



TARRAWONGA COAL MINE – MONTHLY MONITORING SUMMARY

Site Information

EPL No: 12365

EPA Website Link: <http://www.environment.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=30902&SYSUID=1&LICID=12365>

Licensee: Tarrawonga Coal Pty Ltd

Licensee Address: Tarrawonga Coal Mine, 469 Goonbri Road, BOGGABRI NSW 2382

EPL Monitoring Points: See Figure 1 below

Sampling Period: April 2012

Publication Date: 21st June 2012. Updated 9th July 2012 to exclude real time continuous monitoring data, as per EPA advice. Real time monitoring is used for ambient monitoring purposes rather than compliance monitoring. (Re-published 23rd October 2012).

Table 1 - No Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
1	Conductivity	ms/cm	Upon discharge	0						
2	Conductivity	ms/cm	Upon discharge	0						
3	Conductivity	ms/cm	Upon discharge	0						
4	Conductivity	ms/cm	Upon discharge	No longer exists						
5	TSS	mg/L	Upon discharge	0						
	Conductivity	ms/cm		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
6	TSS	mg/L	Upon discharge	0						
	Conductivity	ms/cm		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
7	TSS	mg/L	Upon	0						



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EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
	Conductivity	ms/cm	discharge	0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
8	TSS	mg/L	Upon discharge	0						
	Conductivity	ms/cm		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
24	Conductivity	ms/cm	Upon discharge	0						
25	Conductivity	ms/cm	Upon discharge	0						
26	Conductivity	ms/cm	Upon discharge	0						
27	Conductivity	ms/cm	Upon discharge	0						

TARRAWONGA COAL MINE – MONTHLY MONITORING SUMMARY
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 or Only Value	100%ile Limit	Exceedance (Yes/No)	Comments
1	TSS	mg/L	Upon discharge	0					50		
	Oil & Grease	mg/L		0					10		
	pH	pH		0					6.5-8.5		
2	TSS	mg/L	Upon discharge	0					50		
	Oil & Grease	mg/L		0					10		
	pH	pH		0					6.5-8.5		
3	TSS	mg/L	Upon discharge	0					50		
	Oil & Grease	mg/L		0					10		
	pH	pH		0					6.5-8.5		
4	TSS	mg/L	Upon discharge	No longer exists							
	Oil & Grease	mg/L									
	pH	pH									
24	TSS	mg/L	Upon discharge	0					50		
	Oil & Grease	mg/L		0					10		
	pH	pH		0					6.5-8.5		
25	TSS	mg/L	Upon discharge	0					50		
	Oil & Grease	mg/L		0					10		
	pH	pH		0					6.5-8.5		
26	TSS	mg/L	Upon discharge	0					50		
	Oil & Grease	mg/L		0					10		
	pH	pH		0					6.5-8.5		
27	TSS	mg/L	Upon discharge	0					50		
	Oil & Grease	mg/L		0					10		
	pH	pH		0					6.5-8.5		

TARRAWONGA COAL MINE – MONTHLY MONITORING SUMMARY
Table 3 – Monitoring (Quarterly & 6 Monthly – No Limits apply)

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Period	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max Value
9	Conductivity	ms/cm	6 monthly	0						
	Lead	mg/L		0						
	pH	pH		0						
	Standing Water Level	metres		0						
10	Conductivity	ms/cm	6 monthly	0						
	Lead	mg/L		0						
	pH	pH		0						
	Standing Water Level	metres		0						
11	Conductivity	ms/cm	6 monthly	0						
	Lead	mg/L		0						
	pH	pH		0						
	Standing Water Level	metres		0						
12	Conductivity	ms/cm	6 monthly	0						
	Lead	mg/L		0						
	pH	pH		0						
	Standing Water Level	metres		0						
13	Conductivity	ms/cm	Quarterly	0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						

TARRAWONGA COAL MINE – MONTHLY MONITORING SUMMARY
Table 4 – Monitoring (Noise – Limits Apply)

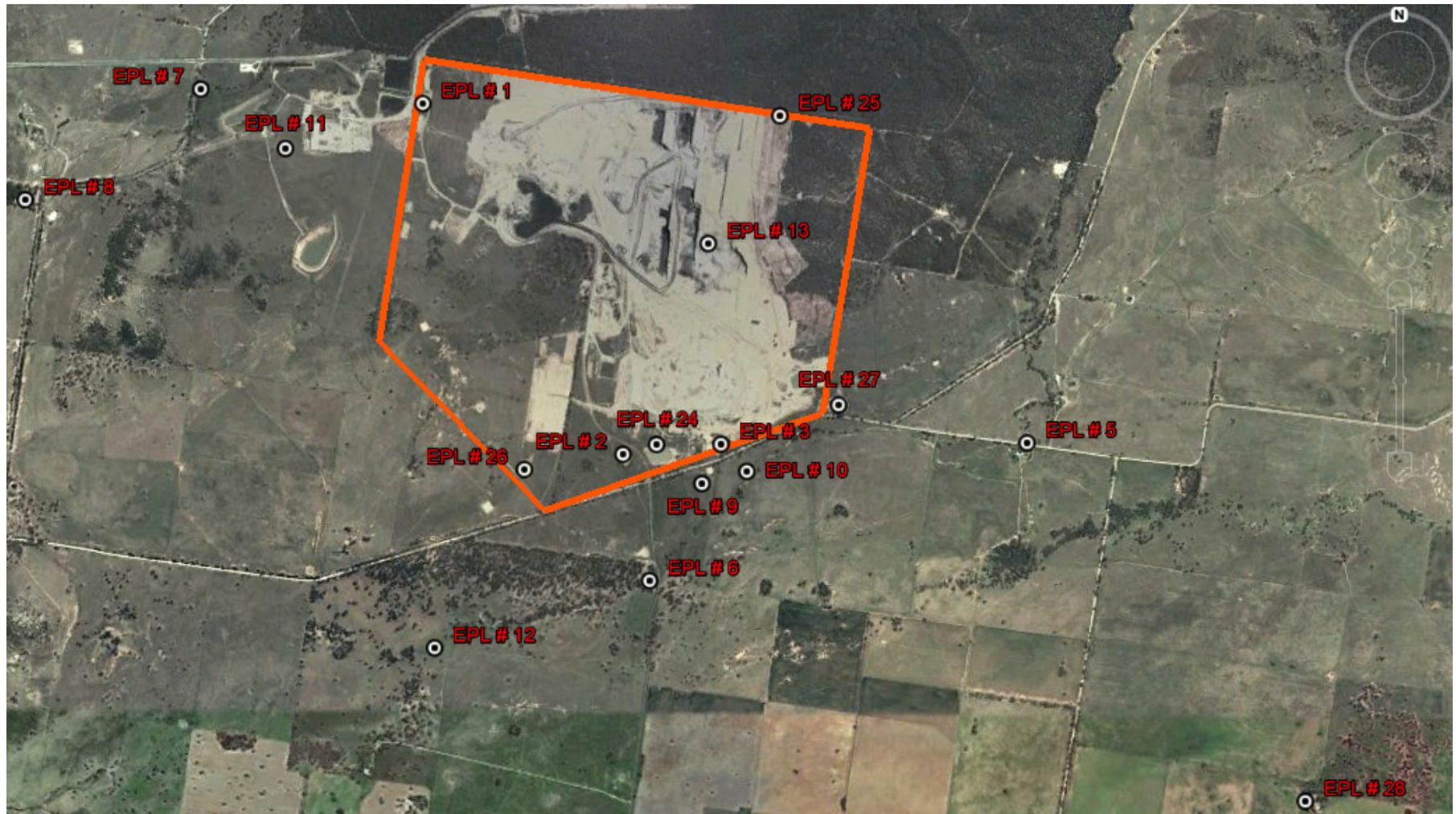
EPL ID	Date	Start Time	Measurement Period	Measured Levels – dB(A) <small>L_{eq} 15min Day</small>	Measured Levels – dB(A) <small>L_{eq} 15min Evening</small>	Measured Levels – dB(A) <small>L_{eq} 15min Night</small>	Measured Levels – dB(A) <small>L_{A1} (1 min) Night</small>	Limit(s)	Weather	Compliant (Yes/No)	Comments
N1								<u>Day, Evening & Night:</u> Kyalla – 37 All other - 35 <u>Night</u> <u>L_{A1} (1 min):</u> All - 45			No monitoring required for this period

Table 5 – 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
Tarrawonga	Blast Noise	dB (Lin Peak)	Every Blast	4	104	105.5	120	No
	Blast Vibration	mm/s	Every Blast	4	1.6	2.2	10	No
Templemore	Blast Noise	dB (Lin Peak)	Every Blast	4	98.3	106.3	120	No
	Blast Vibration	mm/s	Every Blast	4	1.2	2.7	10	No

TARRAWONGA COAL MINE – MONTHLY MONITORING SUMMARY

Figure 1 – EPL 12365 Monitoring Locations



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Licensee: Tarrawonga Coal Pty Ltd

Licensee Address: Tarrawonga Coal Mine, 469 Goonbri Road, BOGGABRI NSW 2382

EPL Monitoring Points: See Figure 1 below

Sampling Period: May 2012

Publication Date: 21st June 2012. Updated 9th July 2012 to exclude real time continuous monitoring data, as per EPA advice. Real time monitoring is used for ambient monitoring purposes rather than compliance monitoring. (Re-published 23rd October 2012).

Table 1 - No Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
1	Conductivity	ms/cm	Upon discharge	0						
2	Conductivity	ms/cm	Upon discharge	0						
3	Conductivity	ms/cm	Upon discharge	0						
4	Conductivity	ms/cm	Upon discharge	No longer exists						
5	TSS	mg/L	Upon discharge	0						
	Conductivity	ms/cm		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
6	TSS	mg/L	Upon discharge	0						
	Conductivity	ms/cm		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
7	TSS	mg/L	Upon	0						

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EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
	Conductivity	ms/cm	discharge	0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
8	TSS	mg/L	Upon discharge	0						
	Conductivity	ms/cm		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
24	Conductivity	ms/cm	Upon discharge	0						
25	Conductivity	ms/cm	Upon discharge	0						
26	Conductivity	ms/cm	Upon discharge	0						
27	Conductivity	ms/cm	Upon discharge	0						



TARRAWONGA COAL MINE – MONTHLY MONITORING SUMMARY

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 or Only Value	100%ile Limit	Exceedance (Yes/No)	Comments
1	TSS	mg/L	Upon discharge	0					50		
	Oil & Grease	mg/L		0					10		
	pH	pH		0					6.5-8.5		
2	TSS	mg/L	Upon discharge	0					50		
	Oil & Grease	mg/L		0					10		
	pH	pH		0					6.5-8.5		
3	TSS	mg/L	Upon discharge	0					50		
	Oil & Grease	mg/L		0					10		
	pH	pH		0					6.5-8.5		
4 (No longer exists)	TSS	mg/L	Upon discharge						50		
	Oil & Grease	mg/L							10		
	pH	pH							6.5-8.5		
24	TSS	mg/L	Upon discharge	0					50		
	Oil & Grease	mg/L		0					10		
	pH	pH		0					6.5-8.5		
25	TSS	mg/L	Upon discharge	0					50		
	Oil & Grease	mg/L		0					10		
	pH	pH		0					6.5-8.5		
26	TSS	mg/L	Upon discharge	0					50		
	Oil & Grease	mg/L		0					10		
	pH	pH		0					6.5-8.5		
27	TSS	mg/L	Upon discharge	0					50		
	Oil & Grease	mg/L		0					10		
	pH	pH		0					6.5-8.5		

TARRAWONGA COAL MINE – MONTHLY MONITORING SUMMARY
Table 3 – Monitoring (Quarterly & 6 Monthly – No Limits apply)

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Period	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max Value
9	Conductivity	ms/cm	6 monthly	0						
	Lead	mg/L		0						
	pH	pH		0						
	Standing Water Level	metres		0						
10	Conductivity	ms/cm	6 monthly	0						
	Lead	mg/L		0						
	pH	pH		0						
	Standing Water Level	metres		0						
11	Conductivity	ms/cm	6 monthly	0						
	Lead	mg/L		0						
	pH	pH		0						
	Standing Water Level	metres		0						
12	Conductivity	ms/cm	6 monthly	0						
	Lead	mg/L		0						
	pH	pH		0						
	Standing Water Level	metres		0						
13	Conductivity	ms/cm	Quarterly	0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						

TARRAWONGA COAL MINE – MONTHLY MONITORING SUMMARY
Table 4 – Monitoring (Noise – Limits Apply)

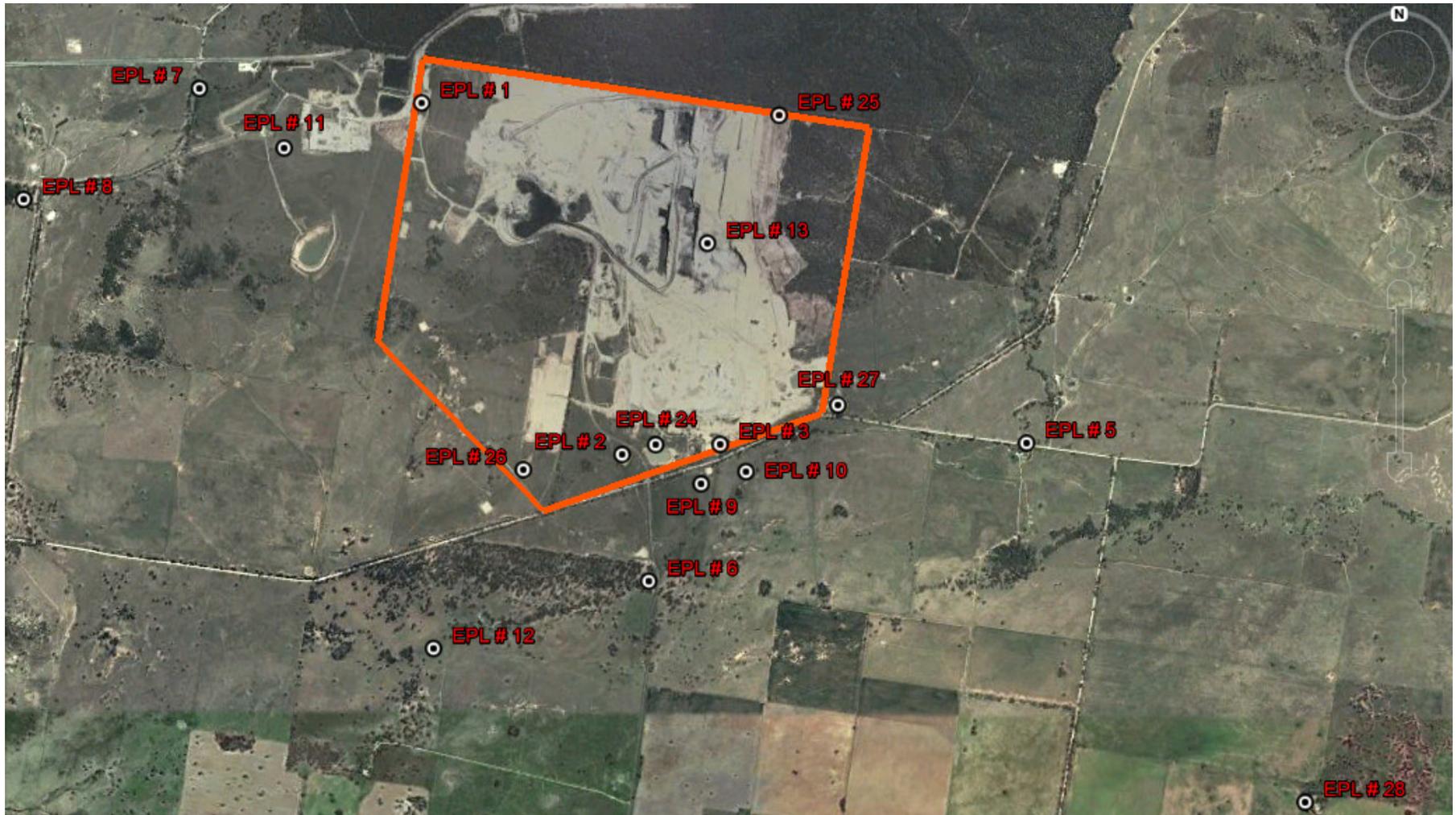
EPL ID	Date	Start Time	Measurement Period	Measured Levels – dB(A) <small>L_{eq} 15min Day</small>	Measured Levels – dB(A) <small>L_{eq} 15min Evening</small>	Measured Levels – dB(A) <small>L_{eq} 15min Night</small>	Measured Levels – dB(A) <small>L_{A1} (1 min) Night</small>	Limit(s)	Weather	Compliant (Yes/No)	Comments
N1								<u>Day, Evening & Night:</u> Kyalla – 37 All other - 35 <u>Night</u> <u>L_{A1} (1 min):</u> All - 45			No monitoring required for this period

Table 5 – 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
Tarrawonga	Blast Noise	dB (Lin Peak)	Every Blast	7	108.6	108.6	120	NO
	Blast Vibration	mm/s	Every Blast	7	1.4	1.4	10	NO
Templemore	Blast Noise	dB (Lin Peak)	Every Blast	7	109	113.1	120	NO
	Blast Vibration	mm/s	Every Blast	7	1.4	1.8	10	NO

TARRAWONGA COAL MINE – MONTHLY MONITORING SUMMARY

Figure 1 – EPL 12365 Monitoring Locations





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Licensee: Tarrawonga Coal Pty Ltd

Licensee Address: Tarrawonga Coal Mine, 469 Goonbri Road, BOGGABRI NSW 2382

EPL Monitoring Points: See Figure 1 below

Sampling Period: June 2012

Publication Date: 24th July 2012 (re-published 23rd October 2012)

Table 1 - No Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
1	Conductivity	ms/cm	Upon discharge	0						
2	Conductivity	ms/cm	Upon discharge	0						
3	Conductivity	ms/cm	Upon discharge	0						
4	Conductivity	ms/cm	Upon discharge	No longer exists						
5	TSS	mg/L	Upon discharge	0						
	Conductivity	ms/cm		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
6	TSS	mg/L	Upon discharge	0						
	Conductivity	ms/cm		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
7	TSS	mg/L	Upon	0						



EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
	Conductivity	ms/cm	discharge	0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
8	TSS	mg/L	Upon discharge	0						
	Conductivity	ms/cm		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
24	Conductivity	ms/cm	Upon discharge	0						
25	Conductivity	ms/cm	Upon discharge	0						
26	Conductivity	ms/cm	Upon discharge	0						
27	Conductivity	ms/cm	Upon discharge	0						



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 or Only Value	100%ile Limit	Exceedance (Yes/No)	Comments
1	TSS	mg/L	Upon discharge	0					50		
	Oil & Grease	mg/L		0					10		
	pH	pH		0					6.5-8.5		
2	TSS	mg/L	Upon discharge	0					50		
	Oil & Grease	mg/L		0					10		
	pH	pH		0					6.5-8.5		
3	TSS	mg/L	Upon discharge	0					50		
	Oil & Grease	mg/L		0					10		
	pH	pH		0					6.5-8.5		
4 (No longer exists)	TSS	mg/L	Upon discharge						50		
	Oil & Grease	mg/L							10		
	pH	pH							6.5-8.5		
24	TSS	mg/L	Upon discharge	0					50		
	Oil & Grease	mg/L		0					10		
	pH	pH		0					6.5-8.5		
25	TSS	mg/L	Upon discharge	0					50		
	Oil & Grease	mg/L		0					10		
	pH	pH		0					6.5-8.5		
26	TSS	mg/L	Upon discharge	0					50		
	Oil & Grease	mg/L		0					10		
	pH	pH		0					6.5-8.5		
27	TSS	mg/L	Upon discharge	0					50		
	Oil & Grease	mg/L		0					10		
	pH	pH		0					6.5-8.5		

Table 3 – Monitoring (Quarterly & 6 Monthly – No Limits apply)

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Period	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max Value
9	Conductivity	ms/cm	6 monthly	0						
	Lead	mg/L		0						
	pH	pH		0						
	Standing Water Level	metres		0						
10	Conductivity	ms/cm	6 monthly	0						
	Lead	mg/L		0						
	pH	pH		0						
	Standing Water Level	metres		0						
11	Conductivity	ms/cm	6 monthly	0						
	Lead	mg/L		0						
	pH	pH		0						
	Standing Water Level	metres		0						
12	Conductivity	ms/cm	6 monthly	0						
	Lead	mg/L		0						
	pH	pH		0						
	Standing Water Level	metres		0						
13	Conductivity	ms/cm	Quarterly	0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						

Table 4 – 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	Measured Levels – dB(A) L _{eq} 15min Night	Measured Levels – dB(A) L _{A1} (1 min) Night	Limit	Weather	Compliant (Yes/No)	Comments
Tarrowonga	25/6	1.30 pm	15 min	31				35	1.5 m/s WNW wind	Yes	Privately owned – Landholder advised of acquisition rights
	25/6	9.29 pm	15 min		23			35	Calm	Yes	
	25/6	10.20 pm	15 min			25		35	Calm	Yes	
	25/6	10.20 pm	1 min				40	45	Calm	Yes	
	26/6	2.09 pm	15 min	35				35	1 m/s SE wind	Yes	
	26/6	7.50 pm	15 min		38			35	Calm	No	
	27/6	1.22 am	15 min			37		35	Calm	No	
	27/6	1.22 am	1 min				46	45	Calm	No	
	27/6	3.52 pm	15 min	32				35	Calm	Yes	
	27/6	9.04 pm	15 min		38			35	Calm	No	
	28/6	1.47 am	15 min			37		35	Calm	No	
	28/6	1.47 am	1 min				43	45	Calm	Yes	
Pine Grove	26/6	8.33 am	15 min	43 Note: Trucks on private section of haul road (43)				50	0.5 m/s SE wind	Yes	Mine Owned property

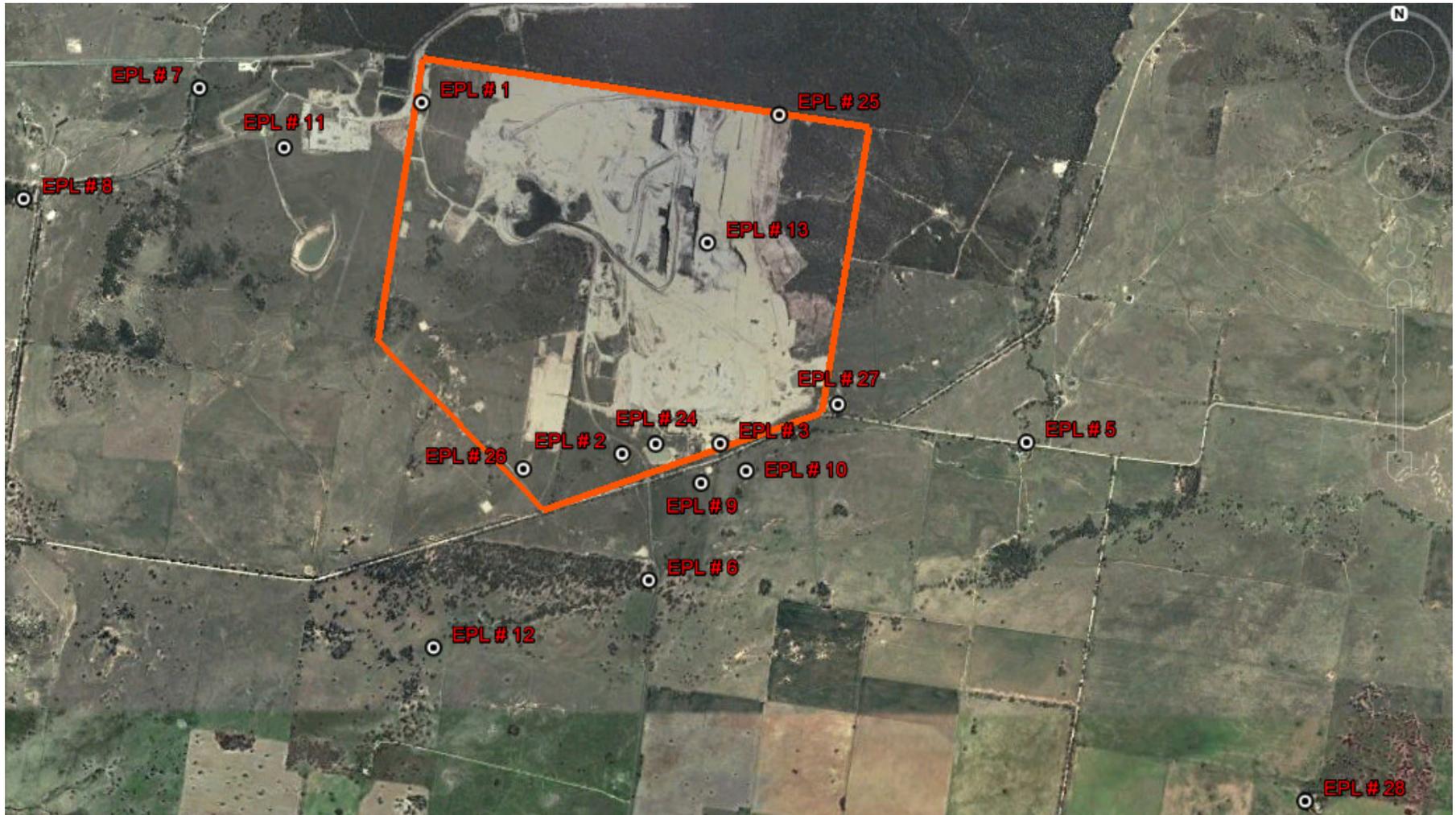
Bollol Creek Station	26/6	12.20 pm	15 min	30				35	2m/s SE wind	Yes	Mine owned property
	26/6	7.10 pm	15 min		27			35	1m/s S wind	Yes	
	27/6	12.16 am	15 min			33		35	Calm	Yes	
	27/6	12.16 am	1 min				40	45	Calm	Yes	
Ambardo	26/6	8.02 am	15 min	40 Note: Trucks on private section of haul road (40), mine noise (<30)				45	0.5 m/s SE wind	Yes	Mine owned property
	26/6	7.26 pm	15 min		38 Note: Trucks on private section of haul road (38), mine noise (<30)			45	0.5 m/s S	Yes	
	26/6	10.43 pm	15 min			36		45	Calm	Yes	
	26/6	10.43 pm	1 min				43	45	Calm	Yes	

Note: Measured levels refer to noise attributable to Tarrawonga Coal Mine

Table 5 – 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
Tarrawonga	Blast Noise	dB (Lin Peak)	Every Blast	4	98.7	98.7	120	No
	Blast Vibration	mm/s	Every Blast	4	0.73	0.73	10	No
Templemore	Blast Noise	dB (Lin Peak)	Every Blast	4	105	107.9	120	No
	Blast Vibration	mm/s	Every Blast	4	0.53	0.70	10	No

Figure 1 – EPL 12365 Monitoring Locations



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EPL Monitoring Points: See Figure 1 below

Sampling Period: July 2012

Publication Date: 21st August 2012 (re-published 23rd October 2012)

Table 1 - No Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value	
1	Conductivity	ms/cm	Upon discharge	0							
2	Conductivity	ms/cm	Upon discharge	1	12/7/12	23/7/12				127	
3	Conductivity	ms/cm	Upon discharge	1	12/7/12	23/7/12				448	
4	Conductivity	ms/cm	Upon discharge	No longer exists							
5	TSS	mg/L	Upon discharge	0							
	Conductivity	ms/cm		0							
	Oil & Grease	mg/L		0							
	pH	pH		0							
6	TSS	mg/L	Upon discharge	1	12/7/12	23/7/12				122	
	Conductivity	ms/cm		1	12/7/12	23/7/12				147	
	Oil & Grease	mg/L		1	12/7/12	23/7/12				<5	
	pH	pH		1	12/7/12	23/7/12				7.20	

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
7	TSS	mg/L	Upon discharge	0						
	Conductivity	ms/cm		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
8	TSS	mg/L	Upon discharge	0						
	Conductivity	ms/cm		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
24	Conductivity	ms/cm	Upon discharge	0						
25	Conductivity	ms/cm	Upon discharge	0						
26	Conductivity	ms/cm	Upon discharge	1	12/7/12	23/7/12				234
27	Conductivity	ms/cm	Upon discharge	0						

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
1	TSS	mg/L	Upon discharge	0					50		
	Oil & Grease	mg/L		0					10		
	pH	pH		0					6.5-8.5		
2	TSS	mg/L	Upon discharge	1	12/7/12	23/7/12	37	37	50	No	
	Oil & Grease	mg/L		1	12/7/12	23/7/12	<5	<5	10	No	
	pH	pH		1	12/7/12	23/7/12	7.6	7.6	6.5-8.5	No	
3	TSS	mg/L	Upon discharge	1	12/7/12	23/7/12	932	932	50	No*	43.8 mm in the preceding 5 days
	Oil & Grease	mg/L		1	12/7/12	23/7/12	<5	<5	10	No	
	pH	pH		1	12/7/12	23/7/12	8.07	8.07	6.5-8.5	No	
4 (No longer exists)	TSS	mg/L	Upon discharge						50		
	Oil & Grease	mg/L							10		
	pH	pH							6.5-8.5		
24	TSS	mg/L	Upon discharge	0					50		
	Oil & Grease	mg/L		0					10		
	pH	pH		0					6.5-8.5		
25	TSS	mg/L	Upon discharge	0					50		
	Oil & Grease	mg/L		0					10		
	pH	pH		0					6.5-8.5		
26	TSS	mg/L	Upon discharge	0	12/7/12	23/7/12	910	910	50	No*	43.8 mm in the preceding 5 days
	Oil & Grease	mg/L		0	12/7/12	23/7/12	<5	<5	10	No	
	pH	pH		0	12/7/12	23/7/12	7.86	7.86	6.5-8.5	No	
27	TSS	mg/L	Upon discharge	0					50		
	Oil & Grease	mg/L		0					10		
	pH	pH		0					6.5-8.5		

**The elevated TSS results are not exceedances as the rainfall event exceeded 38.4mm in the preceding 5 days (see EPL 12365, Condition L2.5)

Table 3 – Monitoring (Quarterly & 6 Monthly – No Limits apply)

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Period	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max Value
9	Conductivity	ms/cm	6 monthly	0						
	Lead	mg/L		0						
	pH	pH		0						
	Standing Water Level	metres		0						
10	Conductivity	ms/cm	6 monthly	0						
	Lead	mg/L		0						
	pH	pH		0						
	Standing Water Level	metres		0						
11	Conductivity	ms/cm	6 monthly	0						
	Lead	mg/L		0						
	pH	pH		0						
	Standing Water Level	metres		0						
12	Conductivity	ms/cm	6 monthly	0						
	Lead	mg/L		0						
	pH	pH		0						
	Standing Water Level	metres		0						
13	Conductivity	ms/cm	Quarterly	0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						

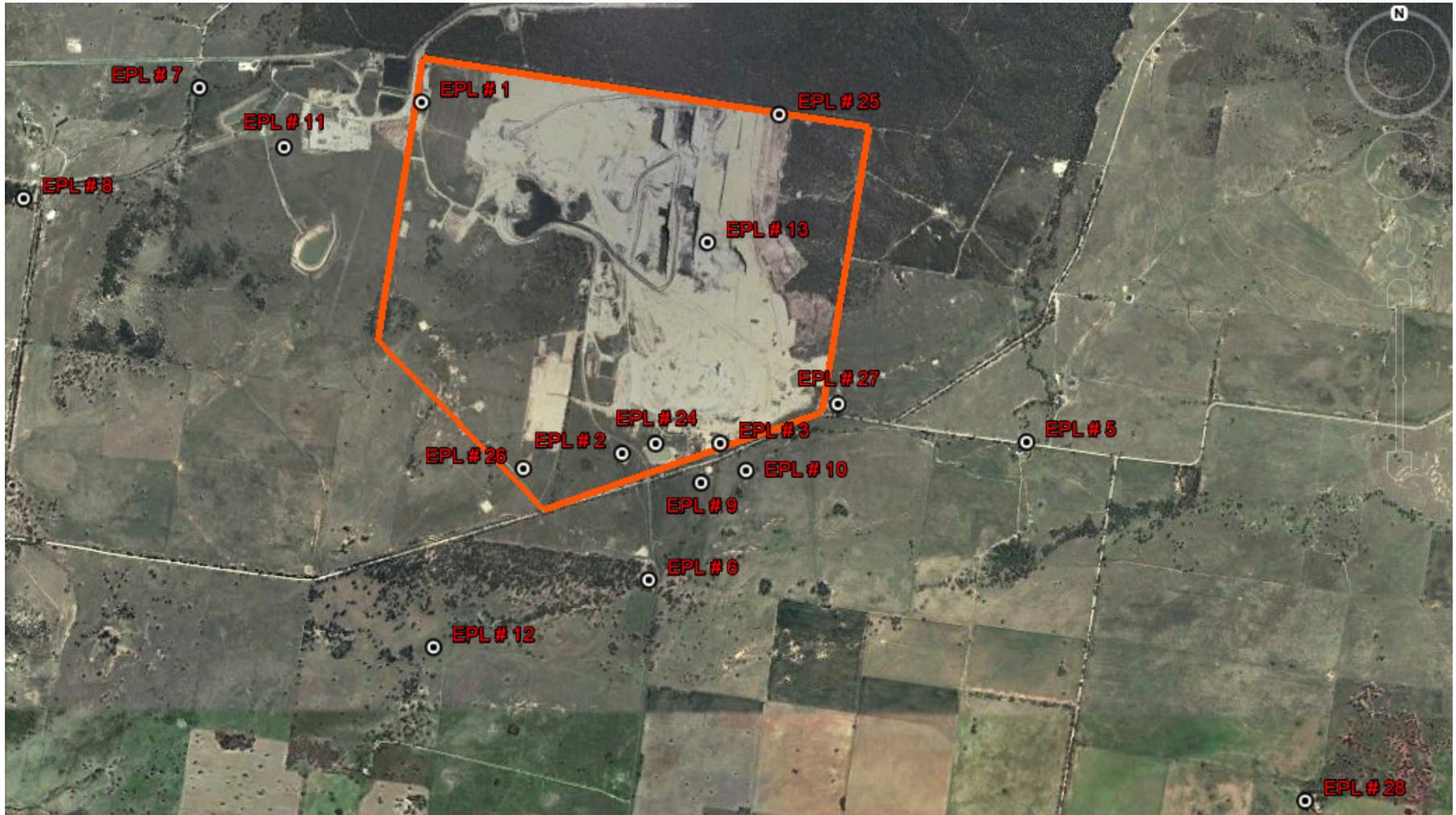
Table 4 – Monitoring (Noise – Limits Apply)

EPL ID	Date	Start Time	Measurement period	Measured Levels – dB(A) <small>L_{eq} 15min Day</small>	Measured Levels – dB(A) <small>L_{eq} 15min Evening</small>	Measured Levels – dB(A) <small>L_{eq} 15min Night</small>	Measured Levels – dB(A) <small>L_{A1} (1 min) Night</small>	Limit	Weather	Compliant (Yes/No)	Comments
N1											No monitoring this month
											No monitoring this month
											No monitoring this month
											No monitoring this month

Table 5 – 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
Tarrawonga	Blast Noise	dB (Lin Peak)	Every Blast	5	109	113.4	120	No
	Blast Vibration	mm/s	Every Blast	5	0.31	0.47	10	No
Templemore	Blast Noise	dB (Lin Peak)	Every Blast	5	104	109.2	120	No
	Blast Vibration	mm/s	Every Blast	5	0.95	1.7	10	No

Figure 1 – EPL 12365 Monitoring Locations





TARRAWONGA COAL MINE – MONTHLY MONITORING SUMMARY

Site Information

EPL No: 12365

EPA Website Link: <http://www.environment.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=30902&SYSUID=1&LICID=12365>

Licensee: Tarrawonga Coal Pty Ltd

Licensee Address: Tarrawonga Coal Mine, 469 Goonbri Road, BOGGABRI NSW 2382

EPL Monitoring Points: See Figure 1 below

Sampling Period: August 2012

Publication Date: 12th September 2012 (re-published 23rd October 2012)

Table 1 - No Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
1	Conductivity	ms/cm	Upon discharge	0						
2	Conductivity	ms/cm	Upon discharge	0						
3	Conductivity	ms/cm	Upon discharge	0						
4	Conductivity	ms/cm	Upon discharge	No longer exists						
5	TSS	mg/L	Upon discharge	0						
	Conductivity	ms/cm		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
6	TSS	mg/L	Upon discharge	0						
	Conductivity	ms/cm		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
7	TSS	mg/L	Upon	0						

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
	Conductivity	ms/cm	discharge	0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
8	TSS	mg/L	Upon discharge	0						
	Conductivity	ms/cm		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
24	Conductivity	ms/cm	Upon discharge	0						
25	Conductivity	ms/cm	Upon discharge	0						
26	Conductivity	ms/cm	Upon discharge	0						
27	Conductivity	ms/cm	Upon discharge	0						



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 or Only Value	100%ile Limit	Exceedance (Yes/No)	Comments
1	TSS	mg/L	Upon discharge	0					50		
	Oil & Grease	mg/L		0					10		
	pH	pH		0					6.5-8.5		
2	TSS	mg/L	Upon discharge	0					50		
	Oil & Grease	mg/L		0					10		
	pH	pH		0					6.5-8.5		
3	TSS	mg/L	Upon discharge	0					50		
	Oil & Grease	mg/L		0					10		
	pH	pH		0					6.5-8.5		
4 (No longer exists)	TSS	mg/L	Upon discharge						50		
	Oil & Grease	mg/L							10		
	pH	pH							6.5-8.5		
24	TSS	mg/L	Upon discharge	0					50		
	Oil & Grease	mg/L		0					10		
	pH	pH		0					6.5-8.5		
25	TSS	mg/L	Upon discharge	0					50		
	Oil & Grease	mg/L		0					10		
	pH	pH		0					6.5-8.5		
26	TSS	mg/L	Upon discharge	0					50		
	Oil & Grease	mg/L		0					10		
	pH	pH		0					6.5-8.5		
27	TSS	mg/L	Upon discharge	0					50		
	Oil & Grease	mg/L		0					10		
	pH	pH		0					6.5-8.5		

Table 3 – Monitoring (Quarterly & 6 Monthly – No Limits apply)

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Period	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max Value
9	Conductivity	ms/cm	6 monthly	0						
	Lead	mg/L		0						
	pH	pH		0						
	Standing Water Level	metres		0						
10	Conductivity	ms/cm	6 monthly	0						
	Lead	mg/L		0						
	pH	pH		0						
	Standing Water Level	metres		0						
11	Conductivity	ms/cm	6 monthly	0						
	Lead	mg/L		0						
	pH	pH		0						
	Standing Water Level	metres		0						
12	Conductivity	ms/cm	6 monthly	0						
	Lead	mg/L		0						
	pH	pH		0						
	Standing Water Level	metres		0						
13	Conductivity	ms/cm	Quarterly	0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						

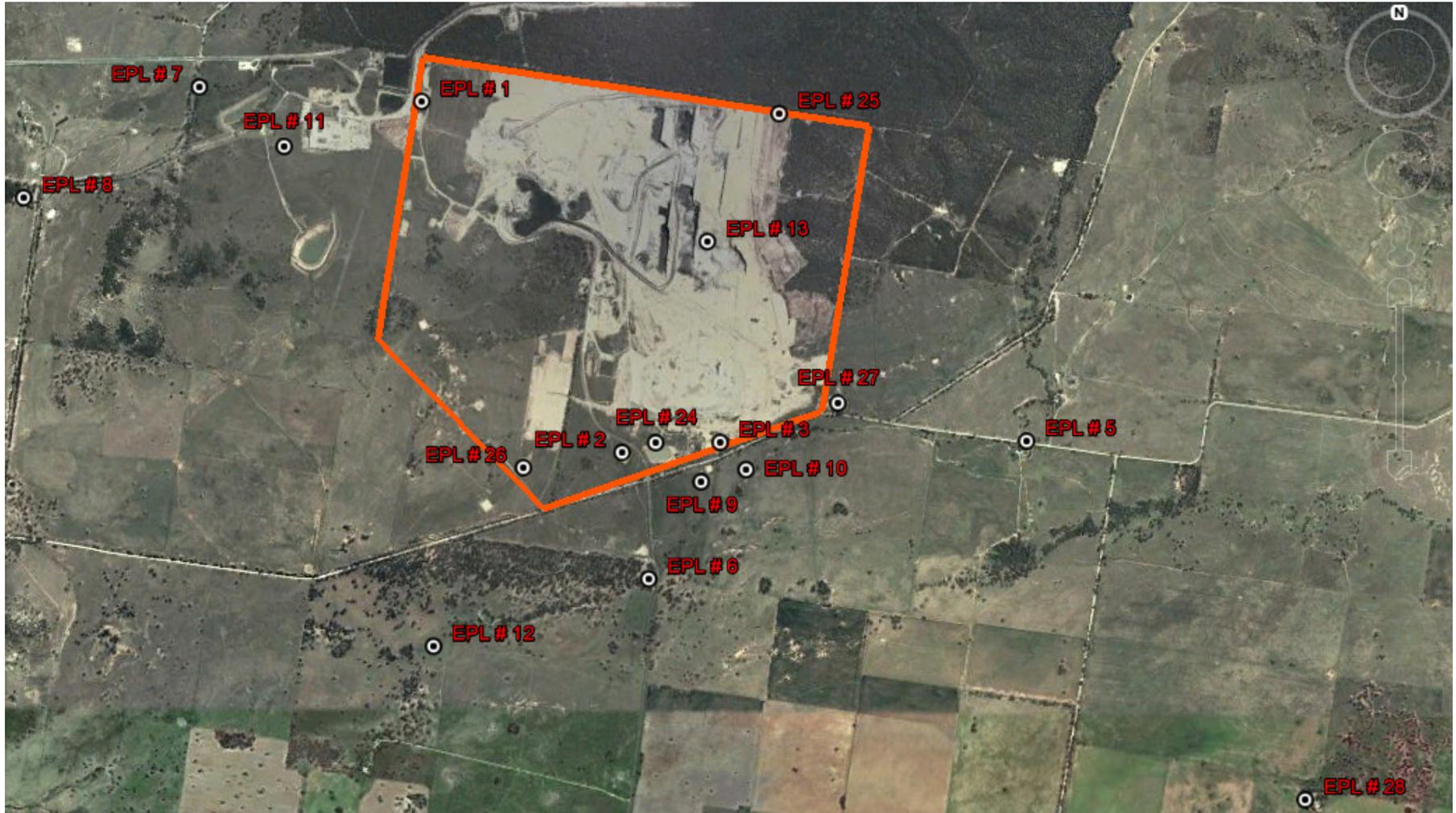
Table 4 – Monitoring (Noise – Limits Apply)

EPL ID	Date	Start Time	Measurement period	Measured Levels – dB(A) L _{eq} 15min Day	Measured Levels – dB(A) L _{eq} 15min Evening	Measured Levels – dB(A) L _{eq} 15min Night	Measured Levels – dB(A) L _{A1} (1 min) Night	Limit	Weather	Compliant (Yes/No)	Comments
N1											No monitoring this month
											No monitoring this month
											No monitoring this month
											No monitoring this month

Table 5 – 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
Tarrawonga	Blast Noise	dB (Lin Peak)	Every Blast	8	97.4	97.4	120	No
	Blast Vibration	mm/s	Every Blast	8	0.45	0.45	10	No
Templemore	Blast Noise	dB (Lin Peak)	Every Blast	8	104.5	114.3	120	No
	Blast Vibration	mm/s	Every Blast	8	1.1	2.6	10	No

Figure 1 – EPL 12365 Monitoring Locations



TARRAWONGA COAL MINE – MONTHLY MONITORING SUMMARY

Site Information

EPL No: 12365

EPA Website Link: <http://www.environment.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=30902&SYSUID=1&LICID=12365>

Licensee: Tarrawonga Coal Pty Ltd

Licensee Address: Tarrawonga Coal Mine, 469 Goonbri Road, BOGGABRI NSW 2382

EPL Monitoring Points: See Figure 1 below

Sampling Period: September 2012

Publication Date: 12th October 2012 (re-published 23rd October 2012)

Table 1 - No Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
1	Conductivity	ms/cm	Upon discharge	0						
2	Conductivity	ms/cm	Upon discharge	0						
3	Conductivity	ms/cm	Upon discharge	0						
4	Conductivity	ms/cm	Upon discharge	No longer exists						
5	TSS	mg/L	Upon discharge	0						
	Conductivity	ms/cm		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
6	TSS	mg/L	Upon discharge	0						
	Conductivity	ms/cm		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
7	TSS	mg/L	Upon	0						

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
	Conductivity	ms/cm	discharge	0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
8	TSS	mg/L	Upon discharge	0						
	Conductivity	ms/cm		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
24	Conductivity	ms/cm	Upon discharge	0						
25	Conductivity	ms/cm	Upon discharge	0						
26	Conductivity	ms/cm	Upon discharge	0						
27	Conductivity	ms/cm	Upon discharge	0						

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 or Only Value	100%ile Limit	Exceedance (Yes/No)	Comments
1	TSS	mg/L	Upon discharge	0					50		
	Oil & Grease	mg/L		0					10		
	pH	pH		0					6.5-8.5		
2	TSS	mg/L	Upon discharge	0					50		
	Oil & Grease	mg/L		0					10		
	pH	pH		0					6.5-8.5		
3	TSS	mg/L	Upon discharge	0					50		
	Oil & Grease	mg/L		0					10		
	pH	pH		0					6.5-8.5		
4 (No longer exists)	TSS	mg/L	Upon discharge						50		
	Oil & Grease	mg/L							10		
	pH	pH							6.5-8.5		
24	TSS	mg/L	Upon discharge	0					50		
	Oil & Grease	mg/L		0					10		
	pH	pH		0					6.5-8.5		
25	TSS	mg/L	Upon discharge	0					50		
	Oil & Grease	mg/L		0					10		
	pH	pH		0					6.5-8.5		
26	TSS	mg/L	Upon discharge	0					50		
	Oil & Grease	mg/L		0					10		
	pH	pH		0					6.5-8.5		
27	TSS	mg/L	Upon discharge	0					50		
	Oil & Grease	mg/L		0					10		
	pH	pH		0					6.5-8.5		

Table 3 – Monitoring (Quarterly & 6 Monthly – No Limits apply)

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Period	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
9	Conductivity	ms/cm	6 monthly	1	4/9/12	13/9/12	N/A	N/A	N/A	3570
	Lead	mg/L		1	4/9/12	13/9/12	N/A	N/A	N/A	0.003
	pH	pH		1	4/9/12	13/9/12	N/A	N/A	N/A	7.8
	Standing Water Level	metres		1	4/9/12	13/9/12	N/A	N/A	N/A	6.41
10	Conductivity	ms/cm	6 monthly	1	4/9/12	13/9/12	N/A	N/A	N/A	1310
	Lead	mg/L		1	4/9/12	13/9/12	N/A	N/A	N/A	0.003
	pH	pH		1	4/9/12	13/9/12	N/A	N/A	N/A	7.47
	Standing Water Level	metres		1	4/9/12	13/9/12	N/A	N/A	N/A	3.11
11	Conductivity	ms/cm	6 monthly	1	23/7/12	1/8/12	N/A	N/A	N/A	1700
	Lead	mg/L		1	23/7/12	1/8/12	N/A	N/A	N/A	<0.001
	pH	pH		1	23/7/12	1/8/12	N/A	N/A	N/A	7.56
	Standing Water Level	metres		1	23/7/12	1/8/12	N/A	N/A	N/A	9.9
12	Conductivity	ms/cm	6 monthly	1	4/9/12	13/9/12	N/A	N/A	N/A	3770
	Lead	mg/L		1	4/9/12	13/9/12	N/A	N/A	N/A	0.005
	pH	pH		1	4/9/12	13/9/12	N/A	N/A	N/A	7.98
	Standing Water Level	metres		1	4/9/12	13/9/12	N/A	N/A	N/A	9.11
13	Conductivity	ms/cm	Quarterly	2	2/5/2012, 14/8/2012	15/5/12, 22/8/12	2080	2150	2150	2220
	Oil & Grease	mg/L		2	2/5/2012, 14/8/2012	15/5/12, 22/8/12	<5	<5	<5	<5
	pH	pH		2	2/5/2012, 14/8/2012	15/5/12, 22/8/12	8.26	8.325	8.325	8.39
	TSS	mg/L		2	2/5/2012, 14/8/2012	15/5/12, 22/8/12	<5	7.5	7.5	10

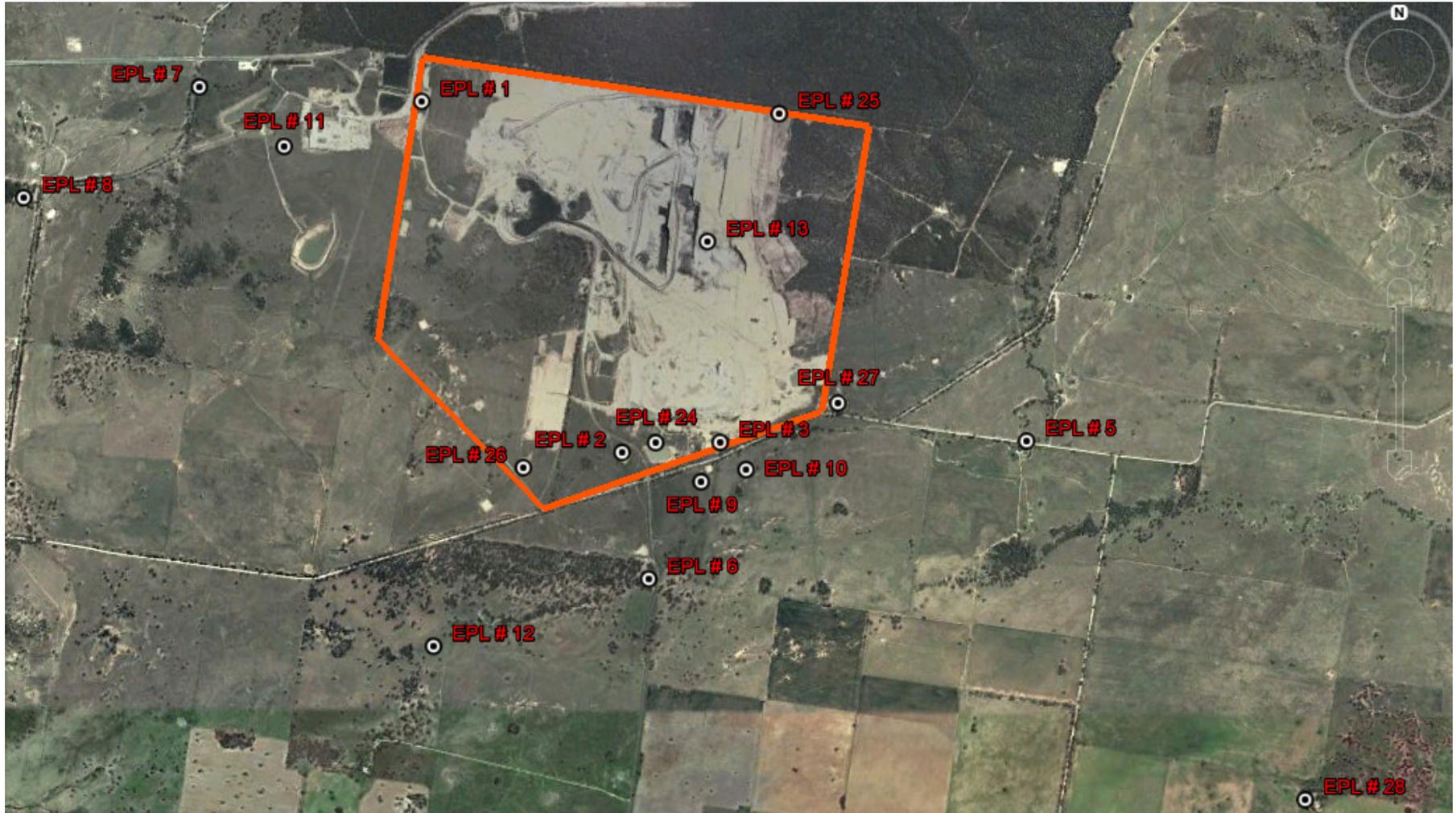
Table 4 – Monitoring (Noise – Limits Apply)

EPL ID	Date	Start Time	Measurement period	Measured Levels – dB(A) L _{eq} 15min Day	Measured Levels – dB(A) L _{eq} 15min Evening	Measured Levels – dB(A) L _{eq} 15min Night	Measured Levels – dB(A) L _{A1} (1 min) Night	Limit	Weather	Compliant (Yes/No)	Comments
N1											No monitoring this month
											No monitoring this month
											No monitoring this month
											No monitoring this month

Table 5 – 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
Tarrawonga	Blast Noise	dB (Lin Peak)	Every Blast	8	DNT	DNT	120	No
	Blast Vibration	mm/s	Every Blast	8	DNT	DNT	10	No
Templemore	Blast Noise	dB (Lin Peak)	Every Blast	8	108	111.80	120	No
	Blast Vibration	mm/s	Every Blast	8	0.54	0.7	10	No

Figure 1 – EPL 12365 Monitoring Locations



TARRAWONGA COAL MINE – MONTHLY MONITORING SUMMARY

Site Information

EPL No: 12365

EPA Website Link: <http://www.environment.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=30902&SYSUID=1&LICID=12365>

Licensee: Tarrawonga Coal Pty Ltd

Licensee Address: Tarrawonga Coal Mine, 469 Goonbri Road, BOGGABRI NSW 2382

EPL Monitoring Points: See Figure 1 below

Sampling Period: October 2012

Publication Date: 20th November 2012 (re-published 15th February 2013)

Table 1 - No Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max Value
5	TSS	mg/L	Upon discharge	0						
	Conductivity	ms/cm		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
6	TSS	mg/L	Upon discharge	0						
	Conductivity	ms/cm		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
7	TSS	mg/L	Upon discharge	0						
	Conductivity	ms/cm		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
8	TSS	mg/L	Upon discharge	0						
	Conductivity	ms/cm		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						



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
1	TSS	mg/L	Upon discharge	0					50		
	Oil & Grease	mg/L		0					10		
	pH	pH		0					6.5-8.5		
2	TSS	mg/L	Upon discharge	0					50		
	Oil & Grease	mg/L		0					10		
	pH	pH		0					6.5-8.5		
3	TSS	mg/L	Upon discharge	0					50		
	Oil & Grease	mg/L		0					10		
	pH	pH		0					6.5-8.5		
4 (No longer exists)	TSS	mg/L	Upon discharge						50		
	Oil & Grease	mg/L							10		
	pH	pH							6.5-8.5		
24	TSS	mg/L	Upon discharge	0					50		
	Oil & Grease	mg/L		0					10		
	pH	pH		0					6.5-8.5		
25	TSS	mg/L	Upon discharge	0					50		
	Oil & Grease	mg/L		0					10		
	pH	pH		0					6.5-8.5		
26	TSS	mg/L	Upon discharge	0					50		
	Oil & Grease	mg/L		0					10		
	pH	pH		0					6.5-8.5		
27	TSS	mg/L	Upon discharge	0					50		
	Oil & Grease	mg/L		0					10		
	pH	pH		0					6.5-8.5		

Table 3 – Monitoring (Quarterly & 6 Monthly – No Limits apply)

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Period	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max Value
9	Conductivity	ms/cm	6 monthly	0						
	Lead	mg/L		0						
	pH	pH		0						
	Standing Water Level	metres		0						
10	Conductivity	ms/cm	6 monthly	0						
	Lead	mg/L		0						
	pH	pH		0						
	Standing Water Level	metres		0						
11	Conductivity	ms/cm	6 monthly	0						
	Lead	mg/L		0						
	pH	pH		0						
	Standing Water Level	metres		0						
12	Conductivity	ms/cm	6 monthly	0						
	Lead	mg/L		0						
	pH	pH		0						
	Standing Water Level	metres		0						
13	Conductivity	ms/cm	Quarterly	0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
	TSS	mg/L		0						

Table 4 – Monitoring (Noise – Limits Apply)

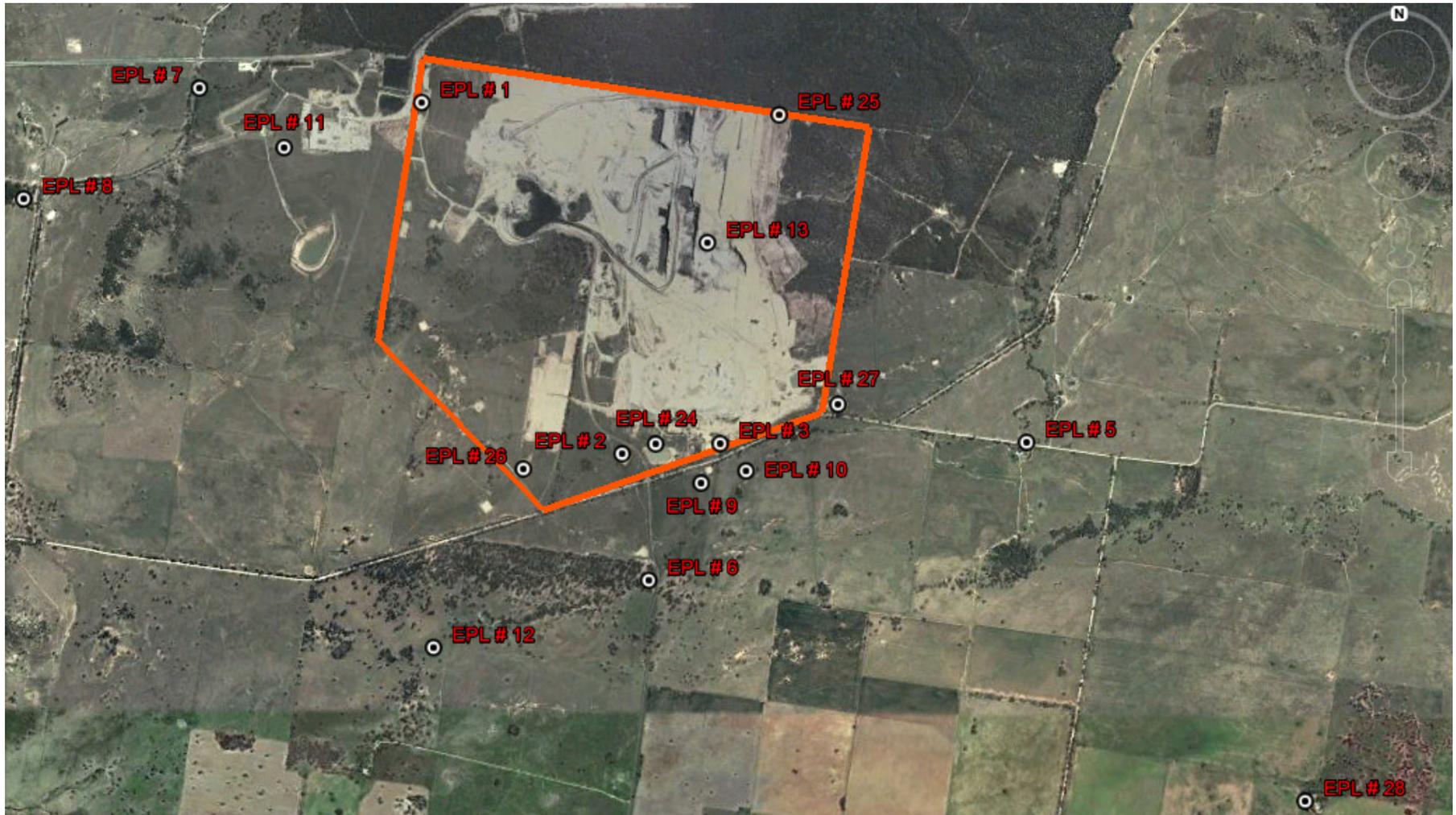
EPL ID	Date	Start Time	Measurement period	Measured Levels – dB(A) L _{eq} 15min Day	Measured Levels – dB(A) L _{eq} 15min Evening	Measured Levels – dB(A) L _{eq} 15min Night	Measured Levels – dB(A) L _{A1} (1 min) Night	Limit	Weather	Compliant (Yes/No)	Comments
Tarrawonga	24/9/12	1.22pm	15 minutes	Inaudible				35	3.5 m/s S	Yes	Privately owned – landholder advised of compulsory acquisition rights
	24/9/12	8.32pm	15 minutes		Inaudible			35	1.5 m/s NE	Yes	
	24/9/12	11.22pm	15 minutes			26		35	2.5 m/s E	Yes	
	24/9/12	10.20pm	15 minutes				<30	45	2.5 m/s E	Yes	
	25/9/12	9.00am	15 minutes	Inaudible				35	4 m/s S	Yes	
	25/9/12	8.02pm	15 minutes		31			35	0.5 m/s S	Yes	
	26/9/12	12.04am	15 minutes			32		35	Calm	Yes	
	26/9/12	1.22am	15 minutes				37	45	Calm	Yes	
	26/9/12	9.47am	15 minutes	20				35	3.0 m/s SE	Yes	
	26/9/12	9.03pm	15 minutes		33			35	3.0 m/s SE	Yes	
	27/9/12	12.59am	15 minutes			39		35	0.5 m/s NE	No	
27/9/12	1.47am	15 minutes				47	45	0.5 m/s NE	No		

Note: Measured levels refer to noise attributable to Tarrawonga Coal Mine

Table 5 – 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
Tarrawonga	Blast Noise	dB (Lin Peak)	Every Blast	8	98.9	101.7	120	NO
	Blast Vibration	mm/s	Every Blast	8	0.42	0.67	10	NO
Templemore	Blast Noise	dB (Lin Peak)	Every Blast	8	106.7	107.4	120	NO
	Blast Vibration	mm/s	Every Blast	8	0.98	1.1	10	NO

Figure 1 – EPL 12365 Monitoring Locations



TARRAWONGA COAL MINE – MONTHLY MONITORING SUMMARY

Site Information

EPL No: 12365

EPA Website Link: <http://www.environment.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=30902&SYSUID=1&LICID=12365>

Licensee: Tarrawonga Coal Pty Ltd

Licensee Address: Tarrawonga Coal Mine, 469 Goonbri Road, BOGGABRI NSW 2382

EPL Monitoring Points: See Figure 1 below

Sampling Period: November 2012

Publication Date: 12th December 2012

Table 1 - No Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max Value
5	TSS	mg/L	Upon discharge	0						
	Conductivity	ms/cm		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
6	TSS	mg/L	Upon discharge	0						
	Conductivity	ms/cm		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
7	TSS	mg/L	Upon discharge	0						
	Conductivity	ms/cm		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						
8	TSS	mg/L	Upon discharge	0						
	Conductivity	ms/cm		0						
	Oil & Grease	mg/L		0						
	pH	pH		0						



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
1	TSS	mg/L	Upon discharge	0					50		
	Oil & Grease	mg/L		0					10		
	pH	pH		0					6.5-8.5		
2	TSS	mg/L	Upon discharge	0					50		
	Oil & Grease	mg/L		0					10		
	pH	pH		0					6.5-8.5		
3	TSS	mg/L	Upon discharge	0					50		
	Oil & Grease	mg/L		0					10		
	pH	pH		0					6.5-8.5		
4 (No longer exists)	TSS	mg/L	Upon discharge						50		
	Oil & Grease	mg/L							10		
	pH	pH							6.5-8.5		
24	TSS	mg/L	Upon discharge	0					50		
	Oil & Grease	mg/L		0					10		
	pH	pH		0					6.5-8.5		
25	TSS	mg/L	Upon discharge	0					50		
	Oil & Grease	mg/L		0					10		
	pH	pH		0					6.5-8.5		
26	TSS	mg/L	Upon discharge	0					50		
	Oil & Grease	mg/L		0					10		
	pH	pH		0					6.5-8.5		
27	TSS	mg/L	Upon discharge	0					50		
	Oil & Grease	mg/L		0					10		
	pH	pH		0					6.5-8.5		

Table 3 – Monitoring (Quarterly & 6 Monthly – No Limits apply)

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Period	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max Value
9	Conductivity	ms/cm	6 monthly	0						
	Lead	mg/L		0						
	pH	pH		0						
	Standing Water Level	metres		0						
10	Conductivity	ms/cm	6 monthly	0						
	Lead	mg/L		0						
	pH	pH		0						
	Standing Water Level	metres		0						
11	Conductivity	ms/cm	6 monthly	0						
	Lead	mg/L		0						
	pH	pH		0						
	Standing Water Level	metres		0						
12	Conductivity	ms/cm	6 monthly	0						
	Lead	mg/L		0						
	pH	pH		0						
	Standing Water Level	metres		0						
13	Conductivity	ms/cm	Quarterly	1	14/11/12	22/11/12	N/A	N/A	N/A	2870
	Oil & Grease	mg/L		1	14/11/12	22/11/12	N/A	N/A	N/A	<5
	pH	pH		1	14/11/12	22/11/12	N/A	N/A	N/A	8.62
	TSS	mg/L		1	14/11/12	22/11/12	N/A	N/A	N/A	10

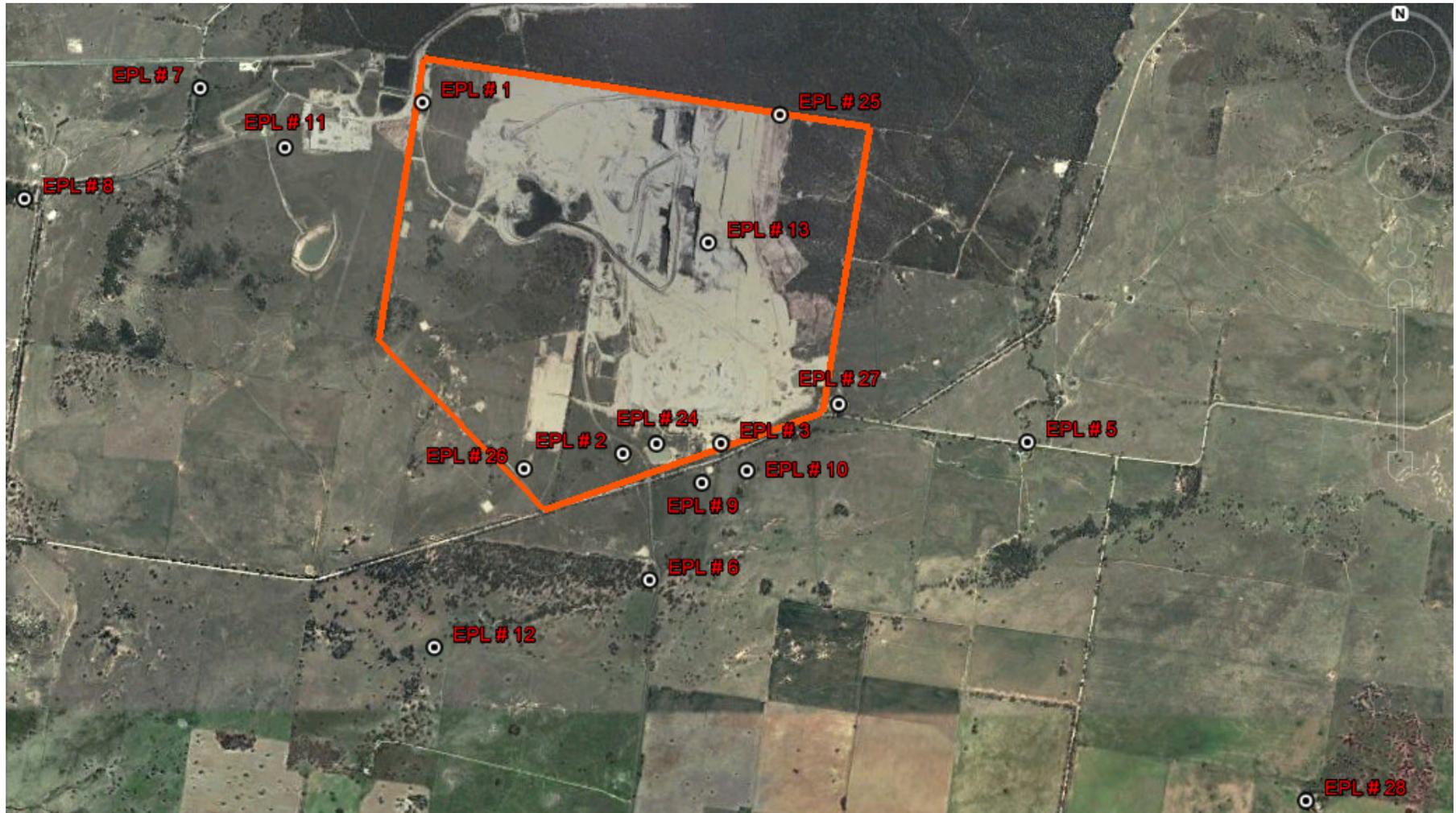
Table 4 – Monitoring (Noise – Limits Apply)

EPL ID	Date	Start Time	Measurement period	Measured Levels – dB(A) L _{eq} 15min Day	Measured Levels – dB(A) L _{eq} 15min Evening	Measured Levels – dB(A) L _{eq} 15min Night	Measured Levels – dB(A) L _{A1} (1 min) Night	Limit	Weather	Compliant (Yes/No)	Comments
Tarrawonga											No monitoring this month
											No monitoring this month
											No monitoring this month
											No monitoring this month
											No monitoring this month

Table 5 – 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
Tarrawonga	Blast Noise	dB (Lin Peak)	Every Blast	9	108.4	112.2	120	No
	Blast Vibration	mm/s	Every Blast	9	0.4623	0.67	10	No
Templemore	Blast Noise	dB (Lin Peak)	Every Blast	9	106.31	113.7	120	No
	Blast Vibration	mm/s	Every Blast	9	0.8426	1.57	10	No

Figure 1 – EPL 12365 Monitoring Locations



TARRAWONGA COAL MINE – MONTHLY MONITORING SUMMARY

Site Information

EPL No: 12365

EPA Website Link: <http://www.environment.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=30902&SYSUID=1&LICID=12365>

Licensee: Tarrawonga Coal Pty Ltd

Licensee Address: Tarrawonga Coal Mine, 469 Goonbri Road, BOGGABRI NSW 2382

EPL Monitoring Points: See Figure 1 below

Sampling Period: December 2012

Publication Date: 11th January 2013 (re-published 15th February 2013)

Table 1 - No Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max Value
5	TSS	mg/L	Upon discharge	0	-	-	-	-	-	-
	Conductivity	ms/cm		0	-	-	-	-	-	-
	Oil & Grease	mg/L		0	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-
6	TSS	mg/L	Upon discharge	0	-	-	-	-	-	-
	Conductivity	ms/cm		0	-	-	-	-	-	-
	Oil & Grease	mg/L		0	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-
7	TSS	mg/L	Upon discharge	0	-	-	-	-	-	-
	Conductivity	ms/cm		0	-	-	-	-	-	-
	Oil & Grease	mg/L		0	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-
8	TSS	mg/L	Upon discharge	0	-	-	-	-	-	-
	Conductivity	ms/cm		0	-	-	-	-	-	-
	Oil & Grease	mg/L		0	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-



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
1	TSS	mg/L	Upon discharge	0	-	-	-	-	50	-	-
	Oil & Grease	mg/L		0	-	-	-	-	10	-	-
	pH	pH		0	-	-	-	-	6.5-8.5	-	-
2	TSS	mg/L	Upon discharge	0	-	-	-	-	50	-	-
	Oil & Grease	mg/L		0	-	-	-	-	10	-	-
	pH	pH		0	-	-	-	-	6.5-8.5	-	-
3	TSS	mg/L	Upon discharge	0	-	-	-	-	50	-	-
	Oil & Grease	mg/L		0	-	-	-	-	10	-	-
	pH	pH		0	-	-	-	-	6.5-8.5	-	-
4 (No longer exists)	TSS	mg/L	Upon discharge	-	-	-	-	-	50	-	-
	Oil & Grease	mg/L		-	-	-	-	-	10	-	-
	pH	pH		-	-	-	-	-	6.5-8.5	-	-
24	TSS	mg/L	Upon discharge	0	-	-	-	-	50	-	-
	Oil & Grease	mg/L		0	-	-	-	-	10	-	-
	pH	pH		0	-	-	-	-	6.5-8.5	-	-
25	TSS	mg/L	Upon discharge	0	-	-	-	-	50	-	-
	Oil & Grease	mg/L		0	-	-	-	-	10	-	-
	pH	pH		0	-	-	-	-	6.5-8.5	-	-
26	TSS	mg/L	Upon discharge	0	-	-	-	-	50	-	-
	Oil & Grease	mg/L		0	-	-	-	-	10	-	-
	pH	pH		0	-	-	-	-	6.5-8.5	-	-
27	TSS	mg/L	Upon discharge	0	-	-	-	-	50	-	-
	Oil & Grease	mg/L		0	-	-	-	-	10	-	-
	pH	pH		0	-	-	-	-	6.5-8.5	-	-

Table 3 – Monitoring (Quarterly & 6 Monthly – No Limits apply)

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Period	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max Value
9	Conductivity	ms/cm	6 monthly	0	-	-	-	-	-	-
	Lead	mg/L		0	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-
	Standing Water Level	metres		0	-	-	-	-	-	-
10	Conductivity	ms/cm	6 monthly	0	-	-	-	-	-	-
	Lead	mg/L		0	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-
	Standing Water Level	metres		0	-	-	-	-	-	-
11	Conductivity	ms/cm	6 monthly	0	-	-	-	-	-	-
	Lead	mg/L		0	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-
	Standing Water Level	metres		0	-	-	-	-	-	-
12	Conductivity	ms/cm	6 monthly	0	-	-	-	-	-	-
	Lead	mg/L		0	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-
	Standing Water Level	metres		0	-	-	-	-	-	-
13	Conductivity	ms/cm	Quarterly	0	-	-	-	-	-	-
	Oil & Grease	mg/L		0	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-
	TSS	mg/L		0	-	-	-	-	-	-

Table 4 – Monitoring (Noise – Limits Apply)

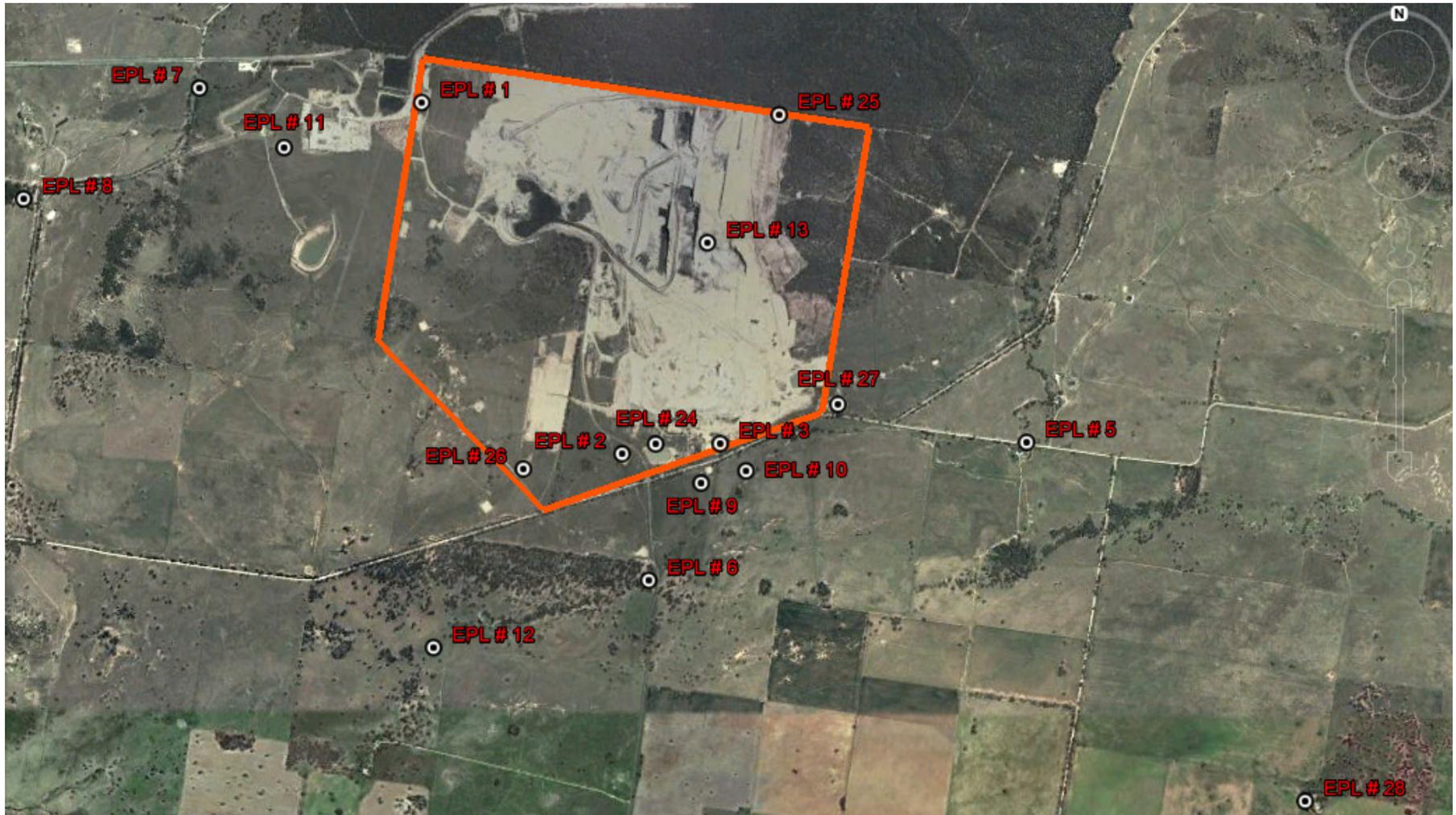
EPL ID	Date	Start Time	Measurement period	Measured Levels – dB(A) L_{eq} 15min Day	Measured Levels – dB(A) L_{eq} 15min Evening	Measured Levels – dB(A) L_{eq} 15min Night	Measured Levels – dB(A) L_{A1} (1 min) Night	Limit	Wind Speed / Direction	Compliant (Yes/No)	Comments
Tarrawonga	11/12/12	8:07am	90 minutes	Inaudible				35	4.7m/s 160°	Yes	Privately owned – landholder advised of compulsory acquisition rights
	12/12/12	8:57am	90 minutes	20				35	4.8m/s 123°	Yes	
	12/12/12	8:37pm	30 minutes		37			35	3.9 m/s 109°	No	
	12/12/12	10:05pm	60 minutes			33		35	3.2 m/s 108°	Yes	
	12/12/12	10:05pm	60 minutes				40	45	3.2 m/s 108°	Yes	
	13/12/12	7:57am	90 minutes	25				35	1.4 m/s 95°	Yes	
	13/12/12	8:28pm	30 minutes		32			35	1.3 m/s 13°	Yes	
	13/12/12	11:09pm	60 minutes			22		35	0.6 m/s 30°	Yes	
	13/12/12	11:09pm	60 minutes				25	45	0.6 m/s 30°	Yes	
	14/12/12	7:35pm	30 minutes		30			35	1.4 m/s 92°	Yes	
	15/12/12	1:04am	60 minutes			38		35	5.0 m/s 28°	Yes	
15/12/12	1:04am	60 minutes				n/a	45	5.0 m/s 28°	Yes		

Note: Measured levels refer to noise attributable to Tarrawonga Coal Mine

Table 5 – 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
Tarrawonga	Blast Noise	dB (Lin Peak)	Every Blast	5	101.3	101.3	120	No
	Blast Vibration	mm/s	Every Blast	5	0.1313	0.1313	10	No
Templemore	Blast Noise	dB (Lin Peak)	Every Blast	5	103.54	112.30	120	No
	Blast Vibration	mm/s	Every Blast	5	0.967	1.237	10	No

Figure 1 – EPL 12365 Monitoring Locations





TARRAWONGA COAL MINE – MONTHLY MONITORING SUMMARY CORRECTION LOG

Site Information

EPL No: 12365

EPA Website Link: <http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=55113&SYSUID=1&LICID=12365>

Licensee: Tarrawonga Coal Pty Ltd

Licensee Address: Tarrawonga Coal Mine, 469 Goonbri Road, BOGGABRI NSW 2382

Sample Point/s	Sample Date	Original Data	Corrected Data	Date Corrected	Date Originally Published	Reason
1-4, 24-27	April 2012	-	See report	23/10/12	21/6/12	The EPL requires monitoring of four pollutants but limits only apply to three of those pollutants. The fourth pollutant (Electrical Conductivity) was unintentionally excluded from reporting and has now been included.
1-4, 24-27	May 2012	-	See report	23/10/12	21/6/12	
1-4, 24-27	June 2012	-	See report	23/10/12	24/7/12	
1-4, 24-27	July 2012	-	See report	23/10/12	21/8/12	
1-4, 24-27	August 2012	-	See report	23/10/12	12/9/12	
1-4, 24-27	September 2012	-	See report	23/10/12	12/10/12	
N1	October 2012	-	See report	15/2/13	20/11/12	Total noise measured provided instead of noise levels attributable to Tarrawonga.
N1	December 2012	-	See report	15/2/13	11/1/13	Monitoring results from December unintentionally exclude from report.
11	July 2014	-	See report	28/10/14	10/8/14	Sample was not received until October 2014
13	August 2014	-	See report	28/10/14	18/9/14	Administrative error resulted in omission of result.



WHITEHAVEN COAL

TARRAWONGA COAL MINE – MONTHLY MONITORING SUMMARY

CORRECTION LOG

Sample Point/s	Sample Date	Original Data	Corrected Data	Date Corrected	Date Originally Published	Reason
11	January 2017	-	See Report	4/4/2017	7/2/2017	Provision of data not available at time of publication.