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 Coocooboonah Lane, GUNNEDAH NSW 2380
EPL Monitoring Points: See Figure 1 below
Sampling Period: January 2019
Obtained Date: 6th February 2019
Publication Date: 6th February 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	-	-	-	3.4
2	Particulates-Deposited Matter	g/m^2/month	Continuous	1	16/11/18	18/12/18	-	-	-	4.2
4	Particulates-Deposited Matter	g/m^2/month	Continuous	1	16/11/18	18/12/18	-	-	-	4.7
5	Particulates-Deposited Matter	g/m^2/month	Continuous	1	16/11/18	18/12/18	-	-	-	5.2
6	Particulates-Deposited Matter	g/m^2/month	Continuous	1	16/11/18	18/12/18	-	-	-	4.1
7	PM_{10}	µg/m^3	Every 6 days	5	Various	11/01/19	27.1	39.8	28.6	39.8
9	Conductivity	µS/cm	Special Frequency 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) $L_{eq\ 15min\ Day}$	Measured Levels – dB(A) $L_{eq\ 15min\ Evening}$	Limit	Wind speed/ direction	Compliant (Yes/No)	Comments
13			90min			35 dB(A) Leq (15 min)			
			30min						
			90min						
			30min						
			90min						
			30min						
14			90min			35 dB(A) Leq (15 min)			
			30min						
			90min						
			30min						
			90min						
			30min						
15			90min			35 dB(A) Leq (15 min)			
			30min						
			90min						
			30min						
			90min						
			30min						
16			90min						

			30min			35 dB(A) Leq (15 min)			
			90min						
			30min						
			90min						
			30min						
17			90min			35 dB(A) Leq (15 min)			
			30min						
			90min						
			30min						
			90min						
			30min						

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	98	106	120	No
	Blast Vibration	mm/s			0.425	0.54	10	No
20	Blast Noise	dB (Lin Peak)	Every Blast	2	96.05	103	120	No
	Blast Vibration	mm/s			0.69	0.74	10	No
23	Blast Noise	dB (Lin Peak)	Every Blast	2	109.55	114.2	120	No
	Blast Vibration	mm/s			0.91	1.55	10	No
24	Blast Noise	dB (Lin Peak)	Every Blast	2	105.9	111.6	120	No
	Blast Vibration	mm/s			0.49	0.55	10	No
26	Blast Noise	dB (Lin Peak)	Every Blast	2	97.1	102	120	No
	Blast Vibration	mm/s			1.37	1.85	10	No

Figure 1 – EPL 12957 Monitoring Locations