



SUNNYSIDE COAL MINE – MONTHLY MONITORING SUMMARY

Site Information

EPL No: 12957

EPA Website Link: <http://www.environment.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=31541&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: September 2012

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Table 1 - No Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date(s) Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max Value
1	Particulates-Deposited Matter	g/m ² /month	Continuous	1	19/9/2012	28/9/2012	1.2	1.2	1.2	1.2
2	Particulates-Deposited Matter	g/m ² /month	Continuous	1	19/9/2012	28/9/2012	1.5	1.5	1.5	1.5
4	Particulates-Deposited Matter	g/m ² /month	Continuous	1	19/9/2012	28/9/2012	1.1	1.1	1.1	1.1
5	Particulates-Deposited Matter	g/m ² /month	Continuous	1	19/9/2012	28/9/2012	1.8	1.8	1.8	1.8
6	Particulates-Deposited Matter	g/m ² /month	Continuous	1	19/9/2012	28/9/2012	0.8	0.8	0.8	0.8
7	PM ₁₀	µg/m ³	Every 6 days	6	5,11,17,23,29/9/2012	16/10/2012	8.9	26.1	18.2	49.3
9	Conductivity	µS/cm	Special Frequency 1*	0	-	-	-	-	-	-
	Total organic carbon	mg/L		0	-	-	-	-	-	-
10	Conductivity	µS/cm	Special Frequency 1*	0	-	-	-	-	-	-
	Total organic carbon	mg/L		0	-	-	-	-	-	-



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EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date(s) Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max Value
11	TSS	mg/L	Special Frequency 2**	0	-	-	-	-	-	-
	Conductivity	µS/cm		0	-	-	-	-	-	-
	Oil & Grease	mg/L		0	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-
	Total organic carbon	mg/L								
12	TSS	mg/L	Special Frequency 2**	0	-	-	-	-	-	-
	Conductivity	µS/cm		0	-	-	-	-	-	-
	Oil & Grease	mg/L		0	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-
	Total organic carbon	mg/L								

* 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.

** 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 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

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Table 3 – 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
R2	-	-	-	-	-	35 dB(A) Leq (15 min)	-	-	No access to property
R4	17/9/2012	3:55pm	90min	25		35 dB(A) Leq (15 min)	3 m/s NW	Yes	
		7:30pm	30min		<20		0.5 m/s SE	Yes	
	18/9/2012	12:49pm	90min	<20			1.5 m/s NW	Yes	
		8:40pm	30min		Inaudible		1 m/s N	Yes	
	19/9/2012	2:08pm	90min	Inaudible			1.5 m/s, NW	Yes	
		6:26pm	30min		Inaudible		Calm	Yes	
R5	17/9/2012	12:25pm	90min	Inaudible		35 dB(A) Leq (15 min)	2 m/s NW	Yes	
		8:10pm	30min		21		Calm	Yes	
	18/9/2012	2:27pm	90min	Inaudible			1 m/s N	Yes	
		8:03pm	30min		Inaudible		1 m/s N	Yes	
	19/9/2012	12:34pm	90min	Inaudible			1.5 m/s NW	Yes	
		6:59pm	30min		<20		Calm	Yes	
R6	17/9/2012	2:02 pm	90min	22		35 dB(A) Leq (15 min)	1.5 m/s NW	Yes	
		6:48 pm	30min		21		0.5 m/s SE	Yes	
	18/9/2012	-	90min	-			3 m/s NW	-	Raining – no mining
		9:19 pm	30min		Inaudible		0.5 m/s N	Yes	
	19/9/2012	4:05 pm	90min	25			0.5 m/s NW	Yes	
		7:30 pm	30min		39		Calm	Yes	Private agreement in place

Note Sunnyside mine does not operate during night hours, hence no measurements are taken.



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Table 4 – Monitoring (Blasts – Limits Apply)

Location	Parameter	Units of Measure	Frequency	No. of Blasts for the Month	Average Value	Max Value	100%ile Limit	(Potential) Non-compliance /breach
R1	Blast Noise	dB (Lin Peak)	Every Blast	1	DNT	DNT	120	No
	Blast Vibration	mm/s			DNT	DNT	10	No
R2	Blast Noise	dB (Lin Peak)	Every Blast	1	104.9	104.9	120	No
	Blast Vibration	mm/s			0.79	0.79	10	No
R4	Blast Noise	dB (Lin Peak)	Every Blast	1	107.5	107.5	120	No
	Blast Vibration	mm/s			0.46	0.46	10	No
R6	Blast Noise	dB (Lin Peak)	Every Blast	1	111.2	111.2	120	No
	Blast Vibration	mm/s			1.08	1.08	10	No

DNT – Indicates the blast did not trigger a result at the monitor.



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Figure 1 – EPL 12957 Monitoring Locations

