



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: February 2019

Obtained Date: 22th March 2019

Publication Date: 22th March 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	16/11/18	18/12/18	-	-	-	1.5
2	Particulates-Deposited Matter	g/m ² /month	Continuous	1	16/11/18	18/12/18	-	-	-	1.2
4	Particulates-Deposited Matter	g/m ² /month	Continuous	1	16/11/18	18/12/18	-	-	-	1.5
5	Particulates-Deposited Matter	g/m ² /month	Continuous	1	16/11/18	18/12/18	-	-	-	2.1
6	Particulates-Deposited Matter	g/m ² /month	Continuous	1	16/11/18	18/12/18	-	-	-	2.0
7	PM ₁₀	µg/m ³	Every 6 days	5	Various	11/01/19	27.1	30.46	28.6	39.8
9	Conductivity	µS/cm	Special Frequency 1*	-	-	-	-	-	-	-
	Total organic carbon	mg/L					-	-	-	-
10	Conductivity	µS/cm		-	-	-	-	-	-	-

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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
	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) Leq 15min Day	Measured Levels – dB(A) Leq 15min Evening	Limit	Wind speed/ direction	Compliant (Yes/No)	Comments
13	26/02/2019	9:18	90min	I/A		35 dB(A) Leq (15 min)	E/ENE 3.3 m/s	Yes	Inaudible
		18:54	30min		I/A		E/ESE 1.9 m/s	Yes	Inaudible
	27/02/2019	7:09	90min	35			E/ESE 3.3 m/s	Yes	General mine activities 28-30 Haul Truck Engine Revs 34-47
		18:03	30min		I/A		E/ENE 5.3 m/s	Yes	Inaudible
	28/02/2019	9:05	90min	I/A			E/ENE 4.1 m/s	Yes	Inaudible
		18:49	30min		I/A		ESE 4.6 m/s	Yes	Inaudible
14	26/02/2019	07:25	90min	28		35 dB(A) Leq (15 min)	E/ENE, 4.1 m/s	Yes	Dozer operation 28-34
		19:34	30min		I/A		ESE. 1.5m/s	Yes	Inaudible
	27/02/2019	8:59	90min	N/M			E/ENE 3.5 m/s	Yes	General mine activities Barely Audible
		16:44	30min		I/A		E/ENE 7.5 m/s	Yes	Inaudible
	28/02/2019	7:26	90min	29			E/ENE 4.1 m/s	Yes	Dozer operation 30-33 General mine operations 28-32 Haul trucks 31-36
		19:28	30min		I/A		ESE 4.2 m/s	Yes	Inaudible
15	26/02/2019	11:49	90min	27		35 dB(A) Leq (15 min)	S/SSW 3.9 m/s	Yes	General mine activity 24-32
		19:52	30min		I/A		E 2 m/s	Yes	Inaudible
	27/02/2019	11:43	90min	30			W-NW 4.7 m/s	Yes	General mine activity 28-41
		19:30	30min		I/A		ENE 6 m/s	Yes	Inaudible
	28/02/2019	10:59	90min	I/A			N/NNE 4.2 m/s	Yes	General mine activity barely audible

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Location	Date	Time	Duration	Frequency	No. of Blasts	Average Value	Max or Only Value	100%ile Limit	(Potential) Non-compliance/breach	
16	26/02/2019	19:26	30min	I/A			ESE 4.5 m/s	Yes	Inaudible	
		11:27	90min	I/A			3.1 m/s N-SW	Yes	Not Measurable	
	27/02/2019	20:24	30min	I/A			2.1 m/s E/SE	Yes	Inaudible	
		11:06	90min	I/A			4.5 m/s	Yes	Inaudible	
		19:34	30min	I/A			6.8 m/s	Yes	Inaudible	
		07:16	90min	28			4.1 m/s E/ENE	Yes	General mine activity 27-30 Haul truck 29-31	
	28/02/2019	16:01	30min	I/A			5.2 m/s E/ESE	Yes	Inaudible	
		35 dB(A) Leq (15 min)								
17	26/02/2019	09:26	90min	I/A			3.7 m/s E/EWE	Yes	General Mine activity barely audible	
		19:05	30min	I/A			2.3 m/s ESE	Yes	Inaudible	
	27/02/2019	09:24	90min	I/A			4.2 m/s NE/ESE	Yes	General Mine activity barely audible	
		18:46	30min	I/A			7.5 m/s ENE	Yes	Inaudible	
	28/02/2019	08:50	90min	I/A			4.1 m/s E/ENE	Yes	Inaudible	
		18:44	30min	I/A			4.6 m/s ESE	Yes	Inaudible	
	35 dB(A) Leq (15 min)									

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	0				
	Blast Vibration	mm/s						
20	Blast Noise	dB (Lin Peak)	Every Blast	0				
	Blast Vibration	mm/s						
23	Blast Noise	dB (Lin Peak)	Every Blast	0				
	Blast Vibration	mm/s						
24	Blast Noise	dB (Lin Peak)	Every Blast	0				
	Blast Vibration	mm/s						
26	Blast Noise	dB (Lin Peak)	Every Blast	0				
	Blast Vibration	mm/s						

Figure 1 – EPL 12957 Monitoring Locations

