



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: December 2018

Obtained Date: 14th January 2019

Publication Date: 11th January 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	-	-	-	3.6
2	Particulates-Deposited Matter	g/m ² /month	Continuous	1	16/11/18	18/12/18	-	-	-	2.5
4	Particulates-Deposited Matter	g/m ² /month	Continuous	1	16/11/18	18/12/18	-	-	-	4.3
5	Particulates-Deposited Matter	g/m ² /month	Continuous	1	16/11/18	18/12/18	-	-	-	5.82
6	Particulates-Deposited Matter	g/m ² /month	Continuous	1	16/11/18	18/12/18	-	-	-	4.51
7	PM ₁₀	µg/m ³	Every 6 days	5	Various	11/01/19	27.8	38.74	35.3	45.5
9	Conductivity	µS/cm	Special Frequency 1*	-	-	-	-	-	-	-
	Total organic carbon	mg/L					-	-	-	-
10	Conductivity	µS/cm		-	-	-	-	-	-	-

SUNNYSIDE COAL MINE – MONTHLY MONITORING SUMMARY

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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.

SUNNYSIDE COAL MINE – MONTHLY MONITORING SUMMARY

** 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	10/12/2018	12:54	90min	I/A		35 dB(A) Leq (15 min)	2.7 m/s, NE/NW	Y	I/A = inaudible contribution from mine
		19:27	30min		I/A		2.7 m/s,	Y	
	11/12/2018	07:16	90min	32			6.5 m/s, SE/ESE	Y	Birds, wind, aircraft, resident
		18:54	30min		I/A		7.8 m/s, ESE	Y	Birds, traffic, animals
	12/12/2018	9:13	90min	I/A			2.6 m/s, NNW/NE	Y	
		18:24	30min		I/A		3.5 m/s, NNE/NE	Y	
14	10/12/2018	08:48	90min	I/A		35 dB(A) Leq (15 min)	4.8 m/s, WNW	Y	
		18:49	30min		I/A		4.8 m/s, NNE/ESE	Y	
	11/12/2018	07:26	90min	35			6.5 m/s, SE/ESE	Y	
		18:23	30min		I/A		8.3 m/s, ESE	Y	
	12/12/2018	11:58	90min	26			2.4 m/s, NW/SW	Y	
		18:27	30min		I/A		3.5 m/s, NE	Y	
15	10/12/2018	07:06	90min	I/A		35 dB(A) Leq (15 min)	5.8 m/s, W/WNW	Y	
		18:46	30min		I/A		4.8 m/s, NNW/ESE	Y	
	11/12/2018	09:01	90min	34			4.3 m/s, E/ESE	Y	
		19:31	30min		I/A		6.7 m/s, E/ESE	Y	

SUNNYSIDE COAL MINE – MONTHLY MONITORING SUMMARY

	12/12/2018	10:54	90min	I/A			1.7 m/s, NW/SW	Y	
		19:03	30min		I/A		3.7 m/s, NE	Y	
16	10/12/2018	10:50	90min	N/M		35 dB(A) Leq (15 min)	4.5 m/s, W/WNW	Y	N/M = Not measured
		20:14	30min		N/M		6.7 m/s, ENE	Y	
	11/12/2018	10:50	90min	I/A			4.7 m/s, E/ESE	Y	
		20:17	30min		I/A		4.9 m/s, ESE	Y	
	12/12/2018	07:22	90min	30			3.5 m/s, E/ENE	Y	
		19:49	30min		I/A		3.7 m/s, E/ENE	Y	
17	10/12/2018	12:48	90min	I/A		35 dB(A) Leq (15 min)	2.7 m/s, WSW/NW	Y	
		19:51	30min		I/A		5.7 m/s, ESE	Y	
	11/12/2018	09:44	90min	I/A			4.3 m/s, ESE	Y	
		20:07	30min		I/A		4.9 m/s, ESE	Y	
	12/12/2018	07:32	90min	32			3.5 m/s, ENE/NE	Y	
		20:07	30min		37		3.1 m/s, ENE/NE	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	104.7	107.1	120	No
	Blast Vibration	mm/s			0.36	0.48	10	No
20	Blast Noise	dB (Lin Peak)	Every Blast	2	97.75	103.6	120	No
	Blast Vibration	mm/s			0.35	0.36	10	No
23	Blast Noise	dB (Lin Peak)	Every Blast	2	101.85	107.2	120	No



SUNNYSIDE COAL MINE – MONTHLY MONITORING SUMMARY

	Blast Vibration	mm/s			0.53	0.71	10	No
24	Blast Noise	dB (Lin Peak)	Every Blast	2	104.25	112.5	120	No
	Blast Vibration	mm/s			0.34	0.43	10	No
26	Blast Noise	dB (Lin Peak)	Every Blast	2	102.2	103.8	120	No
	Blast Vibration	mm/s			0.91	1.03	10	No

Figure 1 – EPL 12957 Monitoring Locations

