



## 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> (Licence version 15-Jun-2012)

**Licensee:** Namoi Mining Pty Ltd

**Licensee Address:** Sunnyside Coal Project, 259 Coccoo boonah Lane, GUNNEDAH NSW 2380

**EPL Monitoring Points:** See Figure 1 below

**Sampling Period:** May 2012 (Licence version 20-Dec-2011)

**Publication Date:** 22<sup>nd</sup> June 2012 (re-published 9<sup>th</sup> September 2014)

**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 <sup>2</sup> /month	Continuous	1	18/5/2012	30/5/2012	1.6	1.6	1.6	1.6
2	Particulates-Deposited Matter	g/m <sup>2</sup> /month	Continuous	1	18/5/2012	30/5/2012	0.5	0.5	0.5	0.5
3	Particulates-Deposited Matter	g/m <sup>2</sup> /month	Continuous	1	18/5/2012	30/5/2012	0.5	0.5	0.5	0.5
4	Particulates-Deposited Matter	g/m <sup>2</sup> /month	Continuous	1	18/5/2012	30/5/2012	1.2	1.2	1.2	1.2
5	Particulates-Deposited Matter	g/m <sup>2</sup> /month	Continuous	1	18/5/2012	30/5/2012	0.7	0.7	0.7	0.7
6	Particulates-Deposited Matter	g/m <sup>2</sup> /month	Continuous	1	18/5/2012	30/5/2012	1.2	1.2	1.2	1.2
7	PM <sub>10</sub>	µg/m <sup>3</sup>	Continuous*	5	2,8,14,20,26/5/2012	8/6/2012	5.3	11.2	12.9	17.6
8	PM <sub>10</sub>	µg/m <sup>3</sup>	Continuous*	5	2,8,14,20,26/5/2012	8/6/2012	3.5	6.9	6.7	11.9
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	-	-	-	-	-	-

**SUNNYSIDE COAL MINE – MONTHLY MONITORING SUMMARY**

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	-	-	-	-	-	-

\* This frequency is an error; this licence has since been varied to a frequency of every 6 days.

\*\* 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



## SUNNYSIDE COAL MINE – MONTHLY MONITORING SUMMARY

Table 3 – Monitoring (Noise – Limits Apply)

EPL ID	Date	Start Time	Measurement Period	Measured Levels – dB(A) <small>L<sub>eq</sub> 15min Day</small>	Measured Levels – dB(A) <small>L<sub>eq</sub> 15min Evening</small>	Limit(s)	Weather	Compliant (Yes/No)	Comments
R2	29/5/2012	-	-	-	-	Day, Evening & Night~: 35	-	-	No access to property
R4	29/5/2012	4:23pm /8:08pm	Day/Evening	35	33	Day, Evening & Night~: 35	Wind 1m/s South and 2m/s South	Yes	
R5	29/5/2012	5:12pm/ 9:01pm	Day/Evening	35	37	Day, Evening & Night~: 35	Wind 1.5m/s South	Yes	Temperature inversion present
R6	29/5/2012	3:58pm/ 7:36pm	Day/Evening	Inaudible	Inaudible	Day, Evening & Night~: 35	Wind 2-3m/s South	Yes	

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



## SUNNYSIDE COAL MINE – MONTHLY MONITORING SUMMARY

**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	3	102.3	103.5	120	No
	Blast Vibration	mm/s	Every Blast	3	1.17	1.8	10	No
R2	Blast Noise	dB (Lin Peak)	Every Blast	3	102.9	107.0	120	No
	Blast Vibration	mm/s	Every Blast	3	0.77	1.06	10	No
R4	Blast Noise	dB (Lin Peak)	Every Blast	3	DNT	DNT	120	No
	Blast Vibration	mm/s	Every Blast	3	DNT	DNT	10	No
R6	Blast Noise	dB (Lin Peak)	Every Blast	3	107.7	107.9	120	No
	Blast Vibration	mm/s	Every Blast	3	0.98	1.07	10	No

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

**SUNNYSIDE COAL MINE – MONTHLY MONITORING SUMMARY**

Figure 1 – EPL 12957 Monitoring Locations

