



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: January 2013

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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	21/1/2013	30/1/2013	3.4	3.4	3.4	3.4
2	Particulates-Deposited Matter	g/m ² /month	Continuous	1	21/1/2013	30/1/2013	3.0	3.0	3.0	3.0
4	Particulates-Deposited Matter	g/m ² /month	Continuous	1	21/1/2013	30/1/2013	7.9	7.9	7.9	7.9
5	Particulates-Deposited Matter	g/m ² /month	Continuous	1	21/1/2013	30/1/2013	2.8	2.8	2.8	2.8
6	Particulates-Deposited Matter	g/m ² /month	Continuous	1	21/1/2013	30/1/2013	2.8	2.8	2.8	2.8
7	PM ₁₀	µg/m ³	Every 6 days	4	3,9,21,27/1/2013	13/2/2013	0.6	18	13.1	45.2
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		0	-	-	-	-	-	-
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		0	-	-	-	-	-	-

* 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)	Measured Levels – dB(A)	Limit	Wind speed/ direction	Compliant (Yes/No)	Comments
				L _{eq} 15min Day	L _{eq} 15min Evening				
R2	-	-	-	-	-	35 dB(A) Leq (15 min)	-	-	No monitoring
R4	-	-	90min	-		35 dB(A) Leq (15 min)	-	-	No monitoring
		-	30min		-		-	No monitoring	
	-	-	90min	-			-	-	No monitoring
		-	30min		-		-	No monitoring	
	-	-	90min	-			-	-	No monitoring
		-	30min		-		-	No monitoring	
R5	-	-	90min	-		35 dB(A) Leq (15 min)	-	-	No monitoring
		-	30min		-		-	No monitoring	
	-	-	90min	-			-	-	No monitoring
		-	30min		-		-	No monitoring	
	-	-	90min	-			-	-	No monitoring
		-	30min		-		-	No monitoring	
R6	-	-	90min	-		35 dB(A) Leq (15 min)	-	-	No monitoring
		-	30min		-		-	No monitoring	
	-	-	90min	-			-	-	No monitoring
		-	30min		-		-	No monitoring	
	-	-	90min	-			-	-	No monitoring
		-	30min		-		-	No monitoring	

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	0	-	-	120	No
	Blast Vibration	mm/s			-	-	10	No
R2	Blast Noise	dB (Lin Peak)	Every Blast	0	-	-	120	No
	Blast Vibration	mm/s			-	-	10	No
R4	Blast Noise	dB (Lin Peak)	Every Blast	0	-	-	120	No
	Blast Vibration	mm/s			-	-	10	No
R6	Blast Noise	dB (Lin Peak)	Every Blast	0	-	-	120	No
	Blast Vibration	mm/s			-	-	10	No

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

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Figure 1 – EPL 12957 Monitoring Locations

