constructed or currently utilised (NRDS).						

EPL	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value	
	TDS	mg/L	Lab Analysis	Upon Discharge (within 4 hrs)	0							
	Conductivity	μs/cm	In situ		0							
	рН	рН	In situ		0							
	SWL	-	In situ		0							
	Bicarbonate	mg/L	Lab Analysis		0							
	Calcium	mg/L	Lab Analysis		0							
	Carbonate	Analysis										
28	Chloride	mg/L	Lab Analysis	Quarterly	0	Bore was	s dry during scheduled	sampling N	1arch 2021.			
	Magnesium	mg/L	Lab Analysis		0							
	Potassium	mg/L	Lab Analysis		0							
	Sodium	mg/L	Lab Analysis		0							
	Sulfate	mg/L	Lab Analysis		0							
	Conductivity	μs/cm	In situ		1	26/03/21	12/04/21	NA	NA	NA	10825	
	рН	рН	In situ		1	26/03/21	12/04/21	NA	NA	NA	7.7	
	SWL	mbtoc	In situ		1	26/03/21	12/04/21	NA	NA	NA	5.6	
29	Bicarbonate	mg/L	Lab Analysis	Quarterly	1	26/03/21	12/04/21	NA	NA	NA	638	
	Calcium	mg/L	Lab Analysis		1	26/03/21	12/04/21	NA	NA	NA	56	

EPL	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
	Carbonate	mg/L	Lab Analysis		1	26/03/21	12/04/21	NA	NA	NA	<1
	Chloride	mg/L	Lab Analysis		1	26/03/21	12/04/21	NA	NA	NA	3110
	Magnesium	mg/L	Lab Analysis		1	26/03/21	12/04/21	NA	NA	NA	129
	Potassium	mg/L	Lab Analysis		1	26/03/21	12/04/21	NA	NA	NA	10
	Sodium	mg/L	Lab Analysis		1	26/03/21	12/04/21	NA	NA	NA	2150
	Sulfate	mg/L	Lab Analysis		1	26/03/21	12/04/21	NA	NA	NA	450
	Conductivity	μs/cm	In situ		1	26/03/21	12/04/21	NA	NA	NA	19603
	рН	рН	In situ		1	26/03/21	12/04/21	NA	NA	NA	7.6
	SWL	mbtoc	In situ		1	26/03/21	12/04/21	NA	NA	NA	13.8
	Bicarbonate	mg/L	Lab Analysis		1	26/03/21	12/04/21	NA	NA	NA	732
	Calcium	mg/L	Lab Analysis		1	26/03/21	12/04/21	NA	NA	NA	173
	Carbonate	mg/L	Lab Analysis		1	26/03/21	12/04/21	NA	NA	NA	<1
30	Chloride	mg/L	Lab Analysis		1	26/03/21	12/04/21	NA	NA	NA	6360
	Magnesium	mg/L	Lab Analysis		1	26/03/21	12/04/21	NA	NA	NA	432
	Potassium	mg/L	Lab Analysis		1	26/03/21	12/04/21	NA	NA	NA	17
	Sodium	mg/L	Lab Analysis		1	26/03/21	12/04/21	NA	NA	NA	3670
	Sulfate	mg/L	Lab Analysis		1	26/03/21	12/04/21	NA	NA	NA	1260

EPL	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value	
	Conductivity	μs/cm	In situ		0							
	рН	рН	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							
31	Chloride	mg/L	Lab Analysis	Quarterly	0	Insufficient water to sample during scheduled sampling March 2021.						
	Magnesium	mg/L	Lab Analysis		0							
	Potassium	mg/L	Lab Analysis		0							
	Sodium	mg/L	Lab Analysis		0							
	Sulfate	mg/L	Lab Analysis		0							
	Conductivity	μs/cm	In situ		1	26/03/21	12/04/21	NA	NA	NA	2192	
	рН	рН	In situ		1	26/03/21	12/04/21	NA	NA	NA	8.43	
	SWL	mbtoc	In situ		1	26/03/21	12/04/21	NA	NA	NA	8.38	
	Bicarbonate	mg/L	Lab Analysis	Quarterly	1	26/03/21	12/04/21	NA	NA	NA	1020	
32	Calcium	mg/L	Lab Analysis		1	26/03/21	12/04/21	NA	NA	NA	2	
	Carbonate	mg/L	Lab Analysis		1	26/03/21	12/04/21	NA	NA	NA	7	
	Chloride	mg/L	Lab Analysis		1	26/03/21	12/04/21	NA	NA	NA	291	

EPL	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value	
	Magnesium	mg/L	Lab Analysis		1	26/03/21	12/04/21	NA	NA	NA	15	
	Potassium	mg/L	Lab Analysis		1	26/03/21	12/04/21	NA	NA	NA	2	
	Sodium	mg/L	Lab Analysis		1	26/03/21	12/04/21	NA	NA	NA	713	
	Sulfate	mg/L	Lab Analysis		1	26/03/21	12/04/21	NA	NA	NA	214	
	Conductivity	μs/cm	In situ		0							
	рН	рН	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							
33	Chloride	mg/L	Lab Analysis	Quarterly	0	Bore wa	s dry during schedulea	l sampling N	larch 2021.			
	Magnesium	mg/L	Lab Analysis		0							
	Potassium	mg/L	Lab Analysis		0	0						
	Sodium	mg/L	Lab Analysis		0							
	Sulfate	mg/L	Lab Analysis		0							
	Conductivity	μs/cm	In situ		0							
34	рН	рН	In situ	Quarterly	0	Bore was dry during scheduled sampling March 2021.						
	SWL	mbtoc	In situ		0							

EPL	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
	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						
	Conductivity	μs/cm	In situ		1	26/03/21	12/04/21	NA	NA	NA	10556
	рН	рН	In situ		1	26/03/21	12/04/21	NA	NA	NA	7.1
	SWL	mbtoc	In situ		1	26/03/21	12/04/21	NA	NA	NA	18.8
	Bicarbonate	mg/L	Lab Analysis	Quarterly	1	26/03/21	12/04/21	NA	NA	NA	5530
	Calcium	mg/L	Lab Analysis		1	26/03/21	12/04/21	NA	NA	NA	73
35	Carbonate	mg/L	Lab Analysis		1	26/03/21	12/04/21	NA	NA	NA	<1
	Chloride	mg/L	Lab Analysis		1	26/03/21	12/04/21	NA	NA	NA	1010
	Magnesium	mg/L	Lab Analysis		1	26/03/21	12/04/21	NA	NA	NA	85
	Potassium	mg/L	Lab Analysis		1	26/03/21	12/04/21	NA	NA	NA	64



EPL	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
	Sodium	mg/L	Lab Analysis		1	26/03/21	12/04/21	NA	NA	NA	2790
	Sulfate	mg/L	Lab Analysis		1	26/03/21	12/04/21	NA	NA	NA	75



# 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)
	TSS	mg/L	Lab Analysis		0						50	N/A	
11	Oil & Grease	mg/L	Lab Analysis	Upon discharge	0	No dis	scharge occuri	red during	March 20	21	10	N/A	SD4
	рН	рН	In situ	uischarge	0							N/A	1
	TSS	mg/L	Lab Analysis		0						50	N/A	
13	Oil & Grease	mg/L	Lab Analysis	Upon discharge	0	No discharge occurred during March 2021				21	10	N/A	SD2
	рН	рН	In situ	uischarge	0						6.5-8.5	N/A	
	TSS	mg/L	Lab Analysis	Upon	0						50	N/A	
18	Oil & Grease	mg/L	Lab Analysis		0		Not currently constructed.				10	N/A	SD7
	рН	рН	In situ	discharge	0						6.5-8.5	N/A	
2.4	TDS	mg/L	Lab Analysis	Upon	0 Namoi discharge point – Not constructed or currently					350	N/A	ND4	
24	рН	рН	In situ	discharge	0	utilised.					6.5-8.5	N/A	NR1
	TSS	mg/L	Lab Analysis		0					-	50	N/A	_
27	Oil & Grease	mg/L	Lab Analysis	Upon	0	No dis	scharge occur	red during	March 20	21	10	N/A	SD8
	рН	рН	In situ	discharge	0	-				6.5-8.5	N/A		

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

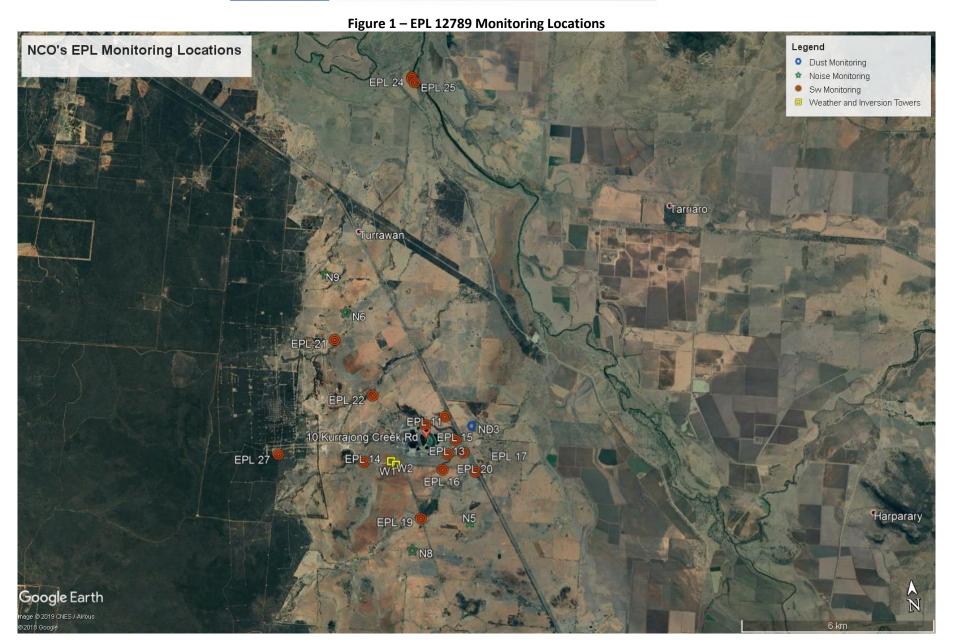
EPL ID	Date	Measure d Levels – dB(A) <sup>2</sup> L <sub>eq 15min Day</sub>	Measured Levels – dB(A) <sup>2</sup> L <sub>eq 15min</sub> Evening	$\begin{tabular}{ll} Measured \\ Levels - \\ dB(A)^2 \\ L_{eq~15min~Night} \end{tabular}$	Measured Levels – dB(A) <sup>2</sup> L <sub>A1 (1 min) Night</sub>	Limit(s)	Measurement Periods	Weather Compliant Conditions (D/E/N)	Compliant (Yes/No)	Date Obtained
	22/02/2021	I/A	I/A	I/A	I/A	Day, Evening & Night:	Day – 1.5 hrs	Y/Y/N	Yes	11/03/21
N5 <sup>1</sup>	23/02/2021	I/A	I/A	N/M	N/M	35 Night	Evening – 0.5 hrs	Y/N/N	Yes	11/03/21
	24/02/2021	N/M	I/A	I/A	I/A	<u>L<sub>A1 (1 min)</sub>:</u> <b>4</b> 5	Night – 1 hr	N/N/N	Yes	11/03/21
	22/02/2021	N/M	32	29	30	Day, Evening & Night:	Day – 1.5 hrs	N/N/N	Yes	11/03/21
N6	23/02/2021	<28	N/M	I/A	I/A	35 <u>Night</u>	Evening – 0.5 hrs	Y/N/N	Yes	11/03/21
	24/02/2021	I/A	I/A	I/A	I/A	<u>L<sub>A1 (1 min):</sub></u> 45	Night – 1 hr	Y/N/N	Yes	11/03/21
N8		Monitoring at	N8 to commence	e when surface (	activities approa	ch the eastern end o	f the southern long v	vall panels. Not cu	rrently required.	
	22/02/2021	N/M	N/M	27	30	Day, Evening & Night:	Day – 1.5 hrs	Y/N/N	Yes	11/03/21
N9 <sup>1</sup>	23/02/2021	<25	I/A	I/A	I/A	35 <u>Night</u>	Evening – 0.5 hrs	Y/N/N	Yes	11/03/21
	24/02/2021	N/M	I/A	I/A	I/A	L <sub>A1 (1 min)</sub> : 45	Night – 1 hr	N/N/N	Yes	11/03/21

Note: Quarterly attended noise monitoring was completed during 22-24 February.

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

Note1: 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.





#### **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 2021Obtained Date:6 May 2021Publication Date:7 May 2021

Table 1 – No Poliutant Limits Apply														
EPL	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value			
ND3	Deposited Matter	g/m²/month	Lab Analysis	Once a month (min. 4 weeks)	1	12/04/21	6/05/21	NA	NA	NA	0.8			
11	Conductivity	μs/cm	In situ	Upon discharge	0	No discharge occurred during April 2021 (SD4).								
11	тос	mg/L	Lab Analysis	(within 12 hours)	0									
13	Conductivity	μs/cm	In situ	Upon discharge	0		No disabasa o	accurred duri	na Anril 2021	1 (CD2)				
15	тос	mg/L	Lab Analysis	(within 12 hours)	0	No discharge occurred during April 2021 (SD2).								
	Conductivity	μs/cm	In situ		0									
	тос	mg/L	Lab Analysis	Quarterly, Upon discharge &	0									
14	Oil & Grease	mg/L	Lab Analysis		0	No flow events and/or mine discharge occurred during April 2021 (KC1U								
	рН	pН	In situ	Flow Event	0									
	TSS	mg/L	Lab Analysis		0									
	Conductivity	μs/cm	In situ		0									
	тос	mg/L	Lab Analysis	Quarterly,	0									
15	Oil & Grease	mg/L	Lab Analysis	Upon 0 discharge &	No flow event and/or mine discharge occurred during April 2021 (KC1DS,									
	рН	рН	In situ	Flow Event	0									
	TSS	mg/L	Lab Analysis		0									
	Conductivity	μs/cm	In situ	Quartorly	0									
16	тос	mg/L	Lab Analysis	Quarterly, Upon	0	No flow events and/or mine discharge occurred during April 2021 (KC2US)								

EPL	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value		
	Oil & Grease	mg/L	Lab Analysis	discharge & Flow Event	0								
	рН	рН	In situ		0								
	TSS	mg/L	Lab Analysis		0								
	Conductivity	μs/cm	In situ		0								
	тос	mg/L	Lab Analysis	Quarterly,	0								
17	Oil & Grease	mg/L	Lab Analysis	Upon discharge &	0	No flow ev	ents and/or mine	e discharge o	ccurred durin	g April 2021 (I	KC2DS)		
	рН	рН	In situ	Flow Event	0								
	TSS	mg/L	Lab Analysis		0								
40	Conductivity	μs/cm	In Situ	Upon discharge	0	Not currently constructed (SD7).							
18	тос	mg/L	Lab Analysis	(within 12 hours)	0		Not cu	rrently const	ructea (SD7).				
	Conductivity	μs/cm	In situ		0								
	тос	mg/L	Lab Analysis	Quarterly,	0								
19	Oil & Grease	mg/L	Lab Analysis	Upon discharge &	0	No flow e	vents and/or min	e discharge d	ccurred durii	ng April 2021 (	KCUS)		
	рН	рН	In situ	Flow Event	0								
	TSS	mg/L	Lab Analysis		0								
	Conductivity	μs/cm	In situ		0								
20	тос	mg/L	Lab Analysis	Quarterly, Upon	0	No flow o	vants and for min	a discharas	scurred durin	na Anril 2021 l	(VCDS)		
20	Oil & Grease	mg/L	Lab Analysis	discharge & Flow Event	0	ivo jiow e	vents and/or min	e aiscnarge d	ccurrea aurii	ny Aprii 2021 (	KCDS)		
	рН	рН	In situ		0								

EPL	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value		
	TSS	mg/L	Lab Analysis		0								
	Conductivity	μs/cm	In situ		0								
	тос	mg/L	Lab Analysis	Quarterly,	0								
21	Oil & Grease	mg/L	Lab Analysis	Upon discharge &	0	No flow e	vents and/or min	e discharge	occurred duri	ing April 2021	(PCa)		
	рН	рН	In situ	Flow Event	0								
	TSS	mg/L	Lab Analysis		0								
	Conductivity	μs/cm	In situ		0								
	тос	mg/L	Lab Analysis	Quarterly,	0								
22	Oil & Grease	mg/L	Lab Analysis	Upon discharge &	0	No flow e	vents and/or min	e discharge	occurred duri	ing April 2021	(PC1)		
	рН	рН	In situ	Flow Event	0								
	TSS	mg/L	Lab Analysis		0								
	рН	рН	In situ	Upon	0								
24	TDS	mg/L	Lab Analysis	Discharge (within 4 hrs)	0	Namoi c	lischarge point –	Not construc	ted or curre	ntly utilised (N	R1).		
	рН	рН	In situ	Upon	0								
25	TDS	mg/L	Lab Analysis	Discharge (within 4 hrs)	0	Namoi discharge point – Not constructed or currently utilised (NRUS).							
26	рН	рН	In situ	Upon	0								
20	TDS	mg/L	Lab Analysis	Discharge (within 4 hrs)	0	Namoi di	ischarge point – N	Not construc	ed or curren	tly utilised (Ni	RDS).		
	Conductivity	μs/cm	In situ		0					•			
28	рН	рН	In situ	Quarterly	0		Not scheduled	for samplin	g during Apri	I 2021.			
	SWL	-	In situ		0								

EPL	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
	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						
	Conductivity	μs/cm	In situ		0						
	рН	рН	In situ		0						
	SWL	mbtoc	In situ		0						
	Bicarbonate	mg/L	Lab Analysis		0						
	Calcium	mg/L	Lab Analysis		0						
29	Carbonate	mg/L	Lab Analysis	Quarterly	0		Not scheduled	for sampling	g during Apri	il 2021.	
	Chloride	mg/L	Lab Analysis		0						
	Magnesium	mg/L	Lab Analysis		0						
	Potassium	mg/L	Lab Analysis		0						

EPL	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
	Sodium	mg/L	Lab Analysis		0						
	Sulfate	mg/L	Lab Analysis		0						
	Conductivity	μs/cm	In situ		0						
	рН	рН	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						
30	Chloride	mg/L	Lab Analysis	Quarterly	0		Not scheduled	d for samplin	g during Apri	l 2021.	
	Magnesium	mg/L	Lab Analysis		0						
	Potassium	mg/L	Lab Analysis		0						
	Sodium	mg/L	Lab Analysis		0						
	Sulfate	mg/L	Lab Analysis		0						
	Conductivity	μs/cm	In situ		0						
	рН	рН	In situ		0						
	SWL	mbtoc	In situ		0						
31	Bicarbonate	mg/L	Lab Analysis	Quarterly	0		Not scheduled	d for samplin	g during Apri	l 2021.	
	Calcium	mg/L	Lab Analysis		0						
	Carbonate	mg/L	Lab Analysis		0						

EPL	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
	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						
	Conductivity	μs/cm	In situ		0						
	рН	рН	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						
32	Chloride	mg/L	Lab Analysis	Quarterly	0		Not scheduled	l for sampling	g during Apri	l 2021.	
	Magnesium	mg/L	Lab Analysis		0						
	Potassium	mg/L	Lab Analysis		0						
	Sodium	mg/L	Lab Analysis		0						
	Sulfate	mg/L	Lab Analysis		0						
	Conductivity	μs/cm	In situ		0						
33	рН	рН	In situ	Quarterly	0		Not scheduled	for sampling	g during Apri	I 2021.	
	SWL	mbtoc	In situ		0						

EPL	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
	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						
	Conductivity	μs/cm	In situ		0						
	рН	рН	In situ		0						
	SWL	mbtoc	In situ		0						
	Bicarbonate	mg/L	Lab Analysis		0						
	Calcium	mg/L	Lab Analysis		0						
34	Carbonate	mg/L	Lab Analysis	Quarterly	0		Not scheduled	l for sampling	g during Apri	il 2021.	
	Chloride	mg/L	Lab Analysis		0						
	Magnesium	mg/L	Lab Analysis		0						
	Potassium	mg/L	Lab Analysis		0						



EPL	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value	
	Sodium	mg/L	Lab Analysis		0							
	Sulfate	mg/L	Lab Analysis		0							
	Conductivity	μs/cm	In situ		0							
	рН	рН	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							
35	Chloride	mg/L	Lab Analysis	Quarterly	0		Not scheduled	for sampling	g during Apri	l 2021.		
	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	0	No d	licabarao o cou	rrad during	~ Anril 202	1	50	N/A	SD4
11	Oil & Grease	mg/L	Lab Analysis	discharge	0	No discharge occurred during April 202				1	10	N/A	3D4



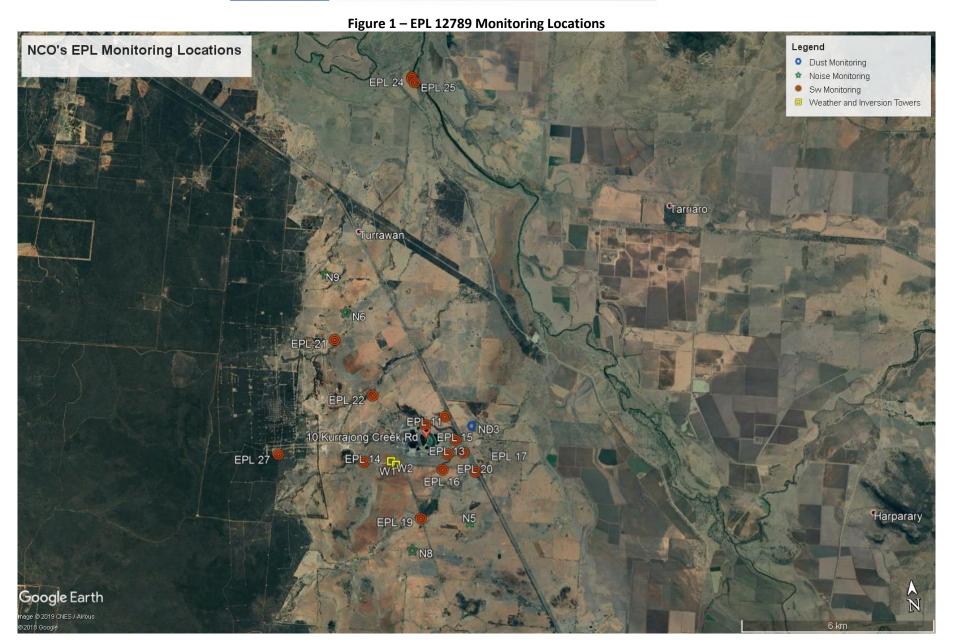
	рН	рН	In situ		0		6.5-8.5	N/A	
	TSS	mg/L	Lab Analysis		0		50	N/A	
13	Oil & Grease	mg/L	Lab Analysis	Upon discharge	0	No discharge occurred during April 2021	10	N/A	SD2
	рН	рН	In situ	uischarge	0		6.5-8.5	N/A	
	TSS	mg/L	Lab Analysis	l les sus	0		50	N/A	
18	Oil & Grease	mg/L	Lab Analysis	Upon discharge	0	Not currently constructed.	10	N/A	SD7
	рН	рН	In situ	uischarge	0		6.5-8.5	N/A	
2.4	TDS	mg/L	Lab Analysis	Upon	0	Namoi discharge point – Not constructed or currently	350	N/A	ND1
24	рН	рН	In situ	discharge	0	utilised.	6.5-8.5	N/A	NR1
	TSS	mg/L	Lab Analysis	l les sus	0		50	N/A	
27	Oil & Grease	mg/L	Lab Analysis	•	0	No discharge occurred during April 2021	10	N/A	SD8
	рН	рН	In situ	Upon — discharge —	0		6.5-8.5	N/A	1



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

EPL	Date	Measure	Measured	Measured	Measured	Limit(s) <sup>2,4</sup>	Measurement	Weather	Compliant <sup>1</sup>	Date
ID		d Levels –	Levels –	Levels –	Levels –		Periods	Compliant	(Yes/No)	Obtained
		dB(A)	dB(A)	dB(A)	dB(A)			Conditions		
		Leq 15min Day	L <sub>eq 15min</sub>	Leq 15min Night	L <sub>A1 (1 min) Night</sub>			(D/E/N)		
			Evening							
	_					Day, Evening &	Day – 1.5 hrs			
						<u>Night:</u>				
N5						35	Evening – 0.5			
IND	-					<u>Night</u>	hrs			
						<u>La1 (1 min):</u>				
	-					45	Night – 1 hr			
						Day, Evening &	Day – 1.5 hrs			
	1					<u>Night:</u>				
N6	_					35	Evening – 0.5			
INO						<u>Night</u>	hrs			
	_					<u>La1 (1 min):</u>				
						45	Night – 1 hr			
N8	Monitoring at N8	3 to commence	when surface ac	tivities approac	h the eastern en	d of the southern lor	ng wall panels. Not c	urrently required.		
						Day, Evening &	Day – 1.5 hrs			
	-					Night:	.,			
						35	Evening – 0.5			
N9						<u>Night</u>	hrs			
						L <sub>A1 (1 min)</sub> :				
	-					45	Night – 1 hr			

**Note**: Quarterly attended noise monitoring will be undertaken prior to the end of June 2021. There are no results available at the time of reporting.





### 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 2021Obtained Date:08 June 2021Publication Date:17 June 2021

Table 1 - No Pollutant Limits Apply

	ı			1		int Limits Apply	1			1			
EPL	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value		
ND3	Deposited Matter	g/m²/month	Lab Analysis	Once a month (min. 4 weeks)	1	12/05/21	8/06/21	NA	NA	NA	2.2		
11	Conductivity	μs/cm	In situ	Upon discharge	0		No disabawasa		n = 14m : 2021	1 (504)			
11	тос	mg/L	Lab Analysis	(within 12 hours)	0		No discharge o	occurrea auri	ng Iviay 2021	I (SD4).			
12	Conductivity	μs/cm	In situ	Upon discharge	0		No disabarsa a	anurrad duri	aa May 2021	(CD2)			
13	тос	mg/L	Lab Analysis	(within 12 hours)	0		No discharge o	ccurrea aurii	ng iviay 2021	. (SD2).			
	Conductivity	μs/cm	In situ		0								
	тос	mg/L	Lab Analysis	Quarterly,	0								
14	Oil & Grease	mg/L	Lab Analysis	Upon discharge &	0	No flow ev	ents and/or mine	discharge od	ccurred durin	g May 2021 (k	(C1US)		
	рН	рН	In situ	Flow Event	0								
	TSS	mg/L	Lab Analysis		0								
	Conductivity	μs/cm	In situ		0								
	тос	mg/L	Lab Analysis	Quarterly,	0								
15	Oil & Grease	mg/L	Lab Analysis	Upon discharge &	0	No flow event and/or mine discharge occurred during May 2021 (KC1DS)  O  O							
	рН	рН	In situ	Flow Event	0								
	TSS	mg/L	Lab Analysis		0								
	Conductivity	μs/cm	In situ	Quarterly	0								
16	тос	mg/L	Lab Analysis	Quarterly, Upon	0	No flow events and/or mine discharge occurred during May 2021 (KC2US)							

EPL	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value		
	Oil & Grease	mg/L	Lab Analysis	discharge & Flow Event	0								
Ī	рН	рН	In situ		0								
-	TSS	mg/L	Lab Analysis		0								
	Conductivity	μs/cm	In situ		0								
	тос	mg/L	Lab Analysis	Quarterly,	0								
17	Oil & Grease	mg/L	Lab Analysis	Upon discharge &	0	No flow ev	ents and/or mine	discharge o	ccurred durin	g May 2021 (k	(C2DS)		
	рН	рН	In situ	Flow Event	0								
-	TSS	mg/L	Lab Analysis		0								
40	Conductivity	μs/cm	In Situ	Upon discharge	0	Not currently constructed (SD7).							
18	тос	mg/L	Lab Analysis	(within 12 hours)	0		NOT CUI	rrentiy const	ructea (SD7).				
	Conductivity	μs/cm	In situ		0								
	тос	mg/L	Lab Analysis	Quarterly,	0								
19	Oil & Grease	mg/L	Lab Analysis	Upon discharge &	0	No flow ev	vents and/or mine	e discharge c	occurred durii	ng May 2021 (	KCUS)		
	рН	рН	In situ	Flow Event	0								
	TSS	mg/L	Lab Analysis		0								
	Conductivity	μs/cm	In situ		0								
20	тос	mg/L	Lab Analysis	Quarterly, Upon	0	No flow o	unts and/or mins	o discharac	courred devi	na May 2021 /	VCDC)		
20	Oil & Grease	mg/L	Lab Analysis	discharge & Flow Event	0	ivo jiow ev	vents and/or mine	: uiscriarge 0	ccurrea aurir	iy iviuy 2021 (	NCD3)		
	рН	рН	In situ		0								

EPL	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value	
	TSS	mg/L	Lab Analysis		0							
	Conductivity	μs/cm	In situ		0							
	тос	mg/L	Lab Analysis	Quarterly,	0							
21	Oil & Grease	mg/L	Lab Analysis	Upon discharge &	0	No flow e	events and/or min	ne discharge	occurred dur	ing May 2021 (	(PCa)	
	рН	рН	In situ	Flow Event	0							
	TSS	mg/L	Lab Analysis		0							
	Conductivity	μs/cm	In situ		0							
	тос	mg/L	Lab Analysis	Quarterly,	0							
22	Oil & Grease	mg/L	Lab Analysis	Upon discharge &	0	No flow e	events and/or min	ne discharge	occurred dur	ing May 2021 (	(PC1)	
	рН	рН	In situ	Flow Event	0							
	TSS	mg/L	Lab Analysis		0							
	рН	рН	In situ	Upon	0						54)	
24	TDS	mg/L	Lab Analysis	Discharge (within 4 hrs)	0	Namoi d	lischarge point –	Not constru	ted or curre	ntly utilised (N	R1).	
	рН	рН	In situ	Upon	0							
25	TDS	mg/L	Lab Analysis	Discharge (within 4 hrs)	0	Namoi di	ischarge point – N	Not construc	ted or curren	tly utilised (NR	RUS).	
26	рН	рН	In situ	Upon	0							
20	TDS	mg/L	Lab Analysis	Discharge (within 4 hrs)	0	Namoi di	ischarge point – N	Not construc	ted or curren	tly utilised (NR	RDS).	
	Conductivity	μs/cm	In situ		0							
28	рН	рН	In situ	Quarterly	0	0 Not scheduled for sampling during May 2021 .						
	SWL	1	In situ		0							

EPL	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
	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						
	Conductivity	μs/cm	In situ		0						
	рН	рН	In situ		0						
	SWL	mbtoc	In situ		0						
	Bicarbonate	mg/L	Lab Analysis		0						
	Calcium	mg/L	Lab Analysis		0						
29	Carbonate	mg/L	Lab Analysis	Quarterly	0		Not scheduled	for sampling	g during May	2021 .	
	Chloride	mg/L	Lab Analysis		0						
	Magnesium	mg/L	Lab Analysis		0						
	Potassium	mg/L	Lab Analysis		0						

EPL	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
	Sodium	mg/L	Lab Analysis		0						
	Sulfate	mg/L	Lab Analysis		0						
	Conductivity	μs/cm	In situ		0						
	рН	рН	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						
30	Chloride	mg/L	Lab Analysis	Quarterly	0		Not scheduled	d for samplin	g during May	/ 2021.	
	Magnesium	mg/L	Lab Analysis		0						
	Potassium	mg/L	Lab Analysis		0						
	Sodium	mg/L	Lab Analysis		0						
	Sulfate	mg/L	Lab Analysis		0						
	Conductivity	μs/cm	In situ		0						
	рН	рН	In situ		0						
	SWL	mbtoc	In situ		0						
31	Bicarbonate	mg/L	Lab Analysis	Quarterly	0		Not scheduled	d for samplin	g during May	y 2021.	
	Calcium	mg/L	Lab Analysis		0						
	Carbonate	mg/L	Lab Analysis		0						

EPL	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
	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						
	Conductivity	μs/cm	In situ		0						
	рН	рН	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						
32	Chloride	mg/L	Lab Analysis	Quarterly	0		Not schedulea	for sampling	g during May	2021 .	
	Magnesium	mg/L	Lab Analysis		0						
	Potassium	mg/L	Lab Analysis		0						
	Sodium	mg/L	Lab Analysis		0						
	Sulfate	mg/L	Lab Analysis		0						
	Conductivity	μs/cm	In situ		0						
33	рН	рН	In situ	Quarterly	0		Not scheduled	for samplin	g during May	2021.	
	SWL	mbtoc	In situ		0						

EPL	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
	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						
	Conductivity	μs/cm	In situ		0						
	рН	рН	In situ		0						
	SWL	mbtoc	In situ		0						
	Bicarbonate	mg/L	Lab Analysis		0						
	Calcium	mg/L	Lab Analysis		0						
34	Carbonate	mg/L	Lab Analysis	Quarterly	0		Not scheduled	l for samplin	g during Ma <sub>y</sub>	y 2021.	
	Chloride	mg/L	Lab Analysis		0						
	Magnesium	mg/L	Lab Analysis		0						
	Potassium	mg/L	Lab Analysis		0						



EPL	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
	Sodium	mg/L	Lab Analysis		0						
	Sulfate	mg/L	Lab Analysis		0						
	Conductivity	μs/cm	In situ		0						
	рН	рН	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						
35	Chloride	mg/L	Lab Analysis	Quarterly	0		Not scheduled	for sampling	g during May	/ 2021.	
	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	0	No discharge accounted during Many 2024			) 1	50	N/A	SD4	
11	Oil & Grease	mg/L	Lab Analysis	discharge	0	No discharge occurred during May 2021			: <b>1</b>	10	N/A	304	



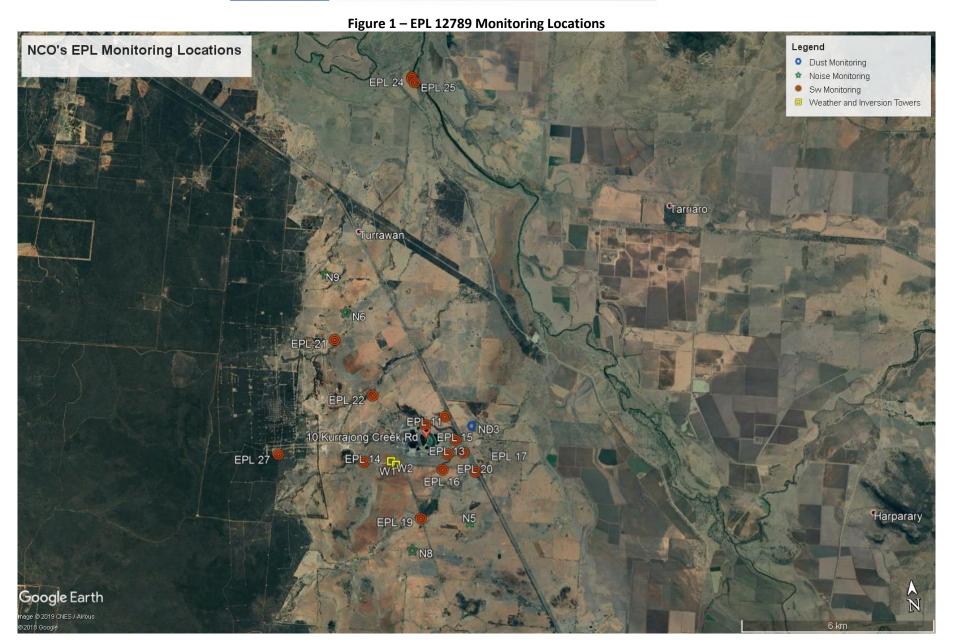
	рН	рН	In situ		0		6.5-8.5	N/A	
	TSS	mg/L	Lab Analysis	11	0		50	N/A	
13	Oil & Grease	mg/L	Lab Analysis	Upon discharge	0	No discharge occurred during May 2021	10	N/A	SD2
	рН	рН	In situ	uischarge	0		6.5-8.5	N/A	
	TSS	mg/L	Lab Analysis		0		50	N/A	
18	Oil & Grease	mg/L	Lab Analysis	Upon discharge	0	Not currently constructed.	10	N/A	SD7
	рН	рН	In situ	uischarge	0		6.5-8.5	N/A	
2.4	TDS	mg/L	Lab Analysis	Upon	0	Namoi discharge point – Not constructed or currently	350	N/A	ND4
24	рН	рН	In situ	discharge	0	utilised.	6.5-8.5	N/A	NR1
	TSS	mg/L	Lab Analysis	0		50	N/A		
27	Oil & Grease	mg/L	Lab Analysis	Upon	0	No discharge occurred during May 2021	10	N/A	SD8
	рН	рН	In situ	- discharge -	0		6.5-8.5	N/A	1



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

EPL	Date	Measure	Measured	Measured	Measured	Limit(s) <sup>2,4</sup>	Measurement	Weather	Compliant <sup>1</sup>	Date
ID		d Levels –	Levels –	Levels –	Levels –		Periods	Compliant	(Yes/No)	Obtained
		dB(A)	dB(A)	dB(A)	dB(A)			Conditions		
		L <sub>eq 15min Day</sub>	L <sub>eq 15min</sub>	L <sub>eq 15min Night</sub>	L <sub>A1 (1 min) Night</sub>			(D/E/N)		
			Evening							
	_					Day, Evening &	Day – 1.5 hrs			
						<u>Night:</u>				
N5	_					35	Evening – 0.5			
143						<u>Night</u>	hrs			
						<u>LA1 (1 min):</u>				
	,					45	Night – 1 hr			
	_					Day, Evening &	Day – 1.5 hrs			
						<u>Night:</u>				
N6	-					35	Evening – 0.5			
						<u>Night</u>	hrs			
	-					<u>LA1 (1 min):</u>				
						45	Night – 1 hr			
N8	Monitoring at N8	3 to commence	when surface ac	tivities approac	h the eastern en	d of the southern lon	ng wall panels. Not c	urrently required.		
						Day, Evening &	Day – 1.5 hrs			
	-					Night:				
NO						35	Evening – 0.5			
N9	_					<u>Night</u>	hrs			
	_					<u>L<sub>A1 (1 min)</sub>:</u>				
	, <u>-</u>					45	Night – 1 hr			

**Note**: Quarterly attended noise monitoring will be undertaken prior to the end of June 2021. There are no results available at the time of reporting.





### NARRABRI MINE – MONTHLY MONITORING SUMMARY

#### **Site Information**

**EPL No:** 12789

**EPA Website Link:** <a href="http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=106922&SYSUID=1&LICID=12789">http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=106922&SYSUID=1&LICID=12789</a>

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 2021Obtained Date:23 July 2021Publication Date:26 July 2021

Table 1 – No Pollutant Limits Apply

	No. of No. of											
EPL	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value	
ND 3	Deposited Matter	g/m²/month	Lab Analysis	Once a month (min. 4 weeks)	1	17/06/2021	12/07/2021	NA	NA	NA	0.8	
11	Conductivity	μs/cm	In situ	Upon discharge	0		No discharge occuri	rad during lun	o 2021 (SD	<b>1</b> )		
11	тос	mg/L	Lab Analysis	(within 12 hours)	U		No discharge occur	rea during Juni	e 2021 (3D2	+).		
13	Conductivity	μs/cm	In situ	Upon discharge	0		No discharge occuri	red during lun	o 2021 (SD:	2)		
13	тос	mg/L	Lab Analysis	(within 12 hours)	0		No discharge occur	ea during sam	e 2021 (3D2	<u></u> /·		
	Conductivity	μs/cm	In situ		1	11/06/2021	23/06/2021	NA	NA	NA	125	
	тос	mg/L	Lab Analysis	Quarterly,	1	11/06/2021	23/06/2021	NA	NA	NA	9	
14	Oil & Grease	mg/L	Lab Analysis	Upon discharge &	1	11/06/2021	23/06/2021	NA	NA	NA	<5	
	рН	рН	In situ	Flow Event	1	11/06/2021	23/06/2021	NA	NA	NA	7.7	
	TSS	mg/L	Lab Analysis		1	11/06/2021	23/06/2021	NA	NA	NA	123	
	Conductivity	μs/cm	In situ		0							
	тос	mg/L	Lab Analysis	Quarterly,	0							
15	Oil & Grease	mg/L	Lab Analysis	Upon		0	No flow and	l/or mine discharge occu	ırred during M	arch 2021 j	flow event (KC	1DS)
	рН	рН	In situ	Flow Event	0							
	TSS	mg/L	Lab Analysis		0							
	Conductivity	μs/cm	In situ	Quarterly,	1	11/06/2021	23/06/2021	NA	NA	NA	85	
16	тос	mg/L	Lab Analysis	Upon	1	11/06/2021	23/06/2021	NA	NA	NA	9	



EPL	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
	Oil & Grease	mg/L	Lab Analysis	discharge & Flow Event	1	11/06/2021	23/06/2021	NA	NA	NA	<5
	рН	рН	In situ		1	11/06/2021	23/06/2021	NA	NA	NA	7.6
	TSS	mg/L	Lab Analysis		1	11/06/2021	23/06/2021	NA	NA	NA	58
	Conductivity	μs/cm	In situ		1	11/06/2021	23/06/2021	NA	NA	NA	95
	тос	mg/L	Lab Analysis	Quarterly,	1	11/06/2021	23/06/2021	NA	NA	NA	8
17	Oil & Grease	mg/L	Lab Analysis	Upon discharge &	1	11/06/2021	23/06/2021	NA	NA	NA	<5
	рН	рН	In situ	Flow Event	1	11/06/2021	23/06/2021	NA	NA	NA	7.3
	TSS	mg/L	Lab Analysis		1	11/06/2021	23/06/2021	NA	NA	NA	403
10	Conductivity	μs/cm	In Situ	Upon discharge	0		Not assumed	h	(CDZ)		
18	тос	mg/L	Lab Analysis	(within 12 hours)	0		Not current	ly constructed	(SD7).		
	Conductivity	μs/cm	In situ		1	11/06/2021	23/06/2021	NA	NA	NA	150
	тос	mg/L	Lab Analysis	Quarterly,	1	11/06/2021	23/06/2021	NA	NA	NA	7
19	Oil & Grease	mg/L	Lab Analysis	Upon discharge &	1	11/06/2021	23/06/2021	NA	NA	NA	<5
	рН	рН	In situ	Flow Event	1	11/06/2021	23/06/2021	NA	NA	NA	7.5
	TSS	mg/L	Lab Analysis		1	11/06/2021	23/06/2021	NA	NA	NA	78
	Conductivity	μs/cm	In situ		1	11/06/2021	23/06/2021	NA	NA	NA	115
20	тос	mg/L	Lab Analysis	Quarterly, Upon	1	11/06/2021	23/06/2021	NA	NA	NA	8
20	Oil & Grease	mg/L	Lab Analysis	discharge & Flow Event	1	11/06/2021	23/06/2021	NA	NA	NA	<5
	рН	рН	In situ		1	11/06/2021	23/06/2021	NA	NA	NA	7.5

EPL	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
	TSS	mg/L	Lab Analysis		1	11/06/2021	23/06/2021	NA	NA	NA	83
	Conductivity	μs/cm	In situ		1	11/06/2021	23/06/2021	NA	NA	NA	176
	тос	mg/L	Lab Analysis	Quarterly,	1	11/06/2021	23/06/2021	NA	NA	NA	10
21	Oil & Grease	mg/L	Lab Analysis	Upon discharge &	1	11/06/2021	23/06/2021	NA	NA	NA	<5
	рН	рН	In situ	Flow Event	1	11/06/2021	23/06/2021	NA	NA	NA	7.76
	TSS	mg/L	Lab Analysis		1	11/06/2021	23/06/2021	NA	NA	NA	39
	Conductivity	μs/cm	In situ		1	11/06/2021	23/06/2021	NA	NA	NA	235
	тос	mg/L	Lab Analysis	Quarterly,	1	11/06/2021	23/06/2021	NA	NA	NA	8
22	Oil & Grease	mg/L	Lab Analysis	Upon discharge &	1	11/06/2021	23/06/2021	NA	NA	NA	<5
	рН	рН	In situ	Flow Event	1	11/06/2021	23/06/2021	NA	NA	NA	7.4
	TSS	mg/L	Lab Analysis		1	11/06/2021	23/06/2021	NA	NA	NA	77
	рН	рН	In situ	Upon	0						
24	TDS	mg/L	Lab Analysis	Discharge (within 4 hrs)	0	Namoi	discharge point – Not o	onstructed or	currently u	tilised (NR1).	
	рН	рН	In situ	Upon	0						
25	TDS	mg/L	Lab Analysis	Discharge (within 4 hrs)	0	Namoi	discharge point – Not co	onstructed or o	currently ut	ilised (NRUS).	
26	рН	рН	In situ	Upon	0						
26	TDS	mg/L	Lab Analysis	Discharge (within 4 hrs)	0	Namoi	discharge point – Not co	onstructed or o	currently ut	ilised (NRDS).	
	Conductivity	μs/cm	In situ		0						
28	рН	рН	In situ	Quarterly	0		Bore was dry during s	scheduled sampling June 2021.			
	SWL	-	In situ		0						

EPL	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
	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						
	Conductivity	μs/cm	In situ		1	20/06/2021	30/06/2021	NA	NA	NA	11200
	рН	pН	In situ		1	20/06/2021	30/06/2021	NA	NA	NA	7.67
	SWL	mbtoc	In situ		1	20/06/2021	30/06/2021	NA	NA	NA	5.43
	Bicarbonate	mg/L	Lab Analysis		1	20/06/2021	30/06/2021	NA	NA	NA	780
	Calcium	mg/L	Lab Analysis		1	20/06/2021	30/06/2021	NA	NA	NA	58
29	Carbonate	mg/L	Lab Analysis	Quarterly	1	20/06/2021	30/06/2021	NA	NA	NA	<1
	Chloride	mg/L	Lab Analysis		1	20/06/2021	30/06/2021	NA	NA	NA	3510
	Magnesium	mg/L	Lab Analysis		1	20/06/2021	30/06/2021	NA	NA	NA	144
	Potassium	mg/L	Lab Analysis		1	20/06/2021	30/06/2021	NA	NA	NA	8

EPL	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
	Sodium	mg/L	Lab Analysis		1	20/06/2021	30/06/2021	NA	NA	NA	2380
	Sulfate	mg/L	Lab Analysis		1	20/06/2021	30/06/2021	NA	NA	NA	514
	Conductivity	μs/cm	In situ		1	20/06/2021	30/06/2021	NA	NA	NA	18900
	рН	рН	In situ		1	20/06/2021	30/06/2021	NA	NA	NA	7.59
	SWL	mbtoc	In situ		1	20/06/2021	30/06/2021	NA	NA	NA	13.7
	Bicarbonate	mg/L	Lab Analysis		1	20/06/2021	30/06/2021	NA	NA	NA	833
	Calcium	mg/L	Lab Analysis		1	20/06/2021	30/06/2021	NA	NA	NA	170
	Carbonate	mg/L	Lab Analysis	Quarterly	1	20/06/2021	30/06/2021	NA	NA	NA	<1
30	Chloride	mg/L	Lab Analysis		1	20/06/2021	30/06/2021	NA	NA	NA	6380
	Magnesium	mg/L	Lab Analysis		1	20/06/2021	30/06/2021	NA	NA	NA	444
	Potassium	mg/L	Lab Analysis		1	20/06/2021	30/06/2021	NA	NA	NA	16
	Sodium	mg/L	Lab Analysis		1	20/06/2021	30/06/2021	NA	NA	NA	3780
	Sulfate	mg/L	Lab Analysis		1	20/06/2021	30/06/2021	NA	NA	NA	1300
	Conductivity	μs/cm	In situ		1	20/06/2021	30/06/2021	NA	NA	NA	7330
	рН	рН	In situ		1	20/06/2021	30/06/2021	NA	NA	NA	7.36
	SWL	mbtoc	In situ		1	20/06/2021	30/06/2021	NA	NA	NA	17.04
31	Bicarbonate	mg/L	Lab Analysis	Quarterly	1	20/06/2021	30/06/2021	NA	NA	NA	930
	Calcium	mg/L	Lab Analysis		1	20/06/2021	30/06/2021	NA	NA	NA	122



EPL	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
	Carbonate	mg/L	Lab Analysis		1	20/06/2021	30/06/2021	NA	NA	NA	<1
	Chloride	mg/L	Lab Analysis		1	20/06/2021	30/06/2021	NA	NA	NA	1790
	Magnesium	mg/L	Lab Analysis		1	20/06/2021	30/06/2021	NA	NA	NA	210
	Potassium	mg/L	Lab Analysis		1	20/06/2021	30/06/2021	NA	NA	NA	14
	Sodium	mg/L	Lab Analysis		1	20/06/2021	30/06/2021	NA	NA	NA	1260
	Sulfate	mg/L	Lab Analysis		1	20/06/2021	30/06/2021	NA	NA	NA	329
	Conductivity	μs/cm	In situ		1	20/06/2021	30/06/2021	NA	NA	NA	2040
	рН	рН	In situ		1	20/06/2021	30/06/2021	NA	NA	NA	8.53
	SWL	mbtoc	In situ		1	20/06/2021	30/06/2021	NA	NA	NA	7.67
	Bicarbonate	mg/L	Lab Analysis		1	20/06/2021	30/06/2021	NA	NA	NA	929
	Calcium	mg/L	Lab Analysis		1	20/06/2021	30/06/2021	NA	NA	NA	<1
	Carbonate	mg/L	Lab Analysis		1	20/06/2021	30/06/2021	NA	NA	NA	102
32	Chloride	mg/L	Lab Analysis	Quarterly	1	20/06/2021	30/06/2021	NA	NA	NA	50
	Magnesium	mg/L	Lab Analysis		1	20/06/2021	30/06/2021	NA	NA	NA	4
	Potassium	mg/L	Lab Analysis		1	20/06/2021	30/06/2021	NA	NA	NA	<1
	Sodium	mg/L	Lab Analysis		1	20/06/2021	30/06/2021	NA	NA	NA	523
	Sulfate	mg/L	Lab Analysis		1	20/06/2021	30/06/2021	NA	NA	NA	83

EPL	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value						
	Conductivity	μs/cm	In situ		0												
	рН	рН	In situ		0												
	SWL	mbtoc	In situ		0												
	Bicarbonate	mg/L	Lab Analysis	Quarterly	0												
	Calcium	mg/L	Lab Analysis		0												
	Carbonate	mg/L	Lab Analysis		0												
33	Chloride	mg/L	Lab Analysis		0		Bore was dry during scheduled sampling June 2021.										
	Magnesium	mg/L	Lab Analysis		0												
	Potassium	mg/L	Lab Analysis		0												
	Sodium	mg/L	Lab Analysis		0												
	Sulfate	mg/L	Lab Analysis		0												
	Conductivity	μs/cm	In situ		0												
	рН	рН	In situ		0												
	SWL	mbtoc	In situ		0												
	Bicarbonate	mg/L	Lab Analysis		0												
34	Calcium	mg/L	Lab Analysis	Quarterly	0		Bore was dry during so	cheduled samp	oling June 2	021.							
	Carbonate	mg/L	Lab Analysis		0												
	Chloride	mg/L	Lab Analysis		0												

EPL	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
	Magnesium	mg/L	Lab Analysis		0				•		
	Potassium	mg/L	Lab Analysis		0						
	Sodium	mg/L	Lab Analysis		0						
	Sulfate	mg/L	Lab Analysis		0						
	Conductivity	μs/cm	In situ		1	20/06/2021	30/06/2021	NA	NA	NA	10800
	рН	рН	In situ		1	20/06/2021	30/06/2021	NA	NA	NA	7.37
	SWL	mbtoc	In situ		1	20/06/2021	30/06/2021	NA	NA	NA	18.72
	Bicarbonate	mg/L	Lab Analysis		1	20/06/2021	30/06/2021	NA	NA	NA	5600
	Calcium	mg/L	Lab Analysis		1	20/06/2021	30/06/2021	NA	NA	NA	68
	Carbonate	mg/L	Lab Analysis		1	20/06/2021	30/06/2021	NA	NA	NA	<1
35	Chloride	mg/L	Lab Analysis	Quarterly	1	20/06/2021	30/06/2021	NA	NA	NA	999
	Magnesium	mg/L	Lab Analysis		1	20/06/2021	30/06/2021	NA	NA	NA	99
	Potassium	mg/L	Lab Analysis		1	20/06/2021	30/06/2021	NA	NA	NA	64
	Sodium	mg/L	Lab Analysis		1	20/06/2021	30/06/2021	NA	NA	NA	3090
	Sulfate	mg/L	Lab Analysis		1	20/06/2021	30/06/2021	NA	NA	NA	78



## 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)
	TSS	mg/L	Lab Analysis	11	0		No discharge occurred during June 2021				50	N/A	
11	Oil & Grease	mg/L	Lab Analysis	Upon discharge	0	No d					10	N/A	SD4
	рН	рН	In situ	uischarge	0							N/A	
	TSS	mg/L	Lab Analysis	11	0							N/A	
13	Oil & Grease	mg/L	Lab Analysis	Upon discharge	0	No discharge occurred during June 2021				1	10	N/A	SD2
	рН	рН	In situ	uischarge	0						6.5-8.5	N/A	
	TSS	mg/L	Lab Analysis		0	Not currently constructed.					50	N/A	SD7
18	Oil & Grease	mg/L	Lab Analysis	Upon discharge	0						10	N/A	
	рН	рН	In situ	uischarge	0						6.5-8.5	N/A	
2.4	TDS	mg/L	Lab Analysis	Upon	0	Namoi discl	harge point –	Not constr	ucted or c	urrently	350	N/A	NID4
24	рН	рН	In situ	discharge	0		ut	ilised.			6.5-8.5	N/A	NR1
	TSS	mg/L	Lab Analysis		0						50	N/A	SD8
27	Oil & Grease	mg/L	Lab Analysis	Upon	0	No d	lischarge occu	rred during	g June 202	1	10	N/A	
	рН	рН	In situ	discharge	0						6.5-8.5	N/A	

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

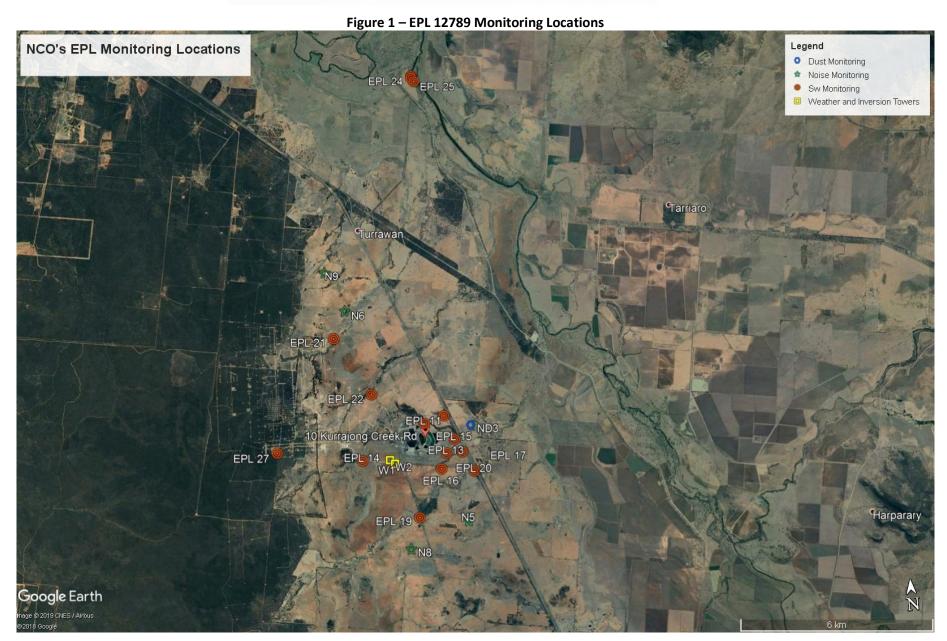
EPL ID	Date	Measure d Levels – dB(A) <sup>2</sup> Leq 15min Day	Measured Levels – dB(A) <sup>2</sup> L <sub>eq 15min</sub> Evening	Measured Levels – dB(A) <sup>2</sup> Leq 15min Night	Measured Levels – dB(A) <sup>2</sup> LA1 (1 min) Night	Limit(s)	Measurement Periods	Weather Compliant Conditions (D/E/N)	Compliant (Yes/No)	Date Obtained
	21/06/2021	I/A	I/A	I/A	I/A	Day, Evening & Night:	Day – 1.5 hrs	N/N/N	Yes	23/07/2021
N5 <sup>1</sup>	22/06/2021	I/A	26	22	24	35 <u>Night</u>	Evening – 0.5 hrs	N/N/N	Yes	23/07/2021
	23/06/2021	N/M	<25	35	42	<u>L<sub>A1 (1 min)</sub>:</u> <b>4</b> 5	Night – 1 hr	Y/Y/N	Yes	23/07/2021
	21/06/2021	I/A	28	29	30	Day, Evening & Night:	Day – 1.5 hrs	N/Y/Y	Yes	23/07/2021
N6	22/06/2021	I/A	I/A	22	24	35 <u>Night</u>	Evening – 0.5 hrs	N/Y/Y	Yes	23/07/2021
	23/06/2021	I/A	I/A	I/A	I/A	<u>La1 (1 min):</u> 45	Night – 1 hr	N/Y/Y	Yes	23/07/2021
N8		Monitoring at	N8 to commence	e when surface	activities approa	ch the eastern end o	f the southern long v	vall panels. Not cu	rrently required.	
	21/06/2021	I/A	27	I/A	I/A	Day, Evening & Night:	Day – 1.5 hrs	N/N/N	Yes	23/07/2021
N9 <sup>1</sup>	22/06/2021	I/A	I/A	I/A	I/A	35 <u>Night</u>	Evening – 0.5 hrs	N/Y/Y	Yes	23/07/2021
	23/06/2021	I/A	I/A	I/A	I/A	<u>La1 (1 min):</u> 45	Night – 1 hr	Y/Y/Y	Yes	23/07/2021

Note: Quarterly attended noise monitoring was completed during 21-23 June 2021

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

Note1: 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.





### NARRABRI MINE – MONTHLY MONITORING SUMMARY

#### **Site Information**

**EPL No:** 12789

**EPA Website Link:** <a href="http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=106922&SYSUID=1&LICID=12789">http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=106922&SYSUID=1&LICID=12789</a>

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 2021 Obtained Date: 29 July 2021

**Publication Date:** 3 September 2021

Table 1 – No Pollutant Limits Apply

	Table 1 - No Pollutant Limits Apply													
EPL	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value			
ND 3	Deposited Matter	g/m²/month	Lab Analysis	Once a month (min. 4 weeks)	1	13/07/2021	29/07/2021	NA	NA	NA	2.2			
11	Conductivity	μs/cm	In situ	Upon discharge	0		No discharge occur	rad during July	, 2021 (SDA	1				
11	тос	mg/L	Lab Analysis	(within 12 hours)	U	No discharge occurred during July 2021 (SD4).								
13	Conductivity	μs/cm	In situ	Upon discharge	0		No discharge occur	red during July	u 2021 (SD2	))				
13	тос	mg/L	Lab Analysis	(within 12 hours)	0	No discharge occurred during July 2021 (SD2).								
	Conductivity	μs/cm	In situ		1	9/07/2021	26/07/2021	NA	NA	NA	54			
	тос	mg/L	Lab Analysis	Quarterly, Upon discharge &	1	9/07/2021	26/07/2021	NA	NA	NA	17			
14	Oil & Grease	mg/L	Lab Analysis		1	9/07/2021	26/07/2021	NA	NA	NA	<5			
	рН	рН	In situ	Flow Event	1	9/07/2021	26/07/2021	NA	NA	NA	7.16			
	TSS	mg/L	Lab Analysis		1	9/07/2021	26/07/2021	NA	NA	NA	1030			
	Conductivity	μs/cm	In situ		1	9/07/2021	26/07/2021	NA	NA	NA	74			
	тос	mg/L	Lab Analysis	Quarterly,	1	9/07/2021	26/07/2021	NA	NA	NA	21			
15	Oil & Grease	mg/L	Lab Analysis	Upon discharge &	1	9/07/2021	26/07/2021	NA	NA	NA	<b>&lt;</b> 5			
	рН	рН	In situ	Flow Event	1	9/07/2021	26/07/2021	NA	NA	NA	7.4			
	TSS	mg/L	Lab Analysis		1	9/07/2021	26/07/2021	NA	NA	NA	251			
	Conductivity	μs/cm	In situ	Oversternly.	1	9/07/2021	26/07/2021	NA	NA	NA	35			
16	тос	mg/L	Lab Analysis	Quarterly, Upon	1	9/07/2021	26/07/2021	NA	NA	NA	18			



EPL	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
	Oil & Grease	mg/L	Lab Analysis	discharge & Flow Event	1	9/07/2021	26/07/2021	NA	NA	NA	<5
	рН	рН	In situ		1	9/07/2021	26/07/2021	NA	NA	NA	7.11
	TSS	mg/L	Lab Analysis		1	9/07/2021	26/07/2021	NA	NA	NA	50
	Conductivity	μs/cm	In situ		1	9/07/2021	26/07/2021	NA	NA	NA	52
	тос	mg/L	Lab Analysis	Quarterly,	1	9/07/2021	26/07/2021	NA	NA	NA	18
17	Oil & Grease	mg/L	Lab Analysis	Upon discharge &	1	9/07/2021	26/07/2021	NA	NA	NA	<5
	рН	рН	In situ	Flow Event	1	9/07/2021	26/07/2021	NA	NA	NA	7.12
	TSS	mg/L	Lab Analysis		1	9/07/2021	26/07/2021	NA	NA	NA	42
10	Conductivity	μs/cm	In Situ	Upon discharge	0				/ (CD 7)		
18	тос	mg/L	Lab Analysis	(within 12 hours)	0		Not currenti	y constructed	d (SD7)		
	Conductivity	μs/cm	In situ		1	9/07/2021	26/07/2021	NA	NA	NA	35
	тос	mg/L	Lab Analysis	Quarterly,	1	9/07/2021	26/07/2021	NA	NA	NA	17
19	Oil & Grease	mg/L	Lab Analysis	Upon discharge &	1	9/07/2021	26/07/2021	NA	NA	NA	<5
	рН	рН	In situ	Flow Event	1	9/07/2021	26/07/2021	NA	NA	NA	7.24
	TSS	mg/L	Lab Analysis		1	9/07/2021	26/07/2021	NA	NA	NA	620
	Conductivity	μs/cm	In situ		1	9/07/2021	26/07/2021	NA	NA	NA	9.90
20	тос	mg/L	Lab Analysis	Quarterly, Upon	1	9/07/2021	26/07/2021	NA	NA	NA	18
20	Oil & Grease	mg/L	Lab Analysis	discharge & Flow Event	1	9/07/2021	26/07/2021	NA	NA	NA	<5
	рН	рН	In situ		1	9/07/2021	26/07/2021	NA	NA	NA	7.43

EPL	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
	TSS	mg/L	Lab Analysis		1	9/07/2021	26/07/2021	NA	NA	NA	512
	Conductivity	μs/cm	In situ		1	9/07/2021	26/07/2021	NA	NA	NA	171
	тос	mg/L	Lab Analysis	Quarterly,	1	9/07/2021	26/07/2021	NA	NA	NA	16
21	Oil & Grease	mg/L	Lab Analysis	Upon discharge &	1	9/07/2021	26/07/2021	NA	NA	NA	<5
	рН	рН	In situ	Flow Event	1	9/07/2021	26/07/2021	NA	NA	NA	7.16
	TSS	mg/L	Lab Analysis		1	9/07/2021	26/07/2021	NA	NA	NA	109
	Conductivity	μs/cm	In situ		1	9/07/2021	26/07/2021	NA	NA	NA	64
	тос	mg/L	Lab Analysis	Quarterly,	1	9/07/2021	26/07/2021	NA	NA	NA	16
22	Oil & Grease	mg/L	Lab Analysis	Upon discharge &	1	9/07/2021	26/07/2021	NA	NA	NA	<5
	рН	рН	In situ	Flow Event	1	9/07/2021	26/07/2021	NA	NA	NA	7.41
	TSS	mg/L	Lab Analysis		1	9/07/2021	26/07/2021	NA	NA	NA	29
24	рН	рН	In situ	Upon	0				.1	.::: 1 (NID4)	
24	TDS	mg/L	Lab Analysis	Discharge (within 4 hrs)	0	Namoi	discharge point – Not o	constructed or	currently u	tilised (NR1).	
	рН	рН	In situ	Upon	0						
25	TDS	mg/L	Lab Analysis	Discharge (within 4 hrs)	0	Namoi	discharge point – Not co	onstructed or o	currently ut	ilised (NRUS).	
26	рН	рН	In situ	Upon	0						
20	TDS	mg/L	Lab Analysis	Discharge (within 4 hrs)	0	Namoi	discharge point – Not co	onstructed or (	currently ut	ilised (NRDS).	
	Conductivity	μs/cm	In situ		0						
28	рН	рН	In situ	Quarterly	0		Not scheduled	for sampling J	uly 2021.		
	SWL	-	In situ		0						

EPL	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
	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	Sium mg/L Analysis	Lab Analysis		0						
	Sodium	mg/L	mg/L Lab Analysis		0						
	Sulfate	mg/L	Lab Analysis		0						
	Conductivity	μs/cm	In situ		0						
	pН	рН	In situ		0						
	SWL	mbtoc	In situ		0						
	Bicarbonate	mg/L	Lab Analysis		0						
	Calcium	mg/L	Lab Analysis		0						
29	Carbonate	mg/L	Lab Analysis	Quarterly	0		Not scheduled f	for sampling Ju	uly 2021.		
	Chloride	oride mg/L Lab Analysis			0						
	Magnesium	mg/L	Lab Analysis		0						
	Potassium	mg/L	Lab Analysis		0						

EPL	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value	
	Sodium	mg/L	Lab Analysis		0							
	Sulfate	mg/L	Lab Analysis		0							
	Conductivity	μs/cm	In situ		0							
	рН	рН	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			d for compline July 2021				
30	Chloride	mg/L	Lab Analysis	Quarterly	0		Not scheduled f	d for sampling July 2021.				
	Magnesium	mg/L	Lab Analysis		0							
	Potassium	mg/L	Lab Analysis		0							
	Sodium	mg/L	Lab Analysis		0							
	Sulfate	mg/L	Lab Analysis		0							
	Conductivity	μs/cm	In situ	_	0							
	рН	рН	In situ		0							
	SWL	mbtoc	In situ		0							
31	Bicarbonate	mg/L	Lab Analysis	Quarterly	0	Not scheduled for sampling July 2021.						
	Calcium	mg/L	Lab Analysis		0							

EPL	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
	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						
	Conductivity	μs/cm	In situ		0						
	рН	рН	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						
32	Chloride	mg/L	Lab Analysis	Quarterly	0		Not scheduled f	or sampling Ju	uly 2021.		
	Magnesium	mg/L	Lab Analysis		0						
	Potassium	mg/L	Lab Analysis		0						
	Sodium	mg/L	Lab Analysis		0						
	Sulfate	mg/L	Lab Analysis		0						

EPL	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
	Conductivity	μs/cm	In situ		0						
	рН	рН	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						
33	Chloride	mg/L	Lab Analysis	Quarterly	0		Not scheduled for sampling July 2021.				
	Magnesium	mg/L	Lab Analysis		0	0					
	Potassium	mg/L	Lab Analysis		0						
	Sodium	mg/L	Lab Analysis		0						
	Sulfate	mg/L	Lab Analysis		0						
	Conductivity	μs/cm	In situ		0						
	рН	рН	In situ		0						
	SWL	mbtoc	In situ		0						
	Bicarbonate	mg/L	Lab Analysis		0						
34	Calcium	mg/L	Lab Analysis	Quarterly	Not scheduled for sampling July 2021.						
	Carbonate	mg/L	Lab Analysis		0	0					
	Chloride	mg/L	Lab Analysis		0						

EPL	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
	Magnesium	mg/L	Lab Analysis		0						
	Potassium	mg/L	Lab Analysis		0						
	Sodium	mg/L	Lab Analysis		0						
	Sulfate	mg/L	Lab Analysis		0						
	Conductivity	μs/cm	In situ		0						
	рН	рН	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						
35	Chloride	mg/L	Lab Analysis	Quarterly	0		Not scheduled f	for sampling Jเ	ıly 2021.		
	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)

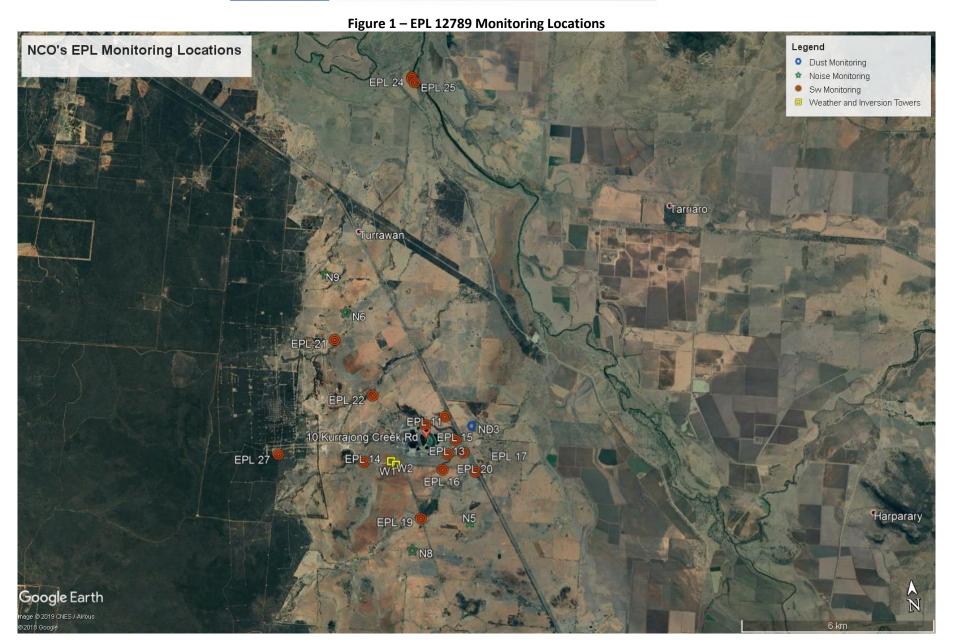
EPL ID	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Max Value	EPL Limit	Exceedance (Yes/No)	Comments (Mine Site Sample ID)
	TSS	mg/L	Lab Analysis	I I in a in	0						50	N/A	
11	Oil & Grease	mg/L	Lab Analysis	Upon discharge	0	No d	discharge occu	rred durin	g July 202	1	10	N/A	SD4
	рН	рН	In situ	uischarge	0						6.5-8.5	N/A	
	TSS	mg/L	Lab Analysis		0						50	N/A	
13	Oil & Grease	mg/L	Lab Analysis	Upon	0	0         No discharge occurred during July 2021         10         N/A           0         6.5-8.5         N/A           0         50         N/A					SD2		
	рН	рН	In situ	discharge	0								
	TSS	mg/L	Lab Analysis		0						50	N/A	
18	Oil & Grease	mg/L	Lab Analysis	Upon discharge	0		Not current	ly construc	cted.		10	N/A	SD7
	рН	рН	In situ	uischarge	0						6.5-8.5	N/A	
2.4	TDS	mg/L	Lab Analysis	Upon	0	Namoi discl	harge point –	Not constr	ucted or c	urrently	350	N/A	ND4
24	рН	рН	In situ	discharge	0		ut	ilised.			6.5-8.5	N/A	NR1
	TSS	mg/L	Lab Analysis		0	50 N/A					50	N/A	
27	Oil & Grease	mg/L	Lab Analysis	Upon	0						SD8		
	рН	рН	In situ	discharge	0						6.5-8.5	N/A	



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

EPL ID	Date	Measure d Levels –	Measured Levels –	Measured Levels –	Measured Levels –	Limit(s)	Measurement Periods	Weather Compliant	Compliant (Yes/No)	Date Obtained
		dB(A) <sup>2</sup>	dB(A) <sup>2</sup>	dB(A) <sup>2</sup>	dB(A) <sup>2</sup>			Conditions		
		L <sub>eq 15min Day</sub>	L <sub>eq 15min</sub>	Leq 15min Night	L <sub>A1 (1 min) Night</sub>			(D/E/N)		
			Evening							
	-					Day, Evening &	Day – 1.5 hrs			
-						<u>Night:</u>				
N5 <sup>1</sup>	-					35	Evening – 0.5			
113						<u>Night</u>	hrs			
	-					<u>LA1 (1 min):</u>				
						45	Night – 1 hr			
	-					Day, Evening &	Day – 1.5 hrs			
						<u>Night:</u>				
N6	-					35	Evening – 0.5			
''						<u>Night</u>	hrs			
	-					<u>LA1 (1 min):</u>				
						45	Night – 1 hr			
N8		Monitoring a	t N8 to commend	ce when surface	activities appro	ach the eastern end (	of the southern long	wall panels. Not c	urrently required.	
	-					Day, Evening &	Day – 1.5 hrs			
						<u>Night:</u>				
N9 <sup>1</sup>	-					35	Evening – 0.5			
ווא						<u>Night</u>	hrs			
	-					<u>La1 (1 min):</u>				
						45	Night – 1 hr			

Note: Quarterly attended noise monitoring is required prior to the end of September. There are no results available at the time of reporting.





## 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 2021Obtained Date:27 August 2021Publication Date:3 September 2021

Table 1 - No Pollutant Limits Apply

					100.01	o Poliutant Linnts	, .bb.)				
EPL	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
ND 3	Deposited Matter	g/m²/month	Lab Analysis	Once a month (min. 4 weeks)	1	12/08/2021	27/08/2021	NA	NA	NA	2.5
11	Conductivity	μs/cm	In situ	Upon discharge	0		No discharge occurre	ad during Augu	ust 2021 /CE	24)	
11	тос	mg/L	Lab Analysis	(within 12 hours)	U		No discharge occurre	a during Augu	IST 2021 (SL	14).	
13	Conductivity	μs/cm	In situ	Upon discharge	0		No discharge occurre	ed durina Augu	ıst 2021 (ST	12)	
13	тос	mg/L	Lab Analysis	(within 12 hours)	0		No discharge occurre	d during Augu	13t 2021 (3L	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
	Conductivity	μs/cm	In situ		0						
	тос	mg/L	Lab Analysis	Quarterly,	0						
14	Oil & Grease	mg/L	Lab Analysis	Upon discharge &	0	No flow ev	vents and/or mine discho	arge occurred	during Augu	ıst 2021 (KC1)	JS)
	рН	рН	In situ	Flow Event	0						
	TSS	mg/L	Lab Analysis		0						
	Conductivity	μs/cm	In situ		0						
	тос	mg/L	Lab Analysis	Quarterly,	0						
15	Oil & Grease	mg/L	Lab Analysis	Upon discharge &	0	No flow e	vents and/or mine discho	arge occurred	during Augı	ıst 2021 (KC11	OS)
	рН	рН	In situ	Flow Event	0						
	TSS	mg/L	Lab Analysis		0						
	Conductivity	μs/cm	In situ	Ou out out.	0						
16	тос	mg/L	Lab Analysis	Quarterly, Upon	0	No flow ev	vents and/or mine discho	arge occurred	during Augı	ıst 2021 (KC2l	JS)

EPL	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value			
	Oil & Grease	mg/L	Lab Analysis	discharge & Flow Event	0									
	рН	рН	In situ		0									
	TSS	mg/L	Lab Analysis		0									
	Conductivity	μs/cm	In situ		0									
	тос	mg/L	Lab Analysis	Quarterly,	0									
17	Oil & Grease	mg/L	Lab Analysis	Upon discharge &	0	No flow ev	vents and/or mine discha	rge occurred o	during Aug	ust 2021 (KC21	OS)			
	рН	рН	In situ	Flow Event	0									
	TSS	mg/L	Lab Analysis		0									
	Conductivity	μs/cm	In Situ	Upon discharge	0	Not augmently constructed (CDZ)								
18	тос	mg/L	Lab Analysis	(within 12 hours)	0		Not currently constructed (SD7)							
	Conductivity	μs/cm	In situ		0									
	тос	mg/L	Lab Analysis	Quarterly,	0									
19	Oil & Grease	mg/L	Lab Analysis	Upon discharge &	0	No flow e	vents and/or mine disch	arge occurred	during Aug	ust 2021 (KCL	IS)			
	рН	рН	In situ	Flow Event	0									
	TSS	mg/L	Lab Analysis		0									
	Conductivity	μs/cm	In situ		0									
20	тос	mg/L	Lab Analysis	Quarterly, Upon	0	No flaves	wants and/or mina disch	arao occursod	during Assa	wet 2021 /VCF	nC)			
20	Oil & Grease	mg/L	Lab Analysis	discharge & Flow Event	0	No flow events and/or mine discharge occurred during August 2021 (KCDS)								
	рН	рН	In situ		0	0								

EPL	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value		
	TSS	mg/L	Lab Analysis		0								
	Conductivity	μs/cm	In situ		0								
	тос	mg/L	Lab Analysis	Quarterly,	0								
21	Oil & Grease	mg/L	Lab Analysis	Upon discharge &	0	No flow 6	events and/or mine disch	narge occurred	d during Au	gust 2021 (PC	a)		
	рН	рН	In situ	Flow Event	0								
	TSS	mg/L	Lab Analysis		0								
	Conductivity	μs/cm	In situ		0								
	тос	mg/L	Lab Analysis	Quarterly,	0								
22	Oil & Grease	mg/L	Lab Analysis	Upon discharge &	0	No flow 6	events and/or mine disch	narge occurred	d during Au	gust 2021 (PC.	1)		
	рН	рН	In situ	Flow Event	0								
	TSS	mg/L	Lab Analysis		0								
	рН	рН	In situ	Upon	0					(2124)			
24	TDS	mg/L	Lab Analysis	Discharge (within 4 hrs)	0	Namo	i discharge point – Not c	onstructed or	currently u	tilised (NR1).			
	рН	рН	In situ	Upon	0								
25	TDS	mg/L	Lab Analysis	Discharge (within 4 hrs)	0	Namoi	discharge point – Not co	onstructed or o	currently ut	ilised (NRUS).			
26	рН	рН	In situ	Upon	0								
26	TDS	mg/L	Lab Analysis	Discharge (within 4 hrs)	0	Namoi	discharge point – Not co	onstructed or o	currently ut	ilised (NRDS).			
	Conductivity	μs/cm	In situ		0								
28	рН	рН	In situ	Quarterly	0	0 Not scheduled for sampling August 2021.							
	SWL	-	In situ		0	0							

EPL	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
	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						
	Conductivity	μs/cm	In situ		0						
	рН	рН	In situ		0						
	SWL	mbtoc	In situ		0						
	Bicarbonate	mg/L	Lab Analysis		0						
	Calcium	mg/L	Lab Analysis		0						
29	Carbonate	mg/L	Lab Analysis	Quarterly	0		Not scheduled for	r sampling Au	gust 2021.		
	Chloride	mg/L	Lab Analysis		0						
	Magnesium	mg/L	Lab Analysis		0						
	Potassium	mg/L	Lab Analysis		0						

EPL	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value			
	Sodium	mg/L	Lab Analysis		0									
	Sulfate	mg/L	Lab Analysis		0									
	Conductivity	μs/cm	In situ		0									
	рН	рН	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	Quarterly	0									
30	Chloride	mg/L	Lab Analysis		0	Not scheduled for sampling August 2021.								
	Magnesium	mg/L	Lab Analysis		0									
	Potassium	mg/L	Lab Analysis		0									
	Sodium	mg/L	Lab Analysis		0									
	Sulfate	mg/L	Lab Analysis		0									
	Conductivity	μs/cm	In situ		0			•			•			
	рН	рН	In situ		0									
	SWL	mbtoc	In situ		0	)								
31	Bicarbonate	mg/L	Lab Analysis	Quarterly	0	0 Not scheduled for sampling August 2021 0								
	Calcium	mg/L	Lab Analysis		0									

EPL	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
	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						
	Conductivity	μs/cm	In situ		0						
	рН	рН	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						
32	Chloride	mg/L	Lab Analysis	Quarterly	0		Not scheduled fo	r sampling Au	gust 2021.		
	Magnesium	mg/L	Lab Analysis		0						
	Potassium	mg/L	Lab Analysis		0						
	Sodium	mg/L	Lab Analysis		0						
	Sulfate	mg/L	Lab Analysis		0						

EPL	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value					
	Conductivity	μs/cm	In situ		0											
	рН	рН	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											
33	Chloride	mg/L	Lab Analysis	Quarterly	0	Not scheduled for sampling August 2021.										
	Magnesium	mg/L	Lab Analysis		0											
	Potassium	mg/L	Lab Analysis		0											
	Sodium	mg/L	Lab Analysis		0											
	Sulfate	mg/L	Lab Analysis		0											
	Conductivity	μs/cm	In situ		0											
	рН	рН	In situ		0											
	SWL	mbtoc	In situ		0											
	Bicarbonate	mg/L	Lab Analysis		0											
34	Calcium	mg/L	Lab Analysis	Quarterly	0	Not scheduled for sampling August 2021.										
	Carbonate	mg/L	Lab Analysis		0	0										
	Chloride	mg/L	Lab Analysis		0											

EPL	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
	Magnesium	mg/L	Lab Analysis		0						
	Potassium	mg/L	Lab Analysis		0						
	Sodium	mg/L	Lab Analysis		0						
	Sulfate	mg/L	Lab Analysis		0						
	Conductivity	μs/cm	In situ		0						
	рН	рН	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						
35	Chloride	mg/L	Lab Analysis	Quarterly	0		Not scheduled fo	r sampling Au	gust 2021.		
	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)

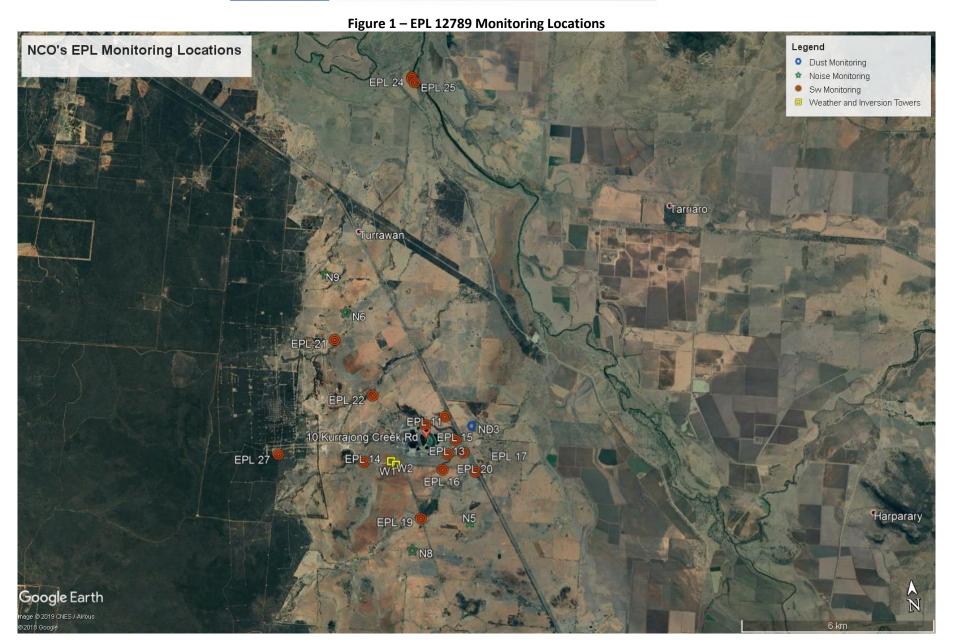
EPL ID	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Max Value	EPL Limit	Exceedance (Yes/No)	Comments (Mine Site Sample ID)
	TSS	mg/L	Lab Analysis	11	0						50	N/A	
11	Oil & Grease	mg/L	Lab Analysis	Upon discharge	0	No dis	scharge occurr	red during	August 20	21	10	N/A	SD4
	рН	рН	In situ	uischarge	0						6.5-8.5	N/A	
	TSS	mg/L	Lab Analysis		0						50	N/A	
13	Oil & Grease	mg/L	Lab Analysis	Upon	0	No discharge occurred during August 2021				21	10	N/A	SD2
	рН	рН	In situ	discharge	0						6.5-8.5	N/A	
	TSS	mg/L	Lab Analysis		0						50	N/A	
18	Oil & Grease	mg/L	Lab Analysis	Upon discharge	0		Not current	ly construc	cted.		10	N/A	SD7
	рН	рН	In situ	uischarge	0						6.5-8.5	N/A	
2.4	TDS	mg/L	Lab Analysis	Upon	0	Namoi discl	narge point –	Not constr	ucted or c	urrently	350	N/A	NID4
24	рН	рН	In situ	discharge	0		ut	ilised.			6.5-8.5	N/A	NR1
	TSS	mg/L	Lab Analysis		0	No discharge occurred during August 2021					50	N/A	_
27	Oil & Grease	mg/L	Lab Analysis	Upon	0					21	10	N/A	SD8
	рН	рН	In situ	discharge	0				6.5-8.5	N/A	<u> </u>		



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

EPL ID	Date	Measure d Levels – dB(A) <sup>2</sup>	Measured Levels – dB(A) <sup>2</sup>	Measured Levels – dB(A) <sup>2</sup>	Measured Levels – dB(A) <sup>2</sup>	Limit(s)	Measurement Periods	Weather Compliant Conditions	Compliant (Yes/No)	Date Obtained
		Leq 15min Day	L <sub>eq 15min</sub> Evening	L <sub>eq 15min Night</sub>	L <sub>A1</sub> (1 min) Night			(D/E/N)		
	-		2.26			Day, Evening & Night:	Day – 1.5 hrs			
N5 <sup>1</sup>	-					35 Night	Evening – 0.5 hrs			
	-					L <sub>A1 (1 min)</sub> : 45	Night – 1 hr			
	-					Day, Evening & Night:	Day – 1.5 hrs			
N6	-					35 <u>Night</u>	Evening – 0.5 hrs			
	-					<u>L<sub>A1 (1 min)</sub>:</u> 45	Night – 1 hr			
N8		Monitoring a	t N8 to commend	ce when surface	activities appro	ach the eastern end (	of the southern long	wall panels. Not c	urrently required.	
	-					Day, Evening & Night:	Day – 1.5 hrs			
N9 <sup>1</sup>	-					35 <u>Night</u>	Evening – 0.5 hrs			
	-					L <sub>A1 (1 min)</sub> : 45	Night – 1 hr			

Note: Quarterly attended noise monitoring is required prior to the end of September. There are no results available at the time of reporting.





## NARRABRI MINE – MONTHLY MONITORING SUMMARY

#### **Site Information**

**EPL No:** 12789

**EPA Website Link:** <a href="http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=106922&SYSUID=1&LICID=12789">http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=106922&SYSUID=1&LICID=12789</a>

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 2021
 Obtained Date: 14 October 2021
 Publication Date: 18 October 2021

Table 1 – No Pollutant Limits Apply

		ı				tant Linnes Apply					
EPL	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
ND3	Deposited Matter	g/m²/month	Lab Analysis	Once a month (min. 4 weeks)	1	14/09/21	30/09/21	NA	NA	NA	1.3
11	Conductivity	μs/cm	In situ	Upon discharge	0	Δ	lo discharge occui	erad during Ca	ntambar 202	11 (SDA)	
11	тос	mg/L	Lab Analysis	(within 12 hours)	U	A	io discharge occur	rea during se <sub>l</sub>	oterriber 202	1 (304).	
13	Conductivity	μs/cm	In situ	Upon discharge	0	۸	lo discharge occui	erad during Ca	ntambar 202	1 (502)	
15	тос	mg/L	Lab Analysis	(within 12 hours)	0	A	io discharge occur	rea during se	oterriber 202	1 (302).	
	Conductivity	μs/cm	In situ		0						
	тос	mg/L	Lab Analysis	Quarterly,	0						
14	Oil & Grease	mg/L	Lab Analysis	Upon discharge &	0	No flow events	and/or mine disc	harge occurre	d during Sep	tember 2021	(KC1US)
	рН	рН	In situ	Flow Event	0						
	TSS	mg/L	Lab Analysis		0						
	Conductivity	μs/cm	In situ		0						
	тос	mg/L	Lab Analysis	Quarterly,	0						
15	Oil & Grease	mg/L	Lab Analysis	Upon discharge &	0	No flow event	and/or mine discl	harge occurred	d during Sept	tember 2021	(KC1DS)
	рН	рН	In situ	Flow Event	0						
	TSS	mg/L	Lab Analysis		0						
	Conductivity	μs/cm	In situ	Quarterly,	0						
16	тос	mg/L	Lab Analysis	Upon	0	No flow events	and/or mine disc	harge occurre	d during Sep	tember 2021	(KC2US)

EPL	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
	Oil & Grease	mg/L	Lab Analysis	discharge & Flow Event	0						
	рН	рН	In situ		0						
	TSS	mg/L	Lab Analysis		0						
	Conductivity	μs/cm	In situ		0						
	тос	mg/L	Lab Analysis	Quarterly,	0						
17	Oil & Grease	mg/L	Lab Analysis	Upon discharge &	0	No flow events	and/or mine disc	harge occurre	d during Sep	tember 2021	! (KC2DS)
	рН	рН	In situ	Flow Event	0						
	TSS	mg/L	Lab Analysis		0	Not currently constructed (SD7).					
18	Conductivity	μs/cm	In Situ	Upon discharge	0						
10	тос	mg/L	Lab Analysis	(within 12 hours)	0		NOT CUTT	ently construc	ιεα (3D7).		
	Conductivity	μs/cm	In situ		0						
	тос	mg/L	Lab Analysis	Quarterly,	0						
19	Oil & Grease	mg/L	Lab Analysis	Upon discharge &	0	No flow events	s and/or mine disc	charge occurre	ed during Sep	otember 202	1 (KCUS)
	рН	рН	In situ	Flow Event	0						
	TSS	mg/L	Lab Analysis		0						
	Conductivity	μs/cm	In situ		0						
20	тос	mg/L	Lab Analysis	Quarterly, Upon	0	0 No flow events and/or mine discharge occurred during September 2021 (KCDS)					1 (KCDS)
Oil & Grease mg/L Lab discharg		discharge & Flow Event	0						i (NCDS)		
	рН	рН	In situ		0						

EPL	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value	
	TSS	mg/L	Lab Analysis		0							
	Conductivity	μs/cm	In situ		0							
	тос	mg/L	Lab Analysis	Quarterly,	0							
21	Oil & Grease	mg/L	Lab Analysis	Upon discharge &	0	No flow event	ts and/or mine dis	scharge occur	red during Se	eptember 202	21 (PCa)	
	рН	рН	In situ	Flow Event	0							
	TSS	mg/L	Lab Analysis		0							
	Conductivity	μs/cm	In situ		0							
	тос	mg/L	Lab Analysis	Quarterly,	0							
22	Oil & Grease	mg/L	Lab Analysis	Upon discharge &	0	No flow event	ts and/or mine dis	scharge occur	red during Se	eptember 202	?1 (PC1)	
	рН	рН	In situ	Flow Event	0							
	TSS	mg/L	Lab Analysis		0							
24	рН	рН	In situ	Upon	0	A)				1 / 5 1	24)	
24	TDS	mg/L	Lab Analysis	Discharge (within 4 hrs)	0	Namoi di	scharge point – N	ot constructe	d or currenti	y utilised (Ni	<del>(</del> 1).	
	рН	рН	In situ	Upon	0							
25	TDS	mg/L	Lab Analysis	Discharge (within 4 hrs)	0	Namoi dis	scharge point – No	ot constructed	d or currently	utilised (NR	US).	
26	рН	рН	In situ	Upon	0							
20	TDS	mg/L	Lab Analysis	Discharge (within 4 hrs)	0	Namoi dis	scharge point – No	Not constructed or currently utilised (NRDS).				
	Conductivity	μs/cm	In situ		0							
28	рН	рН	In situ	Quarterly	0		Bore was dry	during sched	uled samplin	ıg.		
	SWL	-	In situ		0							

EPL	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
	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						
	Conductivity	μs/cm	In situ		1	6/10/2021	14/10/2021	NA	NA	NA	12100
	рН	рН	In situ		1	6/10/2021	14/10/2021	NA	NA	NA	7.98
	SWL	mbtoc	In situ		1	6/10/2021	14/10/2021	NA	NA	NA	5.17
	Bicarbonate	mg/L	Lab Analysis		1	6/10/2021	14/10/2021	NA	NA	NA	728
	Calcium	mg/L	Lab Analysis		1	6/10/2021	14/10/2021	NA	NA	NA	64
29	Carbonate	mg/L	Lab Analysis	Quarterly	1	6/10/2021	14/10/2021	NA	NA	NA	<1
	Chloride	mg/L	Lab Analysis		1	6/10/2021	14/10/2021	NA	NA	NA	3540
	Magnesium	mg/L	Lab Analysis		1	6/10/2021	14/10/2021	NA	NA	NA	131
	Potassium	mg/L	Lab Analysis		1	6/10/2021	14/10/2021	NA	NA	NA	9

EPL	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
	Sodium	mg/L	Lab Analysis		1	6/10/2021	14/10/2021	NA	NA	NA	2130
	Sulfate	mg/L	Lab Analysis		1	6/10/2021	14/10/2021	NA	NA	NA	507
	Conductivity	μs/cm	In situ		1	5/10/2021	14/10/2021	NA	NA	NA	19600
	рН	рН	In situ		1	5/10/2021	14/10/2021	NA	NA	NA	7.67
	SWL	mbtoc	In situ		1	5/10/2021	14/10/2021	NA	NA	NA	13.52
	Bicarbonate	mg/L	Lab Analysis		1	5/10/2021	14/10/2021	NA	NA	NA	811
	Calcium	mg/L	Lab Analysis		1	5/10/2021	14/10/2021	NA	NA	NA	170
	Carbonate	mg/L	Lab Analysis		1	5/10/2021	14/10/2021	NA	NA	NA	<1
30	Chloride	mg/L	Lab Analysis	Quarterly	1	5/10/2021	14/10/2021	NA	NA	NA	6040
	Magnesium	mg/L	Lab Analysis		1	5/10/2021	14/10/2021	NA	NA	NA	438
	Potassium	mg/L	Lab Analysis		1	5/10/2021	14/10/2021	NA	NA	NA	17
	Sodium	mg/L	Lab Analysis		1	5/10/2021	14/10/2021	NA	NA	NA	3380
	Sulfate	mg/L	Lab Analysis		1	5/10/2021	14/10/2021	NA	NA	NA	1260
	Conductivity	μs/cm	In situ		1	5/10/2021	14/10/2021	NA	NA	NA	7380
	рН	рН	In situ		1	5/10/2021	14/10/2021	NA	NA	NA	7.76
	SWL	mbtoc	In situ		1	5/10/2021	14/10/2021	NA	NA	NA	16.99
31	Bicarbonate	mg/L	Lab Analysis	Quarterly	1	5/10/2021	14/10/2021	NA	NA	NA	879
	Calcium	mg/L	Lab Analysis		1	5/10/2021	14/10/2021	NA	NA	NA	90
	Carbonate	mg/L	Lab Analysis		1	5/10/2021	14/10/2021	NA	NA	NA	<1

EPL	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value		
	Chloride	mg/L	Lab Analysis		1	5/10/2021	14/10/2021	NA	NA	NA	1820		
	Magnesium	mg/L	Lab Analysis		1	5/10/2021	14/10/2021	NA	NA	NA	148		
	Potassium	mg/L	Lab Analysis		1	5/10/2021	14/10/2021	NA	NA	NA	12		
	Sodium	mg/L	Lab Analysis		1	5/10/2021	14/10/2021	NA	NA	NA	1120		
	Sulfate	mg/L	Lab Analysis		1	5/10/2021	14/10/2021	NA	NA	NA	324		
	Conductivity	μs/cm	In situ		1	5/10/2021	14/10/2021	NA	NA	NA	2000		
	рН	рН	In situ		1	5/10/2021	14/10/2021	NA	NA	NA	8.54		
	SWL	mbtoc	In situ		1	5/10/2021	14/10/2021	NA	NA	NA	7.88		
	Bicarbonate	mg/L	Lab Analysis		1	5/10/2021	14/10/2021	NA	NA	NA	954		
	Calcium	mg/L	Lab Analysis		1	5/10/2021	14/10/2021	NA	NA	NA	1		
	Carbonate	mg/L	Lab Analysis		1	5/10/2021	14/10/2021	NA	NA	NA	67		
32	Chloride	mg/L	Lab Analysis	Quarterly	1	5/10/2021	14/10/2021	NA	NA	NA	40		
	Magnesium	mg/L	Lab Analysis		1	5/10/2021	14/10/2021	NA	NA	NA	4		
	Potassium	mg/L	Lab Analysis		1	5/10/2021	14/10/2021	NA	NA	NA	<1		
	Sodium	mg/L	Lab Analysis		1	5/10/2021	14/10/2021	NA	NA	NA	449		
	Sulfate	mg/L	Lab Analysis		1	5/10/2021	14/10/2021	NA	NA	NA	67		
	Conductivity	μs/cm	In situ		0				·				
33	рН	рН	In situ	Quarterly	0	Bore was dry during scheduled sampling.							
	SWL	mbtoc	In situ		0								

EPL	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
	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						
	Conductivity	μs/cm	In situ		0						
	рН	рН	In situ		0						
	SWL	mbtoc	In situ		0						
	Bicarbonate	mg/L	Lab Analysis		0						
	Calcium	mg/L	Lab Analysis		0						
34	Carbonate	mg/L	Lab Analysis	Quarterly	0		Bore was dry	during sched	uled samplin	g.	
	Chloride	mg/L	Lab Analysis		0						
	Magnesium	mg/L	Lab Analysis		0						
	Potassium	mg/L	Lab Analysis		0						

EPL	Pollutant	Units of Measure	Sample Method	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
	Sodium	mg/L	Lab Analysis		0						
	Sulfate	mg/L	Lab Analysis		0						
	Conductivity	μs/cm	In situ		1	5/10/2021	14/10/2021	NA	NA	NA	11100
	рН	рН	In situ		1	5/10/2021	14/10/2021	NA	NA	NA	7.19
	SWL	mbtoc	In situ		1	5/10/2021	14/10/2021	NA	NA	NA	18.56
	Bicarbonate	mg/L	Lab Analysis		1	5/10/2021	14/10/2021	NA	NA	NA	5080
	Calcium	mg/L	Lab Analysis		1	5/10/2021	14/10/2021	NA	NA	NA	66
	Carbonate	mg/L	Lab Analysis		1	5/10/2021	14/10/2021	NA	NA	NA	<1
35	Chloride	mg/L	Lab Analysis	Quarterly	1	5/10/2021	14/10/2021	NA	NA	NA	1030
	Magnesium	mg/L	Lab Analysis		1	5/10/2021	14/10/2021	NA	NA	NA	79
	Potassium	mg/L	Lab Analysis		1	5/10/2021	14/10/2021	NA	NA	NA	59
	Sodium	mg/L	Lab Analysis		1	5/10/2021	14/10/2021	NA	NA	NA	2670
	Sulfate	mg/L	Lab Analysis		1	5/10/2021	14/10/2021	NA	NA	NA	83

<sup>\*</sup>Note: Access was not available to EPL points 29-32 & 35 in September due to wet weather

# 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)
	TSS	mg/L	Lab Analysis		0						50	N/A	
11	Oil & Grease	mg/L	Lab Analysis	Upon discharge	0	No disch	No discharge occurred during September 2021				10	N/A	SD4
	рН	рН	In situ	uischarge	0						6.5-8.5	N/A	

	TSS	mg/L	Lab Analysis	11	0		50	N/A	
13	Oil & Grease	mg/L	Lab Analysis	Upon discharge	0	No discharge occurred during September 2021	10	N/A	SD2
	рН	рН	In situ	uischarge	0		6.5-8.5	N/A	
	TSS	mg/L	Lab Analysis		0		50	N/A	SD7
18	Oil & Grease	mg/L	Lab Analysis	Upon discharge	0	Not currently constructed.	10	N/A	
	рН	рН	In situ	uischarge	0		6.5-8.5	N/A	
24	TDS	mg/L	Lab Analysis	Upon	0	Namoi discharge point – Not constructed or currently	350	N/A	ND1
24	рН	рН	In situ	discharge	0	utilised.	6.5-8.5	N/A	NR1
	TSS	mg/L	Lab Analysis		0		50	N/A	
27	Oil & Grease	mg/L	Lab Analysis	Upon discharge	0	No discharge occurred during September 2021	10	N/A	SD8
	рН	рН	In situ	uiscilaige	0		6.5-8.5	N/A	

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

EPL ID	Date	Measure d Levels – dB(A) L <sub>eq 15min Day</sub>	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 <sup>2</sup> (D/E/N)	Compliant (Yes/No)	Date Obtained
	20/09/2021 <sup>3</sup>	I/A	25	I/A	I/A	Day, Evening & Night:	Day – 1.5 hrs	N/N/Y	Yes	08/10/2021
N5 <sup>1</sup>	21/09/2021 <sup>3</sup>	I/A	I/A	I/A	I/A	35 <u>Night</u>	Evening – 0.5 hrs	Y/N/Y	Yes	08/10/2021
	22/09/2021 <sup>3</sup>	31	I/A	I/A	I/A	L <sub>A1 (1 min)</sub> : <b>4</b> 5	Night – 1 hr	Y/Y/N	Yes	08/10/2021
	20/09/2021³	I/A	28	30	34	Day, Evening & Night:	Day – 1.5 hrs	N/N/Y	Yes	08/10/2021
N6	21/09/20213	28	33	34	40	35 <u>Night</u>	Evening – 0.5 hrs	Y/N/Y	Yes	08/10/2021
	22/09/2021 <sup>3</sup>	27	23	31	34	<u>L<sub>A1 (1 min)</sub>:</u> <b>4</b> 5	Night – 1 hr	Y/N/Y	Yes	08/10/2021
	20/09/2021 <sup>3</sup>	I/A	24	I/A	I/A	Day, Evening & Night:	Day – 1.5 hrs	N/N/N	Yes	08/10/2021
N8 <sup>1,4</sup>	21/09/2021 <sup>3</sup>	I/A	I/A	I/A	I/A	35 <u>Night</u>	Evening – 0.5 hrs	N/Y/Y	Yes	08/10/2021
	22/09/2021 <sup>3</sup>	I/A	I/A	25	27	<u>La1 (1 min):</u> <b>4</b> 5	Night – 1 hr	Y/Y/N	Yes	08/10/2021
	20/09/2021	I/A	31	<25	25	Day, Evening & Night:	Day – 1.5 hrs	N/N/N	Yes	08/10/2021
N9 <sup>1</sup>	21/09/2021	I/A	I/A	33	39	35 <u>Night</u>	Evening – 0.5 hrs	N/Y/Y	Yes	08/10/2021
	22/09/2021	I/A	30	I/A	I/A	L <sub>A1 (1 min)</sub> : 45	Night – 1 hr	Y/N/Y	Yes	08/10/2021

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

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

Note 4: Due to an error, only one 15-minute measurement was able to be undertaken during the daytime monitoring on 22 September.





## NARRABRI MINE – MONTHLY MONITORING SUMMARY

#### **Site Information**

**EPL No:** 12789

**EPA Website Link:** <a href="http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=106922&SYSUID=1&LICID=12789">http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=106922&SYSUID=1&LICID=12789</a>

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 2021 **Obtained Date:** 2 December 2021 **Publication Date:** 16 December 2021

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/m²/month	Lab Analysis	Once a month (min. 4 weeks)	1	10/11/2021	30/11/2021	NA	NA	NA	0.4
11	Conductivity	μs/cm	In situ	Upon discharge	1	24/11/2021	1/12/2021	-	-	-	747
11	тос	mg/L	Lab Analysis	(within 12 hours)	1	24/11/2021	1/12/2021	-	-	-	10
13	Conductivity	discharge	3	10/11/2021 15/11/2021	1/12/2021	344	451	501	508		
15	тос	mg/L	Lab Analysis	(within 12 hours)	3	22/11/2021	1/12/2021	9	11	11	13
	Conductivity	μs/cm	In situ	Quarterly, Upon discharge &	2	10/11/2021* 15/11/2021* 22/11/2021 24/11/2021	2/12/2021	98	123	-	148
	тос	mg/L	Lab Analysis		2		2/12/2021	17	17.5	-	18
14	Oil & Grease	mg/L	Lab Analysis		2		2/12/2021	<5	<5	-	<5
	рН	рН	In situ	Flow Event	2		2/12/2021	7.63	7.74	-	7.84
	TSS	mg/L	Lab Analysis		2		2/12/2021	24	45.5	-	67
	Conductivity	μs/cm	In situ		3		2/12/2021	136	288.7	350	380
	тос	mg/L	Lab Analysis	Quarterly,	3	10/11/2021*	2/12/2021	18	19	19	20
15	Oil & Grease	mg/L	Lab Analysis	Upon discharge &	3	15/11/2021 22/11/2021 24/11/2021	2/12/2021	<5	<5	<5	<5
	рН	рН	In situ	Flow Event	3		2/12/2021	7.6	7.81	7.91	7.92
	TSS	mg/L	Lab Analysis		3		2/12/2021	22	41.67	26	77
16	Conductivity	μs/cm	In situ		1	10/11/2021*	1/12/2021	-	-	-	62

<sup>\*</sup> No flow recorded at sample site

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
	тос	mg/L	Lab Analysis		1	15/11/2021* 22/11/2021	1/12/2021	-	-	-	20
	Oil & Grease	mg/L	Lab Analysis	Quarterly, Upon	1	24/11/2021*	1/12/2021	-	-	-	<5
	рН	рН	In situ	discharge & Flow Event	1		1/12/2021	-	-	-	7.22
	TSS	mg/L	Lab Analysis	How Event	1		1/12/2021	-	-	-	24
	Conductivity	μs/cm	In situ		3		2/12/2021	101	280	204	535
	тос	mg/L	Lab Analysis	Quarterly,	3	10/11/2021*	2/12/2021	11	15.7	17	19
17	Oil & Grease	mg/L	Lab Analysis	Upon discharge &	3	15/11/2021 22/11/2021	2/12/2021	<5	<5	<5	<5
	рН	рН	In situ	Flow Event	3	24/11/2021	2/12/2021	7.4	7.62	- - - - 204	7.94
	TSS	mg/L	Lab Analysis		3		2/12/2021	16	19.67		22
	Conductivity	μs/cm	In Situ	Upon discharge	0			.,			
18	тос	mg/L	Lab Analysis	(within 12 hours)	0		Not curr	ently construc	ted (SD7).		
	Conductivity	μs/cm	In situ		3		2/12/2021	154	449	517	622
	тос	mg/L	Lab Analysis	Quarterly,	3	10/11/2021*	2/12/2021	6	13	13	20
19	Oil & Grease	mg/L	Lab Analysis	Upon discharge &	3	15/11/2021 22/11/2021	2/12/2021	<5	<5	<5	<5
	рН	рН	In situ	Flow Event	3	24/11/2021	2/12/2021	7.4	7.71	7.8	7.93
	TSS	mg/L	Lab Analysis		3		2/12/2021	<5	35	<5	96
20	Conductivity	μs/cm	In situ		1	10/11/2021*	2/12/2021	-	-	-	120

<sup>\*</sup> No flow recorded at sample site

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
	тос	mg/L	Lab Analysis		1	15/11/2021* 22/11/2021	2/12/2021	-	-	-	19
	Oil & Grease	mg/L	Lab Analysis	Quarterly, Upon	1	24/11/2021*	2/12/2021	-	-	-	<5
	рН	рН	In situ	discharge & Flow Event	1		2/12/2021	-	-	-	7.44
	TSS	mg/L	Lab Analysis	TIOW EVEIL	1		2/12/2021	-	-	-	48
	Conductivity	μs/cm	In situ		0						
	тос	mg/L	Lab Analysis	Quarterly,	0						
21	Oil & Grease	mg/L	Lab Analysis	Upon discharge &	0	0					
	рН	рН	In situ	Flow Event	0						
	TSS	mg/L	Lab Analysis		0		2/12/2021 118 145.3 153				
	Conductivity	μs/cm	In situ		3		2/12/2021	118	145.3	153	165
	тос	mg/L	Lab Analysis	Quarterly,	3	10/11/2021*	2/12/2021	12	16	18	18
22	Oil & Grease	mg/L	Lab Analysis	Upon discharge &	3	15/11/2021 22/11/2021	2/12/2021	<5	<5	<5	<5
	рН	рН	In situ	Flow Event	3	24/11/2021	2/12/2021	7.37	7.56	7.57	7.75
	TSS	mg/L	Lab Analysis		3		2/12/2021	19	58.67	77	80
	рН	рН	In situ	Upon	0						
24	TDS	mg/L	Lab Analysis	Discharge (within 4 hrs)	0	Namoi di	ischarge point – N	ot constructed	d or currentl	y utilised (NF	(1).
	рН	рН	In situ	Upon	0						
25	TDS	mg/L	Lab Analysis	Discharge (within 4 hrs)	0	Namoi dis	scharge point – No	ot constructed	or currently		US).

<sup>\*</sup> No Flow recorded at sample site

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
26	рН	рН	In situ	Upon	0						
20	TDS	mg/L	Lab Analysis	Discharge (within 4 hrs)	0	Namoi dis	scharge point – No	ot constructed	d or currently	/ utilised (NR	DS).
	Conductivity	μs/cm	In situ		0						
	рН	рН	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						
28	Chloride	mg/L	Lab Analysis	Lab Quarterly 0 Not scheduled for sampling in November 202 Analysis	2021.						
	Magnesium	mg/L	Lab Analysis		0						
	Potassium	mg/L	Lab Analysis		0						
	Sodium	mg/L	Lab Analysis		0						
	Sulfate	mg/L	Lab Analysis		0						
	Conductivity	μs/cm	In situ		0						
	рН	рН	In situ		0						
	SWL	mbtoc	In situ		0						
29	Bicarbonate	mg/L	Lab Analysis	Quarterly	0		Not scheduled f	for sampling in	n November .	2021.	
	Calcium	mg/L	Lab Analysis		0						
	Carbonate	mg/L	Lab Analysis		0						

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	
	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							
	Conductivity	μs/cm	In situ		0							
	рН	рН	In situ		0							
	SWL	mbtoc	In situ		0							
	Bicarbonate	SWL mbtoc In situ  carbonate mg/L Lab     Analysis  Calcium mg/L Lab     Analysis  O  O  O  D  D  D  D  D  D  D  D  D  D										
	Calcium	mg/L			0							
	Carbonate	mg/L	Lab Analysis		0							
30	Chloride	mg/L	Lab Analysis	Quarterly	0		Not scheduled fo	or sampling in	November 2	2021.		
	Magnesium	mg/L	Lab Analysis		0							
	Potassium	mg/L	Lab Analysis		0							
	Sodium	mg/L	Lab Analysis		0							
	Sulfate	mg/L	Lab Analysis		0							
	Conductivity	μs/cm	In situ		0							
31	рН	рН	In situ	Quarterly	0		Not scheduled fo	or sampling in	November 2	2021.		
	SWL	mbtoc	In situ		0		Not scheduled for sampling in November 2021.					

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
	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						
	Conductivity	μs/cm	In situ		0						
	рН	рН	In situ		0						
	SWL	mbtoc	In situ		0						
	Bicarbonate	mg/L	Lab Analysis		0						
	Calcium	mg/L	Lab Analysis		0						
32	Carbonate	mg/L	Lab Analysis		0		Not scheduled f	or sampling ir	November .	2021.	
	Chloride	mg/L	Lab Analysis		0						
	Magnesium	mg/L	Lab Analysis		0						
	Potassium	mg/L	Lab Analysis		0						

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	
	Sodium	mg/L	Lab Analysis		0							
	Sulfate	mg/L	Lab Analysis		0							
	Conductivity	μs/cm	In situ		0							
	рН	рН	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							
33	Chloride	mg/L	Lab Analysis	Quarterly	0	Not scheduled for sampling in November 2021.						
	Magnesium	mg/L	Lab Analysis		0							
	Potassium	mg/L	Lab Analysis		0							
	Sodium	mg/L	Lab Analysis		0							
	Sulfate	mg/L	Lab Analysis		0							
	Conductivity	μs/cm	In situ		0							
	рН	рН	In situ		0							
	SWL	mbtoc	In situ		0							
34	Bicarbonate	mg/L	Lab Analysis	Quarterly	0		Not scheduled for sampling in November 2021.					
	Calcium	mg/L	Lab Analysis	Quarterly	0	0						
	Carbonate	mg/L	Lab Analysis		0							

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
	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						
	Conductivity	μs/cm	In situ		0						
	рН	рН	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						
35	Chloride	mg/L	Lab Analysis	Quarterly	0		Not scheduled f	or sampling in	November 2	2021.	
	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)
	TSS	mg/L	Lab Analysis		1		1/12/2021	-	-	46	50	No	
11	Oil & Grease	mg/L	Lab Analysis	Upon discharge	1	24/11/2021	1/12/2021	-	-	<5	10	No	SD4
	рН	рН	In situ		1		1/12/2021	-	-	8.28	6.5-8.5	No	
	TSS	mg/L	Lab Analysis		3	10/11/2021	1/12/2021	6	39	70ª	50	No	
13 Oil	Oil & Grease	mg/L	Lab Analysis	Upon discharge	3	15/11/2021 22/11/2021	1/12/2021	<5	<5	<5	10	No	SD2
	рН	рН	In situ		3		1/12/2021	7.95	8.04	8.13	6.5-8.5	No	
	TSS	mg/L	Lab Analysis		0						50	N/A	
18	Oil & Grease	mg/L	Lab Analysis	Upon discharge	0		Not currently	constructe	ed.		10	N/A	SD7
	рН	рН	In situ		0						6.5-8.5	N/A	
24	TDS	mg/L	Lab Analysis	Upon	0	Namoi discha	rge point – No		cted or cur	rently	350	N/A	NR1
	рН	рН	In situ	discharge	0	utilised.					6.5-8.5	N/A	
	TSS	mg/L	Lab Analysis		0	50 N/A							
27	Oil & Grease	mg/L	Lab Analysis	Upon discharge	0	0 No discharge occurred during November 2021 10 N/A					N/A	SD8	
	рН	рН	In situ		0					6.5-8.5	N/A		

<sup>&</sup>lt;sup>a</sup> EPL limit does not apply as 5 day consecutive rainfall exceeded 38.4 mm



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

EPL ID	Date	Measure d Levels – dB(A) L <sub>eq 15min Day</sub>	Measured Levels – dB(A) Leq 15min Evening	Measured Levels – dB(A) Leq 15min Night	Measured Levels – dB(A) L <sub>A1 (1 min) Night</sub>	Limit(s)	Measurement Periods	Weather Compliant Conditions <sup>2</sup> (D/E/N)	Compliant (Yes/No)	Date Obtained
	-					Day, Evening & Night:	Day – 1.5 hrs			
N5 <sup>1</sup>	-					35 <u>Night</u>	Evening – 0.5 hrs			
	-					L <sub>A1 (1 min)</sub> : 45	Night – 1 hr			
	-					Day, Evening & Night:	Day – 1.5 hrs			
N6	-					35 <u>Night</u>	Evening – 0.5 hrs			
	-					<u>L<sub>A1 (1 min)</sub>:</u> 45	Night – 1 hr			
	-					Day, Evening & Night:	Day – 1.5 hrs			
N8 <sup>1,4</sup>	-					35 <u>Night</u>	Evening – 0.5 hrs			
	-					<u>L<sub>A1 (1 min)</sub>:</u> <b>4</b> 5	Night – 1 hr			
	-					Day, Evening & Night:	Day – 1.5 hrs			
N9 <sup>1</sup>	-					35 <u>Night</u>	Evening – 0.5 hrs			
	-					L <sub>A1 (1 min)</sub> : 45	Night – 1 hr			

Note: Quarterly attended noise monitoring is required prior to the end of December. There are no results available at the time of reporting.





## NARRABRI MINE – MONTHLY MONITORING SUMMARY

## **Site Information**

**EPL No:** 12789

**EPA Website Link:** <a href="http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=106922&SYSUID=1&LICID=12789">http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=106922&SYSUID=1&LICID=12789</a>

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 2021 **Obtained Date:** 14 January 2022 **Publication Date:** 20/01/2022



**Table 1 – No Pollutant Limits Apply** 

				lak		tant Limits Apply			F		
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/m²/month	Lab Analysis	Once a month (min. 4 weeks)	1	14/12/2021	4/01/2022	NA	NA	NA	0.9
11	Conductivity	μs/cm	In situ	Upon discharge	1	0/12/2021	15/12/2021	NA	NA	NA	870
11	тос	mg/L	Lab Analysis	(within 12 hours)	1	9/12/2021	15/12/2021	NA	NA	NA	10
42	Conductivity	μs/cm	In situ	Upon discharge	1	40/42/2024	24 /42 /2024	NA	NA	NA	601
13	тос	mg/L	Lab Analysis	(within 12 hours)	1	10/12/2021	21/12/2021	NA	NA	NA	13
	Conductivity	μs/cm	In situ		2			106	113	-	120
	тос	mg/L	Lab Analysis	Quarterly,	2			10	10.5	-	11
14	Oil & Grease	mg/L	Lab Analysis	Upon discharge &	2	9/12/2021 10/12/2021	24/12/2021	<5	<5	-	<5
	рН	рН	In situ	Flow Event	2			7.68	7.71	-	7.73
	TSS	mg/L	Lab Analysis		2			38	43.5	-	49
	Conductivity	μs/cm	In situ		2			236	465	-	694
	тос	mg/L	Lab Analysis	Quarterly,	2			13	15.5	-	18
15	Oil & Grease	mg/L	Lab Analysis	Upon discharge &	2	9/12/2021 10/12/2021	24/12/2021	<5	<5	-	<5
	рН	рН	In situ	Flow Event	2			8.04	8.15	-	8.25
	TSS	mg/L	Lab Analysis		2			101	130.5	-	160

	Conductivity	μs/cm	In situ		1			-	-	-	49
	тос	mg/L	Lab Analysis	Quarterly,	1			-	-	-	14
16	Oil & Grease	mg/L	Lab Analysis	Upon discharge &	1	9/12/2021 10/12/2021 <sup>1</sup>	21/12/2021	-	-	-	<5
	рН	рН	In situ	Flow Event	1			-	-	-	7.01
	TSS	mg/L	Lab Analysis		1			-	-	-	20
	Conductivity	μs/cm	In situ		2			104	125.5	-	147
	тос	mg/L	Lab Analysis	Quarterly,	2			12	14	ı	16
17	Oil & Grease	mg/L	Lab Analysis	Upon discharge &	2	9/12/2021 10/12/2021	24/12/2021	<5	<5	-	<5
	рН	рН	In situ	Flow Event	2			7.42	7.53	1	7.64
	TSS	mg/L	Lab Analysis		2			22	24	-	26
	Conductivity	μs/cm	In Situ	Upon discharge	0						
18	тос	mg/L	Lab Analysis	(within 12 hours)	0		Not curre	ently construc	ted (SD7).		
	Conductivity	μs/cm	In situ		2			211	341	-	471
	тос	mg/L	Lab Analysis	Quarterly,	2	0/40/2004		11	13	-	15
19	Oil & Grease	mg/L	Lab Analysis	Upon discharge &	2	9/12/2021 10/12/2021	24/12/202	<5	<5	-	<5
	рН	рН	In situ	Flow Event	2	]		7.42	7.58	1	7.74
	TSS	mg/L	Lab Analysis		2			15	34.5	ı	54
	Conductivity	μs/cm	In situ	Quarterly,	1	9/12/2021		-	-	-	130
20	тос	mg/L	Lab Analysis	Upon	1	10/12/2021*	21/12/2021	-	-	-	13

<sup>&</sup>lt;sup>1</sup> No flow recorded at sample site



	Oil & Grease	mg/L	Lab Analysis	discharge & Flow Event	1			-	-	-	<5
	рН	рН	In situ		1			-	-	-	7.41
	TSS	mg/L	Lab Analysis		1			-	-	-	36
	Conductivity	μs/cm	In situ		2			99	172.2	172.2	246
	тос	mg/L	Lab Analysis	Quarterly,	2			18	21.5	21.5	25
21	Oil & Grease	mg/L	Lab Analysis	Upon discharge &	2	9/12/2021 10/12/2021	24/12/2021	<5	<5	<5	<5
	рН	рН	In situ	Flow Event	2			7.48	7.5	7.5	7.51
	TSS	mg/L	Lab Analysis		2			58	65.5	65.5	73
	Conductivity	μs/cm	In situ		2			117	126	126	135
	тос	mg/L	Lab Analysis	Quarterly,	2			11	12.5	12.5	14
22	Oil & Grease	mg/L	Lab Analysis	Upon discharge &	2	9/12/2021 10/12/2021	24/12/2021	<5	<5	<5	<5
	рН	рН	In situ	Flow Event	2	, ,		7.42	7.64	7.64	7.85
	TSS	mg/L	Lab Analysis		2			87	68.5	68.5	87
	рН	рН	In situ	Upon	0						
24	TDS	mg/L	Lab Analysis	Discharge (within 4 hrs)	0	Namoi d	ischarge point – N	ot constructe	d or currentl	y utilised (NF	R1).
	рН	рН	In situ	Upon	0						
25	TDS	mg/L	Lab Analysis	Discharge (within 4 hrs)	0	Namoi di	scharge point – No	t constructed	l or currently	utilised (NR	US).
	рН	рН	In situ	Upon	0						
26	TDS	mg/L	Lab Analysis	Discharge (within 4 hrs)	0	Namoi di	scharge point – No	ot constructed	l or currently	utilised (NR	DS).
	Conductivity	μs/cm	In situ		0						
28	рН	рН	In situ	Quarterly	0		Bore was dry	during sched	luled samplin	g	
	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						
	Conductivity	μs/cm	In situ		1			-	-	-	16505
	рН	рН	In situ		1			-	-	-	7.4
	SWL	mbtoc	In situ		1			-	-	-	4.99
	Bicarbonate	mg/L	Lab Analysis		1		18/01/2022	-	-	-	606
	Calcium	mg/L	Lab Analysis		1			-	-	-	88
	Carbonate	mg/L	Lab Analysis		1			1	-	-	<1
29	Chloride	mg/L	Lab Analysis	Quarterly	1	11/01/2022		-	-	-	5400
	Magnesium	mg/L	Lab Analysis		1			-	-	-	231
	Potassium	mg/L	Lab Analysis		1			-	-	-	6
	Sodium	mg/L	Lab Analysis		1			-	-	-	2670
	Sulfate	mg/L	Lab Analysis		1			-	-	-	666

	Conductivity	μs/cm	In situ		0			-	_	_	19590
	рН	рН	In situ		0			_	_	_	7.05
	SWL	mbtoc	In situ		0			_	_		13.40
	Bicarbonate	mg/L	Lab Analysis		0			-	-	-	867
	Calcium	mg/L	Lab Analysis		0			-	-	-	162
	Carbonate	mg/L	Lab Analysis		0			-	-	-	<1
30	Chloride	mg/L	Lab Analysis	Quarterly	0	11/01/2022	18/01/2022	-	-	-	6540
	Magnesium	mg/L	Lab Analysis		0			-	-	-	436
	Potassium	mg/L	Lab Analysis	_	0			-	-	-	19
	Sodium	mg/L	Lab Analysis		0			-	-	-	3720
	Sulfate	mg/L	Lab Analysis		0			-	-	ı	1300
	Conductivity	μs/cm	In situ		1			-	-	-	7080
	рН	рН	In situ		1			-	-	-	7.29
	SWL	mbtoc	In situ		1			-	-	ı	15.71
	Bicarbonate	mg/L	Lab Analysis		1			-	-	-	698
	Calcium	mg/L	Lab Analysis		1	04/01/2022		-	-	ı	81
31	Carbonate	mg/L	Lab Analysis	Quarterly	1	04/01/2022	14/01/2022	-	-	-	<1
	Chloride	mg/L	Lab Analysis	_	1			-	-	-	1720
	Magnesium	mg/L	Lab Analysis		1			-	-	-	150
	Potassium	mg/L	Lab Analysis		1			-	-	-	12

	Sodium	mg/L	Lab Analysis		1			-	-	-	1100
	Sulfate	mg/L	Lab Analysis		1			-	-	-	309
	Conductivity	μs/cm	In situ		1	-		-	-	-	2459
	рН	рН	In situ		1			-	-	-	8.33
	SWL	mbtoc	In situ		1			-	-	-	26.4
	Bicarbonate	mg/L	Lab Analysis		1		14/01/2022	-	-	-	779
	Calcium	mg/L	Lab Analysis		1			-	-	-	1
	Carbonate	mg/L	Lab Analysis	Quarterly	1			-	-	-	131
32	Chloride	mg/L	Lab Analysis		1	04/01/2022		-	-	-	182
	Magnesium	mg/L	Lab Analysis		1			-	-	-	10
	Potassium	mg/L	Lab Analysis		1			-	-	-	1
	Sodium	mg/L	Lab Analysis		1			-	-	-	554
	Sulfate	mg/L	Lab Analysis		1			-	-	-	132
	Conductivity	μs/cm	In situ		0						
	рН	рН	In situ		0						
	SWL	mbtoc	In situ		0						
	Bicarbonate	mg/L	Lab Analysis								
	Calcium	mg/L	Lab Analysis	Quarterly	0						
33	Carbonate	mg/L	Lab Analysis		0		Bore was dry	during sched	uled samplin	ng	
	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										
	Conductivity	μs/cm	In situ		0										
	рН	рН	In situ		0										
	SWL	mbtoc	In situ		0										
	Bicarbonate	mg/L	Lab Analysis	Quarterly	0										
	Calcium	mg/L	Lab Analysis		0										
	Carbonate	mg/L	Lab Analysis		0										
34	Chloride	mg/L	Lab Analysis		0		Bore was dry during scheduled sampling								
	Magnesium	mg/L	Lab Analysis		0										
	Potassium	mg/L	Lab Analysis		0										
	Sodium	mg/L	Lab Analysis		0										
	Sulfate	mg/L	Lab Analysis		0										
	Conductivity	μs/cm	In situ		1			-	-	-	11031				
	рН	рН	In situ		1			-	-	-	7.16				
	SWL	mbtoc	In situ	Quarterly	1			-	-	-	18.45				
35	Bicarbonate	mg/L	Lab Analysis		1	04/01/2022	14/01/2022	-	-	-	4510				
	Calcium	mg/L	Lab Analysis		1			-	-	-	50				

,			 ,	 	,			
Carbonate	mg/L	Lab Analysis	1		-	-	-	<1
Chloride	mg/L	Lab Analysis	1		-	-	-	1170
Magnesium	mg/L	Lab Analysis	1		-	-	-	80
Potassium	mg/L	Lab Analysis	1		-	-	-	70
Sodium	mg/L	Lab Analysis	1		-	-	-	2860
Sulfate	mg/L	Lab Analysis	1		-	-	-	90

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)
	TSS	mg/L	Lab Analysis		1			-	-	56ª	50	No	
11	Oil & Grease	mg/L	Lab Analysis	Upon discharge	1	9/12/2021	15/12/2021	-	-	<5	10	No	SD4
	рН	рН	In situ		1			-	-	8.08	6.5- 8.5	No	
	TSS	mg/L	Lab Analysis		1			-	-	80ª	50	No	
13	Oil & Grease	mg/L	Lab Analysis	Upon discharge	1	10/12/2021	21/12/2021	-	-	<5	10	No	SD2
	рН	рН	In situ		1			-	-	7.78	6.5- 8.5	No	
	TSS	mg/L	Lab Analysis		0						50	N/A	
18	Oil & Grease	mg/L	Lab Analysis	Upon discharge	0		Not currently construc	cted.			10	N/A	SD7
	рН	рН	In situ		0								1
24	TDS	mg/L	Lab Analysis	Upon	0	A1		,		,	350	N/A	ND4
24	рН	рН	In situ	discharge	0	Namoi aiscnarge	point – Not constructe	a or currer	itiy utilise	ra.	6.5- 8.5	N/A	NR1
	TSS	mg/L	Lab Analysis		0						50	N/A	
27	Oil & Grease	mg/L	Lab Analysis	Upon discharge	0	No discha	No discharge occurred during November 2021						SD8
	рН	рН	In situ	,	0						6.5- 8.5	N/A	

<sup>&</sup>lt;sup>a</sup> EPL limit does not apply as 5 day consecutive rainfall exceeded 38.4 mm

## Table 3 – Quarterly Attended Noise Monitoring results summary table <sup>a</sup>

EPL ID	Date	Measure d Levels – dB(A) Leq 15min Day	Measured Levels – dB(A) Leq 15min Evening	Measured Levels – dB(A) Leq 15min Night	Measured Levels – dB(A) L <sub>A1 (1 min) Night</sub>	Limit(s)	Measurement Periods	Weather Compliant Conditions (D/E/N)	Compliant (Yes/No)	Date Obtained
	-		3			Day, Evening & Night:	Day – 1.5 hrs			
N5	-					35 <u>Night</u>	Evening – 0.5 hrs			
	-					L <sub>A1 (1 min)</sub> : 45	Night – 1 hr			
	-					Day, Evening & Night:	Day – 1.5 hrs			
N6	-					35 <u>Night</u>	Evening – 0.5 hrs			
	-					<u>L<sub>A1 (1 min)</sub>:</u> 45	Night – 1 hr			
	-					Day, Evening & Night:	Day – 1.5 hrs			
N8	-					35 <u>Night</u>	Evening – 0.5 hrs			
	-					<u>L<sub>A1 (1 min)</sub>:</u> 45	Night – 1 hr			
	-					Day, Evening & Night:	Day – 1.5 hrs			
N9	-					35 Night	Evening – 0.5 hrs			
	-					<u>La1 (1 min):</u> 45	Night – 1 hr			

<sup>a</sup> Noise monitoring for December 2021 completed but results have not been received. These results will be published in the January 2022 EPL report.

