

SUNNYSIDE COAL MINE – MONTHLY MONITORING SUMMARY
Site Information
EPL No: 12957

EPA Website Link: <http://epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=40292&SYSUID=1&LICID=12957>
Licensee: Namoi Mining Pty Ltd

Licensee Address: Sunnyside Coal Project, 259 Coocooboona Lane, GUNNEDAH NSW 2380

EPL Monitoring Points: See Figure 1 below

Sampling Period: June 2019

Obtained Date: 11 July 2019

Publication Date: 11 July 2019

Table 1 - No Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date(s) Sampled	Date(s) Obtained	Min Value	Mean Value	Median Value	Max or Only Value
1	Particulates-Deposited Matter	g/m ² /month	Continuous	1	17/05/19	31/05/19	-	-	-	1.5
2	Particulates-Deposited Matter	g/m ² /month	Continuous	1	17/05/19	31/05/19	-	-	-	2.4
4	Particulates-Deposited Matter	g/m ² /month	Continuous	1	17/05/19	31/05/19	-	-	-	3.6
5	Particulates-Deposited Matter	g/m ² /month	Continuous	1	17/05/19	31/05/19	-	-	-	2.8
6	Particulates-Deposited Matter	g/m ² /month	Continuous	1	17/05/19	31/05/19	-	-	-	2.4
7	PM ₁₀	µg/m ³	Every 6 days	5	Various	31/05/19	10.1	14.12	13.65	15.1
9	Conductivity	µS/cm	Special Frequency 1*	1	-	-	-	-	-	-
	Total organic carbon	mg/L					-	-	-	-
10	Conductivity	µS/cm		-	-	-	-	-	-	-

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	Total organic carbon	mg/L	Special Frequency 1*				-	-	-	-
11	TSS	mg/L	Special Frequency 2**	-	-	-	-	-	-	-
	Conductivity	µS/cm		-			-	-	-	
	Oil & Grease	mg/L		-			-	-	-	
	pH	pH		-			-	-	-	
	Total organic carbon	mg/L		-			-	-	-	
12	TSS	mg/L	Special Frequency 2**	-	-	-	-	-	-	-
	Conductivity	µS/cm		-			-	-	-	
	Oil & Grease	mg/L		-			-	-	-	
	pH	pH		-			-	-	-	
	Total organic carbon	mg/L		-			-	-	-	

Table 2 - Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Max Value	100%ile Limit	Exceedance (Yes/No)	Comments
9	TSS	mg/L	Special Frequency 1*	0	-	-	-	-	50	-	No discharge
	Oil & Grease	mg/L		0			-	-	10	-	No discharge
	pH	pH		0			-	-	6.5-8.5	-	No discharge
10	TSS	mg/L	Special Frequency 1*	0	-	-	-	-	50	-	No discharge
	Oil & Grease	mg/L		0			-	-	10	-	No discharge
	pH	pH		0			-	-	6.5-8.5	-	No discharge

* Special Frequency 1 means the collection of samples as soon as practicable after each discharge commences and in any case not more than 12 hours after each discharge commences.

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** Special Frequency 2 means collection of samples quarterly (in the event of flow during the quarter) at a time when there is flow and as soon as practicable after each wet weather discharge from points 9 and 10 commences and in any case not more than 12 hours after each discharge commences.

Table 3- Noise Monitoring (Noise limits apply)

EPL ID	Date	Start Time	Measurement Period	Measured Levels – dB(A)	Measured Levels – dB(A)	Limit	Wind speed/ direction	Compliant (Yes/No)	Comments
				Leq 15min Day	Leq 15min Evening				
13	03/06/2019	09:09	90min	I/A		35 dB(A) Leq (15 min)	3.3 – 4.1 m/s W/WSW	Y	
		19:44	30min		I/A		3.8- 4.8 m/s	Y	
	04/06/2019	10:10	90min	33			5.7 – 6.8 m/s S/SSW	Y	
		18:53	30min		I/A		3.9 – 4.2 m/s SSE	Y	
	05/06/2019	12:50	90min	35			6.4 – 7.2 m/s SE	Y	
		19:32	30min		I/A		1.7 - 2 m/s ESE	Y	
14	03/06/2019	11:23	90min	I/A		35 dB(A) Leq (15 min)	4.4 – 7.7 m/s W/WNW	Y	
		18:59	30min		I/A		3.3 – 3.4 m/s WSW	Y	
	04/06/2019	08:24	90min	35			3.1 – 5.7 m/s SW/SSW	Y	
		18:11	30min		I/A		3.6 – 3.8 m/s S/SSW	Y	
	05/06/2019	10:55	90min	I/A			5.2 – 6.4 m/s E/ESE	Y	
		18:51	30min		I/A		1.3 – 2.4 m/s	Y	
15	03/06/2019	09:02	90min	I/A		35 dB(A) Leq (15 min)	3 - 4.7 m/s W/WSW	Y	
		18:57	30min		I/A		3.2 – 3.6 m/s WSW	Y	
	04/06/2019	13:07	90min	I/A			5.5 – 7.2 m/s S/SSW	Y	
		18:16	30min		I/A		5.5 – 7.2 m/s S/SSW	Y	
16	05/06/2019	12:10	90min	I/A		6.2 – 6.8 m/s E/SE	Y		

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		20:12	30min		I/A	35 dB(A) Leq (15 min)	2.6 – 3.4 m/s SE	Y	
17	03/06/2019	13:28	90min	N/M		35 dB(A) Leq (15 min)	7.5 – 8.7 m/s	Y	
		20:08	30min		I/A		5 – 5.2 m/s WSW	Y	
	04/06/2019	11:01	90min	N/M			5.7 – 6.9 m/s S/SSW	Y	
		19:04	30min		I/A		5.7 – 6.9 m/s S/SSW	Y	
	05/06/2019	08:58	90min	35			3.5 - 5.8 m/s	Y	
		19:19	30min		I/A		3.5 - 5.8 m/s	Y	

Table 4 – Monitoring (Blasts – Limits Apply)

Location	Parameter	Units of Measure	Frequency	No. of Blasts for the Month	Average Value	Max or Only Value	100%ile Limit	(Potential) Non-compliance/breach
19	Blast Noise	dB (Lin Peak)	Every Blast	2	108.45	109.45		
	Blast Vibration	mm/s			0.58	1.07		
20	Blast Noise	dB (Lin Peak)	Every Blast	2	105.15	107.7		
	Blast Vibration	mm/s			0.49	0.90		
23	Blast Noise	dB (Lin Peak)	Every Blast	2	107.4	112.9		
	Blast Vibration	mm/s			0.68	1.16		
24	Blast Noise	dB (Lin Peak)	Every Blast	2	111.4	116		Exceeds 115dB for more than 5% of blasts
	Blast Vibration	mm/s			0.49	0.86		
26	Blast Noise	dB (Lin Peak)	Every Blast	2	109.7	111		
	Blast Vibration	mm/s			1.03	1.84		

Figure 1 – EPL 12957 Monitoring Locations

