TARRAWONGA COAL MINE – MONTHLY MONITORING SUMMARY

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
EPL Monitoring Points: See Figure 1 below
Sampling Period: January 2016
Publication Date: 23rd February 2016

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
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	1	-	-	-	-	-	-
	Conductivity	ms/cm		1	-	-	-	-	-	-
	Oil & Grease	mg/L		1	-	-	-	-	-	-
	pH	pH		1	-	-	-	-	-	-

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	-	-	-	-		-	-
	Oil & Grease	mg/L		0	-	-	-	-		-	-
	pH	pH		0	-	-	-	-		-	-
2	TSS	mg/L	Upon discharge	0	-	-	-	-		-	-
	Oil & Grease	mg/L		0	-	-	-	-		-	-
	pH	pH		0	-	-	-	-		-	-
3	TSS	mg/L	Upon discharge	0	-	-	-	-		-	-
	Oil & Grease	mg/L		0	-	-	-	-		-	-
	pH	pH		0	-	-	-	-		-	-
24	TSS	mg/L	Upon discharge	0	-	-	-	-		-	-
	Oil & Grease	mg/L		0	-	-	-	-		-	-
	pH	pH		0	-	-	-	-		-	-
25	TSS	mg/L	Upon discharge	0	-	-	-	-		-	-
	Oil & Grease	mg/L		0	-	-	-	-		-	-
	pH	pH		0	-	-	-	-		-	-
26	TSS	mg/L	Upon discharge	0	-	-	-	-		-	-
	Oil & Grease	mg/L		0	-	-	-	-		-	-
	pH	pH		0	-	-	-	-		-	-
27	TSS	mg/L	Upon discharge	0	-	-	-	-		-	-
	Oil & Grease	mg/L		0	-	-	-	-		-	-
	pH	pH		0	-	-	-	-		-	-

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	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)

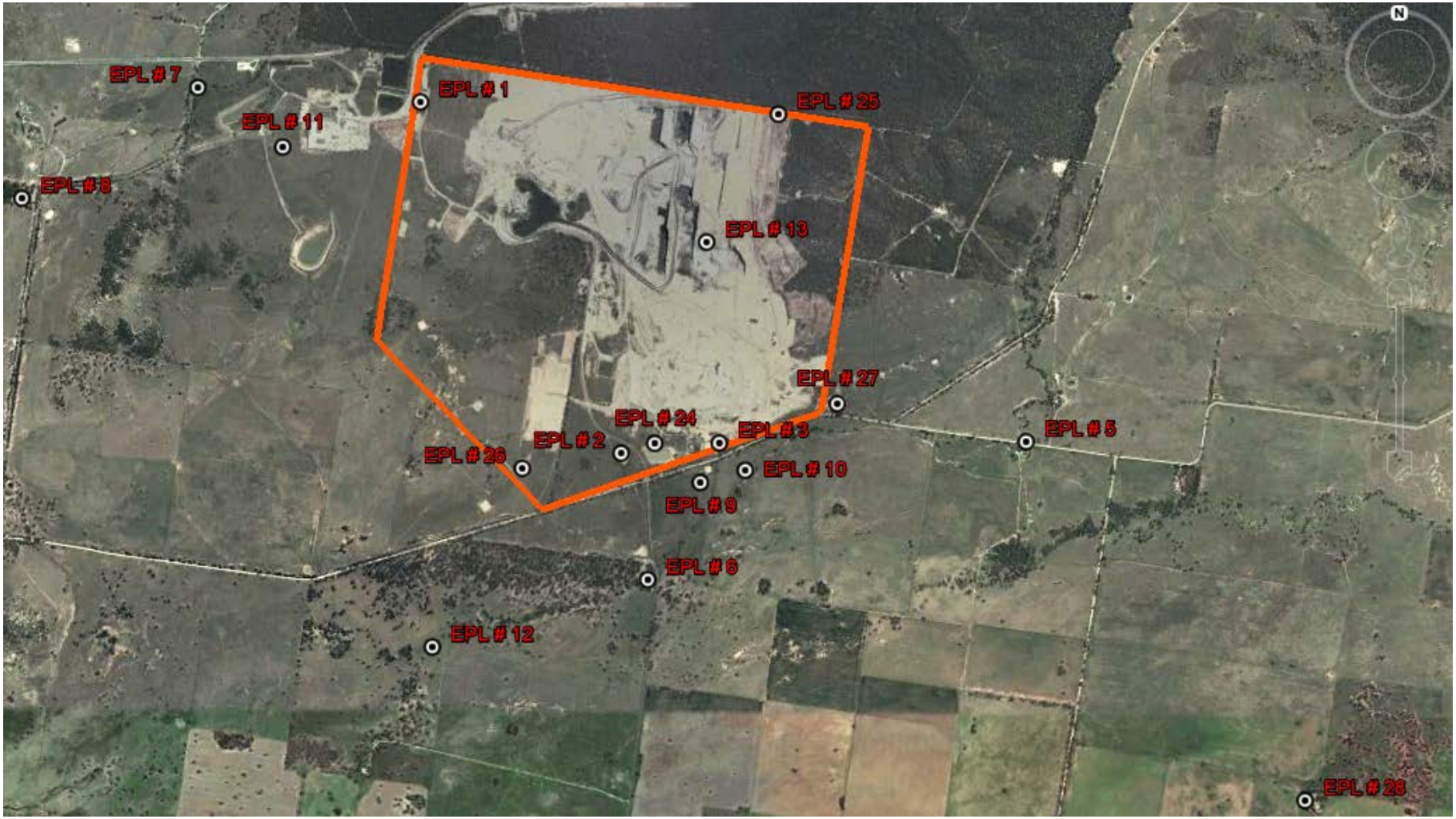
EPL ID	Date	Start Time	Measurement period	Measured Levels – dB(A) $L_{eq\ 15min\ Day}$	Measured Levels – dB(A) $L_{eq\ 15min}$ Evening	Measured Levels – dB(A) $L_{eq\ 15min\ Night}$	Measured Levels – dB(A) $L_{A1\ (1\ min)}$ Night	Limit	Weather	Compliant (Yes/No)	Comments
TN2, TN3, TN4			90								No monitoring undertaken
			30								
			60								
			60								
			90								
			30								
			60								
			60								
			90								
			30								
			60								
			60								
			90								
			30								
			60								
			60								

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

Table 7 – 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	101.9	111.4	120	**Nil**
	Blast Vibration	mm/s	Every Blast	7	0.27	0.47	10	**Nil**

Figure 1 – EPL 12365 Monitoring Locations



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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
EPL Monitoring Points: See Figure 1 below
Sampling Period: February 2016
Publication Date: 9 March 2016

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

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	24/2/2016	9/3/2016	-	-	-	3400
	Lead	mg/L		1	24/2/2016	9/3/2016	-	-	-	0.001
	pH	pH		1	24/2/2016	9/3/2016	-	-	-	8.09
	Standing Water Level	metres		1	24/2/2016	9/3/2016	-	-	-	6.59
10	Conductivity	ms/cm	6 monthly	1	24/2/2016	9/3/2016	-	-	-	575
	Lead	mg/L		1	24/2/2016	9/3/2016	-	-	-	<0.001
	pH	pH		1	24/2/2016	9/3/2016	-	-	-	7.38
	Standing Water Level	metres		1	24/2/2016	9/3/2016	-	-	-	3.62
11	Conductivity	ms/cm	6 monthly	1	24/2/2016	7/3/2016	-	-	-	2050
	Lead	mg/L		1	24/2/2016	7/3/2016	-	-	-	<0.001
	pH	pH		1	24/2/2016	7/3/2016	-	-	-	7.94
	Standing Water Level	metres		1	24/2/2016	7/3/2016	-	-	-	9.37
12	Conductivity	ms/cm	6 monthly	1	24/2/2016	9/3/2016	-	-	-	4650
	Lead	mg/L		1	24/2/2016	9/3/2016	-	-	-	0.014
	pH	pH		1	24/2/2016	9/3/2016	-	-	-	7.85
	Standing Water Level	metres		1	24/2/2016	9/3/2016	-	-	-	8.86
13	Conductivity	ms/cm	Quarterly	1	11/2/2016	19/2/2016	-	-	-	882
	Oil & Grease	mg/L		1	11/2/2016	19/2/2016	-	-	-	<5
	pH	pH		1	11/2/2016	19/2/2016	-	-	-	8.28
	TSS	mg/L		1	11/2/2016	19/2/2016	-	-	-	53

Table 4 – Monitoring (Noise – Limits Apply)

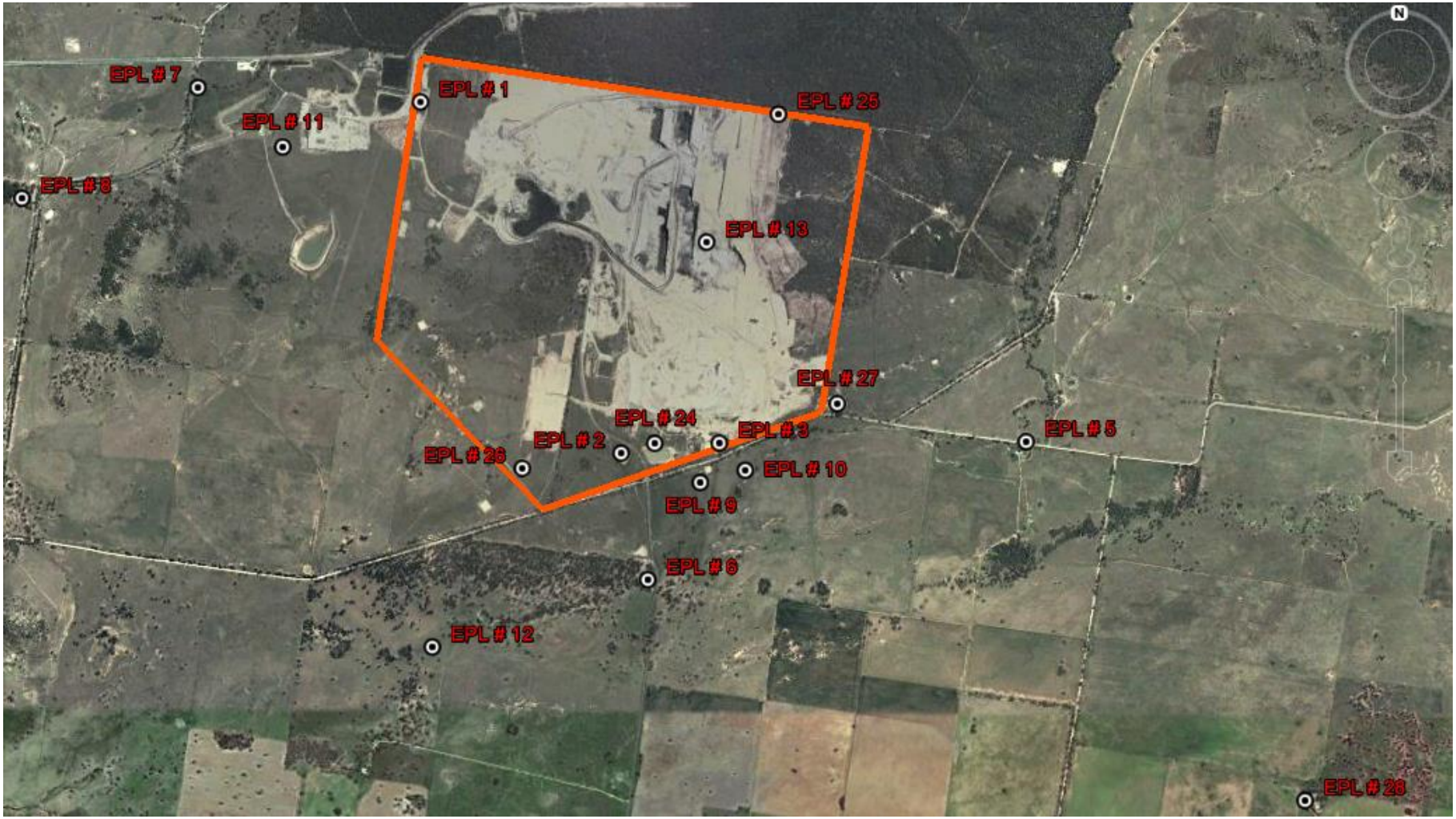
EPL ID	Date	Start Time	Measurement period	Measured Levels – dB(A) $L_{eq\ 15min\ Day}$	Measured Levels – dB(A) $L_{eq\ 15min}$ Evening	Measured Levels – dB(A) $L_{eq\ 15min\ Night}$	Measured Levels – dB(A) $L_{A1\ (1\ min)}$ Night	Limit	Weather	Compliant (Yes/No)	Comments
TN2, TN3, TN4			90								No monitoring undertaken
			30								
			60								
			60								
			90								
			30								
			60								
			60								
			90								
			30								
			60								
			60								
			90								
			30								
			60								
			60								

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

Table 7 – 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	97.5	109.1	120	**Nil**
	Blast Vibration	mm/s	Every Blast	8	0.23	0.54	10	**Nil**

Figure 1 – EPL 12365 Monitoring Locations



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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
EPL Monitoring Points: See Figure 1 below
Sampling Period: March 2016
Obtained Date: 1 April 2016
Publication Date: 11 April 2016

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
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	-	-	-	-	-	-

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

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	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)	Date Obtained
TN2	1/3/2016	11.25am	90	20				35	1.3/154	Yes	1/4/2016
	1/3/2016	8.02pm	30		<20			35	3.5/107	Yes	
	1/3/2016	10.21pm	60			<20		35	4.9/89	Yes	
	1/3/2016	10.21pm	60				<20	45	4.9/89	Yes	
	2/3/2016	10.59am	90	<20				35	1.6/185	Yes	
	2/3/2016	7.43pm	30		<20			35	4.1/113	Yes	
	3/3/2016	12.45am	60			<20		35	2.5/38	Yes	
	3/3/2016	12.45am	60				<20	45	2.5/38	Yes	
	3/3/2016	11.10am	90	<20				35	1.3/238	Yes	
	3/3/2016	7.34pm	30		<20			35	2.0/128	Yes	
	4/3/2016	12.41am	60			<20		35	2.6/60	Yes	
	4/3/2016	12.41am	60				<20	45	2.6/60	Yes	
	4/3/2016	9.35am	90	<20				35	1.0/149	Yes	
	4/3/2016	7.50pm	30		<20			35	2.3/97	Yes	
	4/3/2016	10.05pm	60			<20		35	4.2/117	Yes	
	4/3/2016	10.05pm	60				<20	45	4.2/117	Yes	

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

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)	Date Obtained
TN3	1/3/2016	1.10pm	90	<20				35	1.6/156	Yes	1/4/2016
	1/3/2016	8.30pm	30		<20			35	3.9/111	Yes	
	1/3/2016	10.00pm	60			24		35	4.5/99	Yes	
	1/3/2016	10.00pm	60				27	45	4.5/99	Yes	
	2/3/2016	10.31am	90	<20				35	1.7/192	Yes	
	2/3/2016	8.30pm	30		<20			35	3.9/115	Yes	
	2/3/2016	10.00pm	60			25		35	5.4/68	Yes	
	2/3/2016	10.00pm	60				29	45	5.4/68	Yes	
	3/3/2016	8.25am	90	<20				35	1.3/171	Yes	
	3/3/2016	8.03pm	30		<20			35	2.8/128	Yes	
	3/3/2016	10.00pm	60			26		35	3.9/76	Yes	
	3/3/2016	10.00pm	60				30	45	3.9/76	Yes	
	4/3/2016	11.17am	90	<20				35	2.0/234	Yes	
	4/3/2016	9.21pm	30		<20			35	5.1/116	Yes	
	4/3/2016	11.18pm	60			30		35	2.9/47	Yes	
	4/3/2016	11.18pm	60				34	45	2.9/47	Yes	

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

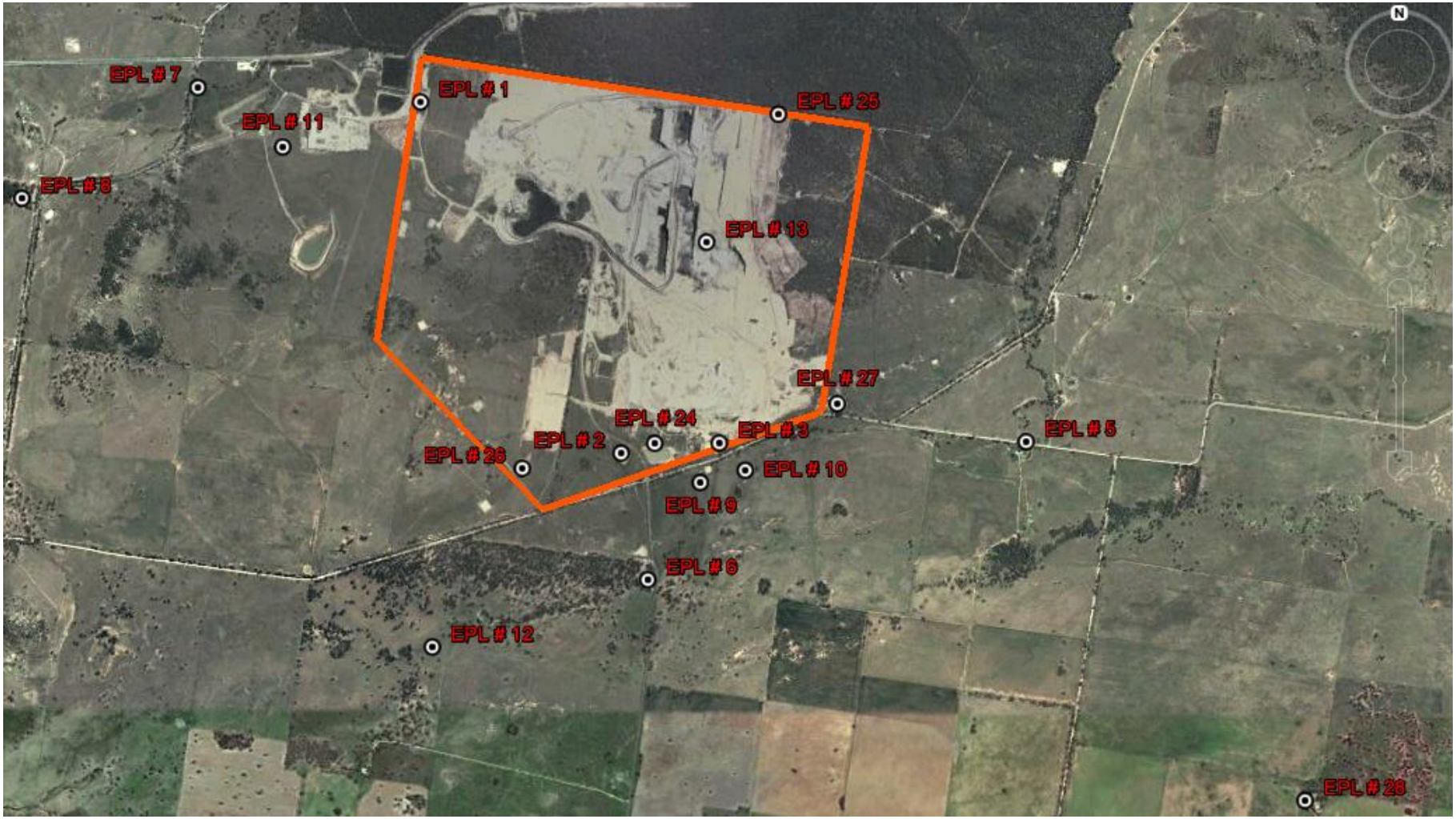
EPL ID	Date	Start Time	Measurement period	Measured Levels – dB(A) $L_{eq\ 15min\ Day}$	Measured Levels – dB(A) $L_{eq\ 15min}$ Evening	Measured Levels – dB(A) $L_{eq\ 15min\ Night}$	Measured Levels – dB(A) $L_{A1\ (1\ min)}$ Night	Limit	Weather	Compliant (Yes/No)	Date Obtained
TN4	1/3/2016	2.54pm	90	<20				35	2.0/216	Yes	1/4/2016
	1/3/2016	9.09pm	30		24			35	5.3/118	Yes	
	1/3/2016	11.10pm	60			<20		35	4.7/61	Yes	
	1/3/2016	11.10pm	60				<20	45	4.7/61	Yes	
	2/3/2016	12.12pm	90	<20				35	1.5/164	Yes	
	2/3/2016	9.15pm	30		<20			35	4.6/103	Yes	
	2/3/2016	11.09pm	60			<20		35	4.8/43	Yes	
	2/3/2016	11.09pm	60				<20	45	4.8/43	Yes	
	3/3/2016	10.07am	90	<20				35	1.6/20	Yes	
	3/3/2016	8.43pm	30		24			35	5.6/63	Yes	
	3/3/2016	11.15pm	60			2.3		35	3.7/50	Yes	
	3/3/2016	11.15pm	60				26	45	3.7/50	Yes	
	4/3/2016	10.04am	90	<20				35	1.0/149	Yes	
	4/3/2016	8.36pm	30		<20			35	5.0/112	Yes	
	5/3/2016	12.28am	60			24		35	2.6/62	Yes	
	5/3/2016	12.28am	60				26	45	2.6/62	Yes	

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

Table 7 – 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	Date Obtained
Tarrawonga	Blast Noise	dB (Lin Peak)	Every Blast	6	103.8	119.5	120	Nil	24/3/2016
	Blast Vibration	mm/s	Every Blast	6	0.23	0.63	10	Nil	24/3/2016

Figure 1 – EPL 12365 Monitoring Locations



TARRAWONGA COAL MINE – MONTHLY MONITORING SUMMARY

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
EPL Monitoring Points: See Figure 1 below
Sampling Period: April 2016
Obtained Date: 29 April 2016
Publication Date: 13 May 2016

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
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	-	-	-	-	-	-

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

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	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)

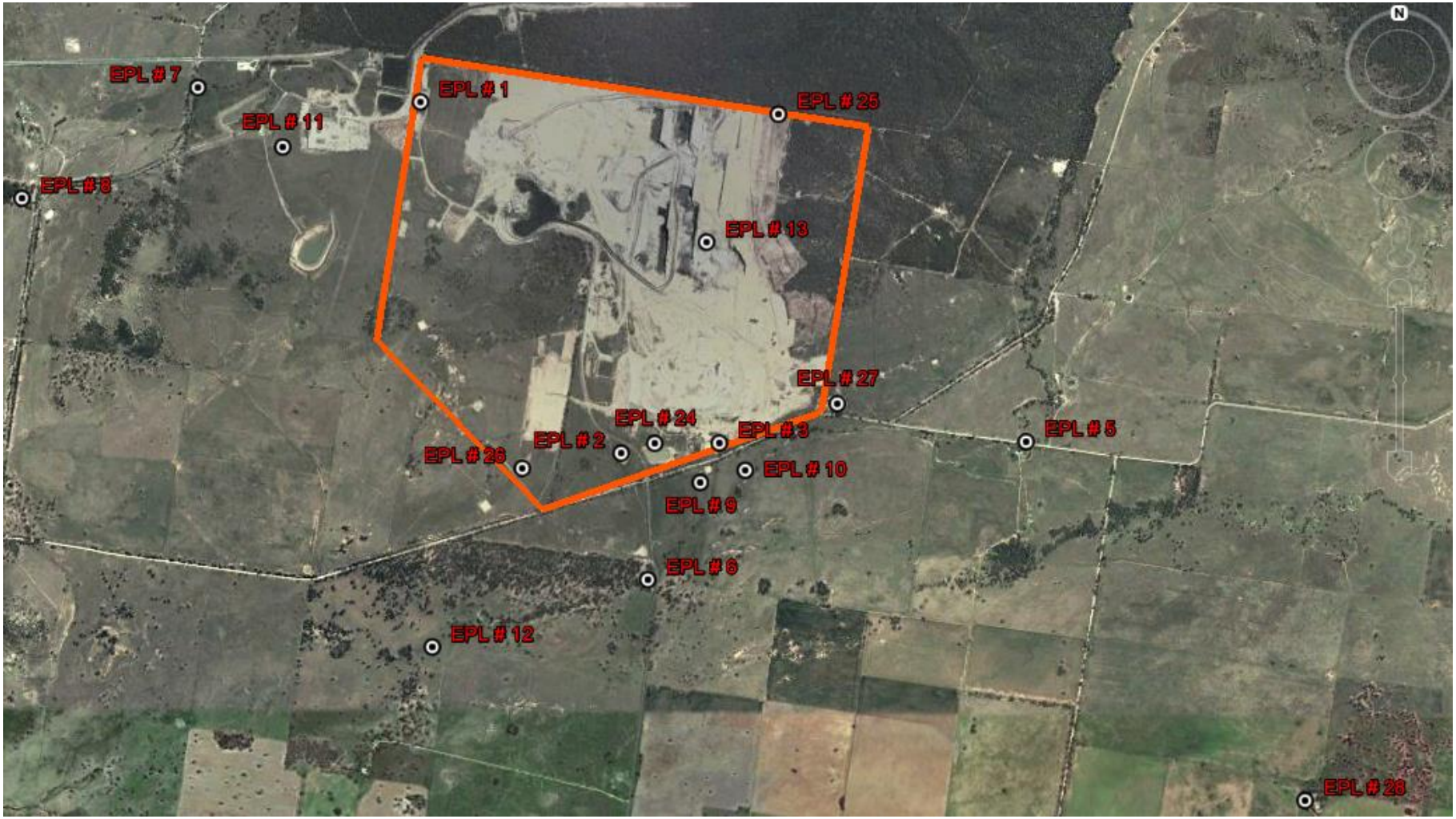
EPL ID	Date	Start Time	Measurement period	Measured Levels – dB(A) $L_{eq\ 15min\ Day}$	Measured Levels – dB(A) $L_{eq\ 15min}$ Evening	Measured Levels – dB(A) $L_{eq\ 15min\ Night}$	Measured Levels – dB(A) $L_{A1\ (1\ min)}$ Night	Limit	Weather	Compliant (Yes/No)	Date Obtained
TN2, TN3, TN4											No monitoring

Note: Measured noise 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	Date Obtained
Tarrawonga	Blast Noise	dB (Lin Peak)	Every Blast	10	90.6	106.0	120	Nil	29/4/2016
	Blast Vibration	mm/s	Every Blast	10	0.21	0.42	10	Nil	29/4/2016

Figure 1 – EPL 12365 Monitoring Locations



TARRAWONGA COAL MINE – MONTHLY MONITORING SUMMARY

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
EPL Monitoring Points: See Figures 1 and 2 below
Sampling Period: May 2016
Obtained Date: 20 May 2016
Publication Date: 3 June 2016

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
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	-	-	-	-	-	-

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

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	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	10/5/2016	17/5/2016	-	-		3270
	Oil & Grease	mg/L		1	10/5/2016	17/5/2016	-	-		<5
	pH	pH		1	10/5/2016	17/5/2016	-	-		8.33
	TSS	mg/L		1	10/5/2016	17/5/2016	-	-		<5

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)	Date Obtained
TN2, TN3, TN4											No monitoring

Note: Measured noise 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	Date Obtained
Tarrawonga	Blast Noise	dB (Lin Peak)	Every Blast	4	104.4	110.0	120	Nil	20/4/2016
	Blast Vibration	mm/s	Every Blast	4	0.46	0.67	10	Nil	20/4/2016

Figure 1 – EPL 12365 Onsite Monitoring Locations

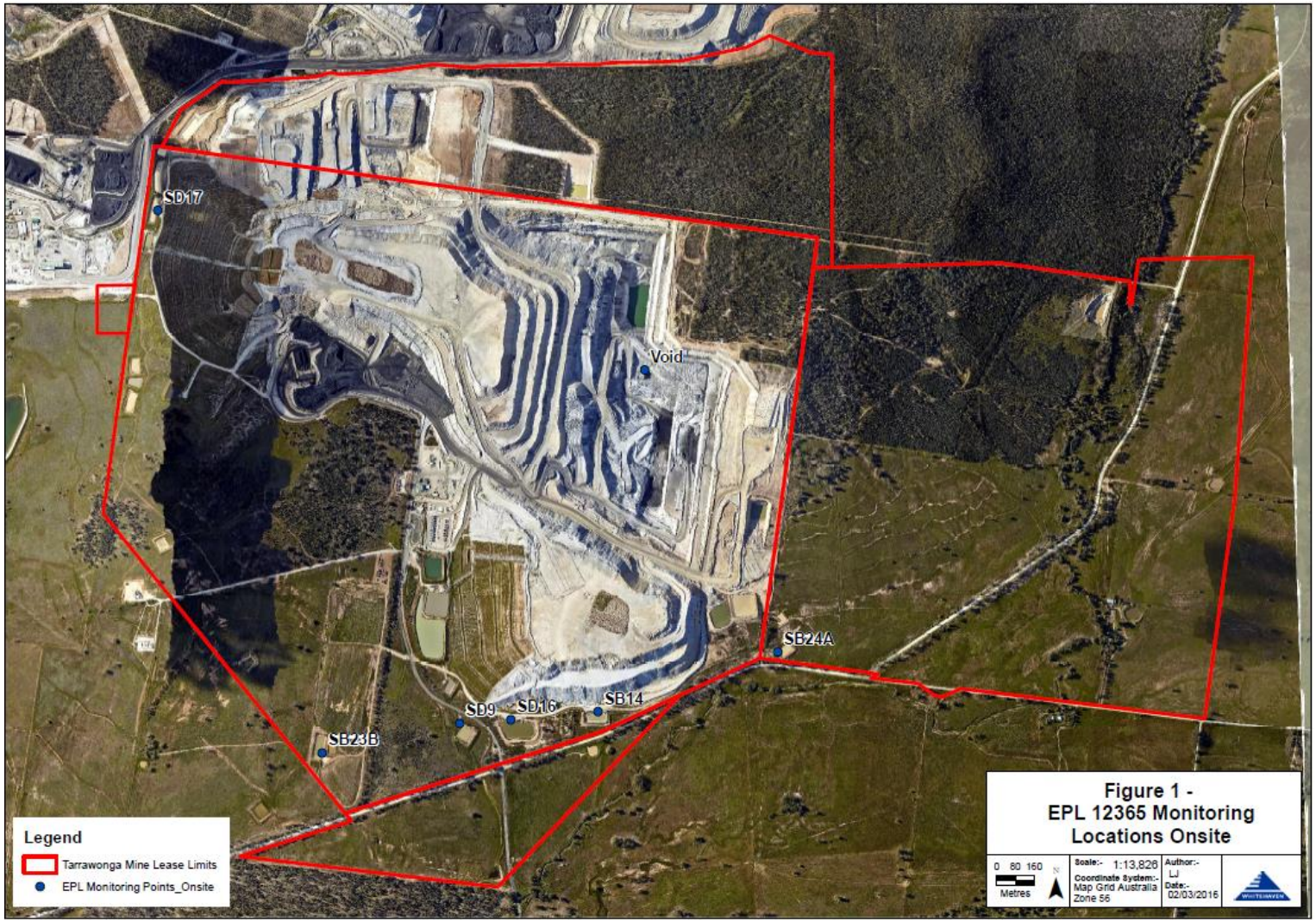
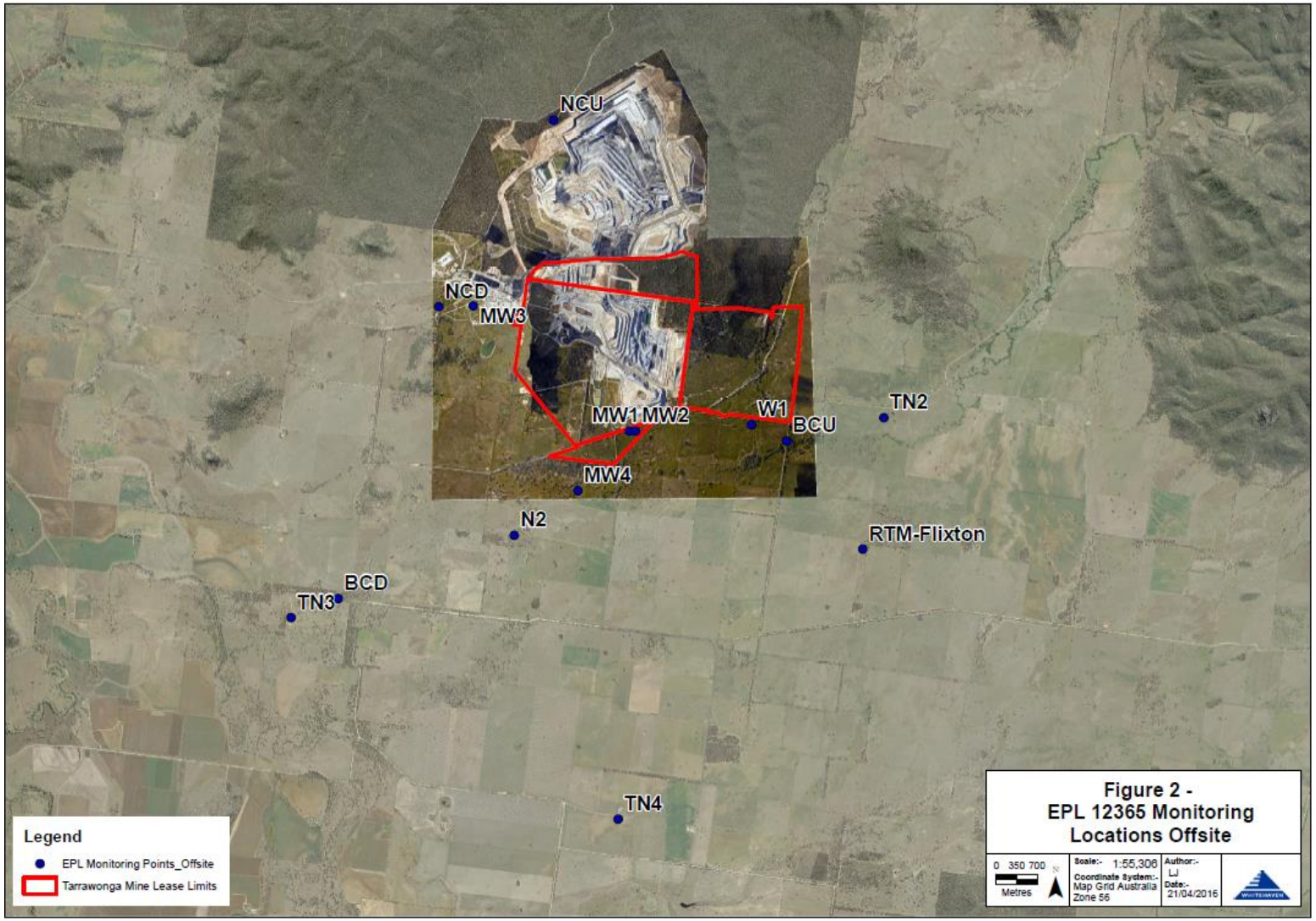


Figure 2 – EPL 12365 Offsite Monitoring Locations



TARRAWONGA COAL MINE – MONTHLY MONITORING SUMMARY

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
EPL Monitoring Points: See Figure 1 and 2 below
Sampling Period: June 2016
Obtained Date: 30 June 2016
Publication Date: 13 July 2016

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
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	-	-	-	-	-	-

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

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	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)	Date Obtained
TN2	6/6/16	12.28pm	90	29				35	4.3/287	Yes	22/6/2016
	6/6/16	7.58pm	30		38*			35	2.3/301	Yes	
	6/6/16	10.06pm	60			39*		35	4.1/299	Yes	
	6/6/16	10.06pm	60				45	45	4.1/299	Yes	
	7/6/16	11.22am	90	25				35	5.4/302	Yes	
	7/6/16	7.50pm	30		37*			35	3.1/302	Yes	
	7/6/16	10.01pm	60			39*		35	3.0/287	Yes	
	7/6/16	10.01pm	60				43	45	3.0/287	Yes	
	8/6/16	10.10am	90	27				35	2.7/296	Yes	
	8/6/16	8.37pm	30		38*			35	1.3/26	Yes	
	8/6/16	10.04pm	60			<20		35	1.4/32	Yes	
	8/6/16	10.04pm	60				35	45	1.4/32	Yes	
	9/6/16	12.20pm	90	32				35	2.7/292	Yes	
	9/6/16	9.24pm	30		29			35	4.6/315	Yes	
	9/6/16	10.02pm	60			34		35	2.5/319	Yes	
	9/6/16	10.02pm	60				40	45	2.5/319	Yes	

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

*Project related land.

Table 5 – 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)	Date Obtained
TN3	6/6/16	3.55pm	90	<20				35	2.3/256	Yes	22/6/2016
	6/6/16	8.40pm	30		<20			35	2.7/307	Yes	
	6/6/16	11.18pm	60			<20		35	3.7/292	Yes	
	6/6/16	11.18pm	60				<20	45	3.7/292	Yes	
	7/6/16	9.35am	90	<20				35	4.8/305	Yes	
	7/6/16	8.31pm	30		<20			35	2.5/211	Yes	
	7/6/16	11.13pm	60			<20		35	2.0/309	Yes	
	7/6/16	11.13pm	60				<20	45	2.0/309	Yes	
	8/6/16	11.51am	90	<20				35	3.0/287	Yes	
	8/6/16	8.37pm	30		<20			35	1.5/35	Yes	
	8/6/16	11.13pm	60			26		35	1.6/35	Yes	
	8/6/16	11.13pm	60				33	45	1.6/35	Yes	
	9/6/16	12.50pm	90	<20				35	2.1/302	Yes	
	9/6/16	8.40pm	30		<20			35	4.2/313	Yes	
	9/6/16	10.03pm	60			<20		35	2.5/319	Yes	
	9/6/16	10.03pm	60				<20	45	2.5/319	Yes	

Table 6 – 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)	Date Obtained
TN4	6/6/16	2.13pm	90	<20				35	2.8/305	Yes	22/6/2016
	6/6/16	9.20pm	30		<20			35	2.9/309	Yes	
	7/6/16	12.29am	60			<20		35	3.5/297	Yes	
	7/6/16	12.29am	60				<20	45	3.5/297	Yes	
	7/6/16	1.09pm	90	<20				35	5.6/303	Yes	
	7/6/16	9.11pm	30		<20			35	3.4/302	Yes	
	8/6/16	12.22am	60			<20		35	1.1/17	Yes	
	8/6/16	12.22am	60				<20	45	1.1/17	Yes	
	8/6/16	8.24am	90	25				35	1.9/312	Yes	
	8/6/16	9.16pm	30		27			35	1.5/38	Yes	
	9/6/16	12.23am	60			28		35	0.7/61	Yes	
	9/6/16	12.23am	60				34	45	0.7/61	Yes	
	9/6/16	11.10am	90	<20				35	4.1/297	Yes	
	9/6/16	9.21pm	30		<20			35	4.7/314	Yes	
	9/6/16	11.14pm	60			<20		35	1.8/325	Yes	
	9/6/16	11.14pm	60				<20	45	1.8/325	Yes	

Table 7 – 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	Date Obtained
Tarrawonga	Blast Noise	dB (Lin Peak)	Every Blast	7	102.8	111.3	120	Nil	30/6/2016
	Blast Vibration	mm/s	Every Blast	4	0.20	0.39	10	Nil	30/6/2016

Figure 1 – EPL 12365 Onsite Monitoring Locations

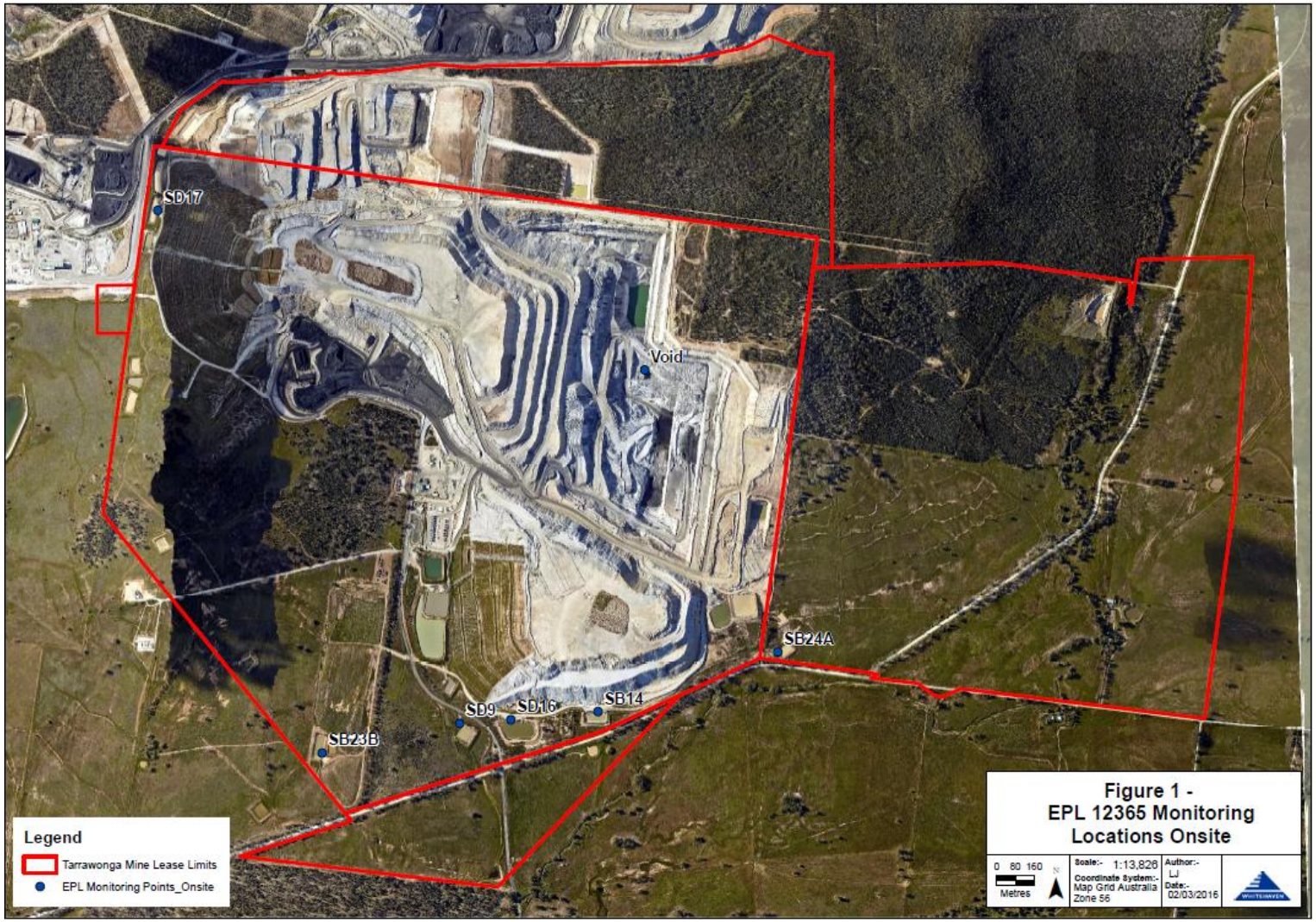
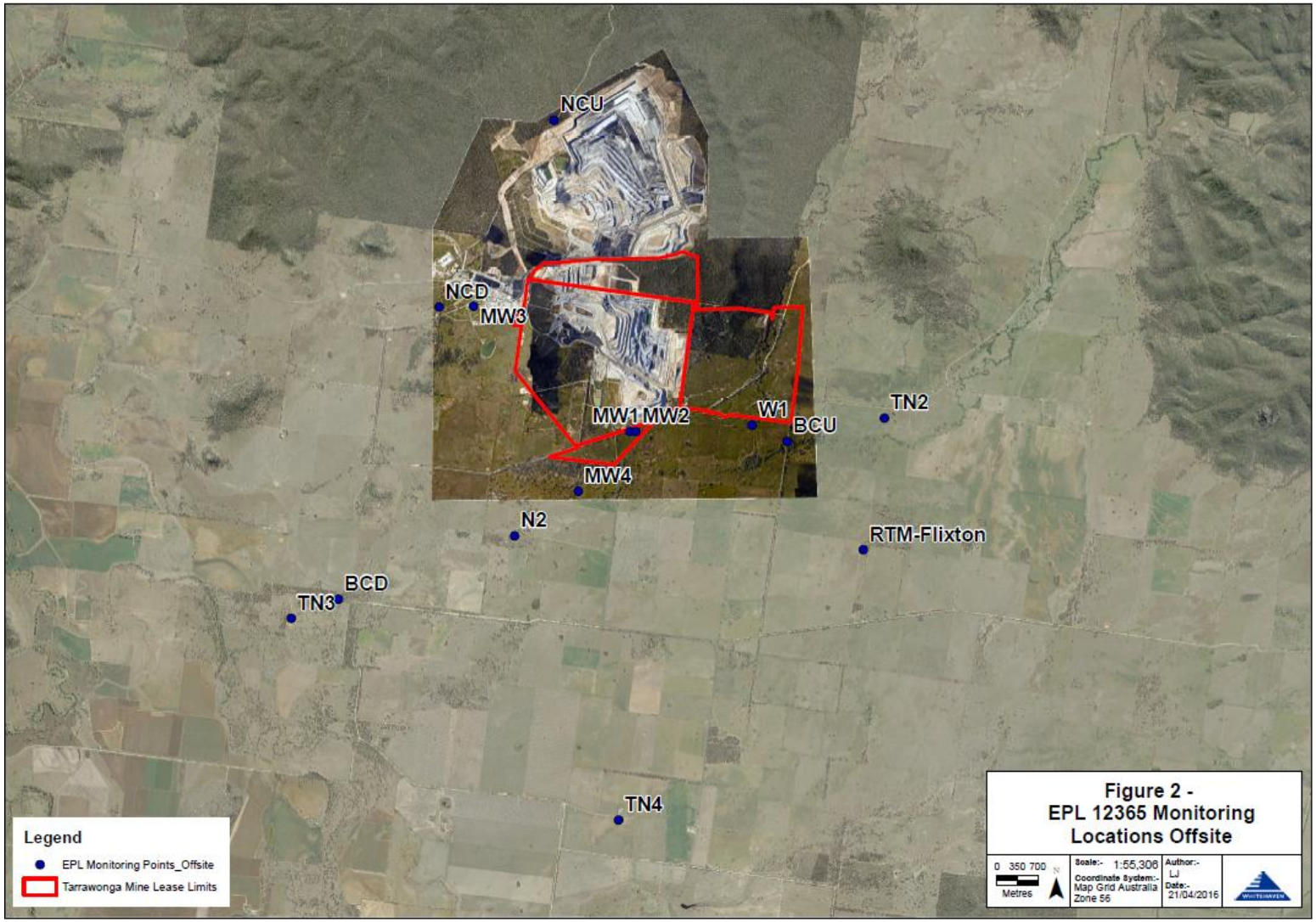


Figure 2 – EPL 12365 Offsite Monitoring Locations



TARRAWONGA COAL MINE – MONTHLY MONITORING SUMMARY

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
EPL Monitoring Points: See Figure 1 and 2 below
Sampling Period: July 2016
Obtained Date: 29 July 2016
Publication Date: 8 August 2016

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
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	1	21/7/2016	28/7/2016	-	-	-	168
	Conductivity	ms/cm		1	21/7/2016	28/7/2016	-	-	-	137
	Oil & Grease	mg/L		1	21/7/2016	28/7/2016	-	-	-	<5

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
	pH	pH		1	21/7/2016	28/7/2016	-	-	-	6.8

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	-	-	-	-		-	-
	Oil & Grease	mg/L		0	-	-	-	-		-	-
	pH	pH		0	-	-	-	-		-	-
2	TSS	mg/L	Upon discharge	0	-	-	-	-		-	-
	Oil & Grease	mg/L		0	-	-	-	-		-	-
	pH	pH		0	-	-	-	-		-	-
3	TSS	mg/L	Upon discharge	0	-	-	-	-		-	-
	Oil & Grease	mg/L		0	-	-	-	-		-	-
	pH	pH		0	-	-	-	-		-	-
24	TSS	mg/L	Upon discharge	0	-	-	-	-		-	-
	Oil & Grease	mg/L		0	-	-	-	-		-	-
	pH	pH		0	-	-	-	-		-	-
25	TSS	mg/L	Upon discharge	0	-	-	-	-		-	-
	Oil & Grease	mg/L		0	-	-	-	-		-	-
	pH	pH		0	-	-	-	-		-	-
26	TSS	mg/L	Upon discharge	0	-	-	-	-		-	-
	Oil & Grease	mg/L		0	-	-	-	-		-	-
	pH	pH		0	-	-	-	-		-	-
27	TSS	mg/L	Upon discharge	0	-	-	-	-		-	-
	Oil & Grease	mg/L		0	-	-	-	-		-	-
	pH	pH		0	-	-	-	-		-	-

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	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)	Date Obtained
TN2, TN3, TN4											N/A

Note: Measured noise 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	Date Obtained
Tarrawonga	Blast Noise	dB (Lin Peak)	Every Blast	8	104.09	115.3	120	Nil	29/7/2016
	Blast Vibration	mm/s	Every Blast	8	0.34	0.47	10	Nil	29/7/2016

Figure 1 – EPL 12365 Onsite Monitoring Locations

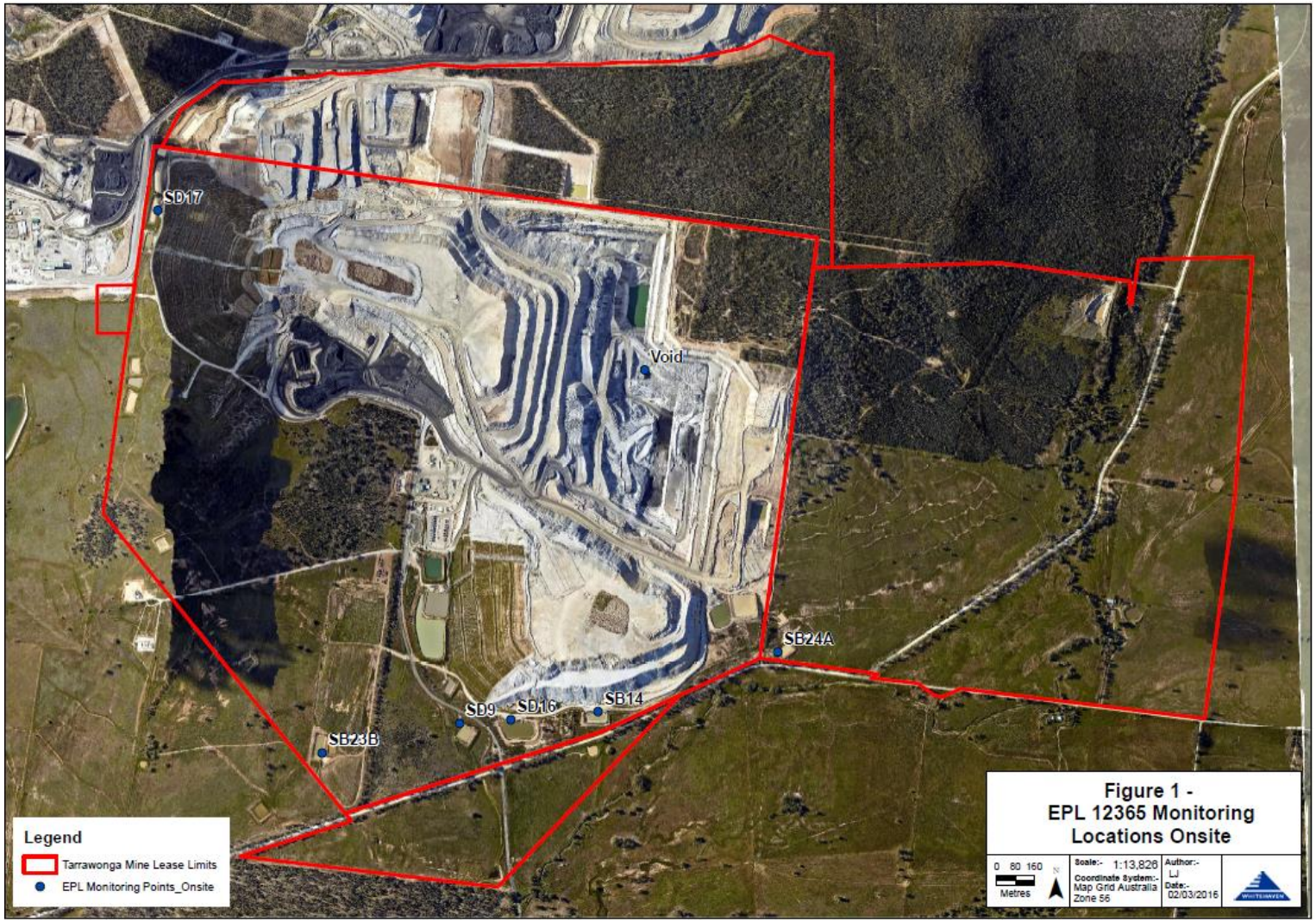
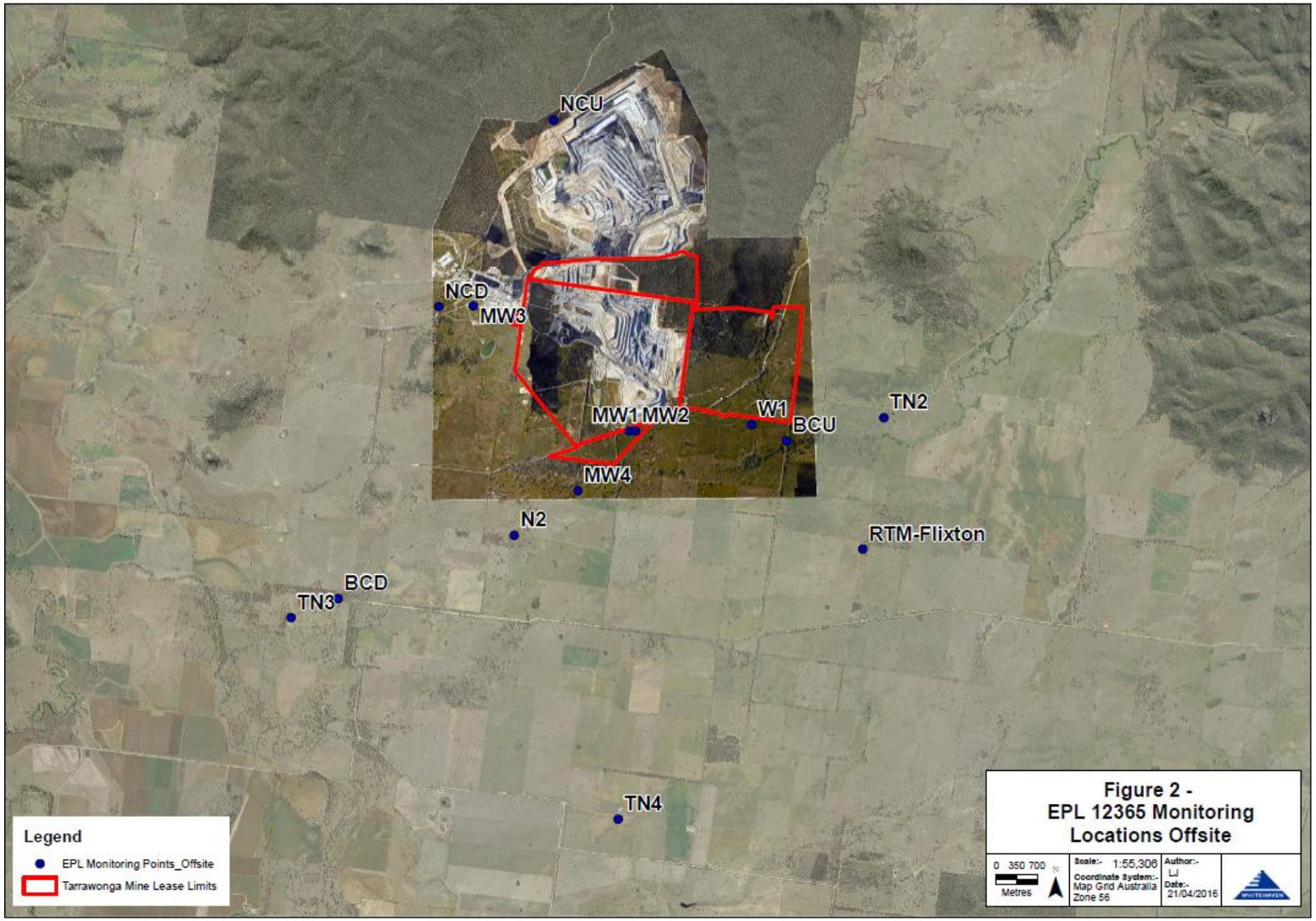


Figure 2 – EPL 12365 Offsite Monitoring Locations



TARRAWONGA COAL MINE – MONTHLY MONITORING SUMMARY

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
EPL Monitoring Points: See Figure 1 and 2 below
Sampling Period: August 2016
Obtained Date: 22 September 2016
Publication Date: 23 September 2016

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
5	TSS	mg/L	Upon discharge	2	4/8/16 25/8/16	12/8/16 31/8/16	70	-	-	186
	Conductivity	ms/cm		2	4/8/16 25/8/16	12/8/16 31/8/16	131	-	-	150
	Oil & Grease	mg/L		2	4/8/16 25/8/16	12/8/16 31/8/16	<5	-	-	<5
	pH	pH		2	4/8/16 25/8/16	12/8/16 31/8/16	7.19	-	-	7.29
6	TSS	mg/L	Upon discharge	2	3/8/16 24/8/16	9/8/16 30/8/16	45	-	-	54
	Conductivity	ms/cm		2	3/8/16 24/8/16	9/8/16 30/8/16	48	-	-	87
	Oil & Grease	mg/L		2	3/8/16 24/8/16	9/8/16 30/8/16	<5	-	-	<5
	pH	pH		2	3/8/16 24/8/16	9/8/16 30/8/16	6.97	-	-	7

WHITEHAVEN COAL

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	2	4/8/16 23/8/16	22/9/16	20	-	-	37
	Conductivity	ms/cm		2	4/8/16 23/8/16	22/9/16	75	-	-	125
	Oil & Grease	mg/L		2	4/8/16 23/8/16	22/9/16	<2	-	-	<5
	pH	pH		2	4/8/16 23/8/16	22/9/16	6.9	-	-	7.15
8	TSS	mg/L	Upon discharge	3	3/8/16 4/8/16 23/8/16	9/8/16 22/9/16	26	87	46	189
	Conductivity	ms/cm		3	3/8/16 4/8/16 23/8/16	9/8/16 22/9/16	109	141	142	171
	Oil & Grease	mg/L		3	3/8/16 4/8/16 23/8/16	9/8/16 22/9/16	<2	<5	<5	<5
	pH	pH		3	3/8/16 4/8/16 23/8/16	9/8/16 22/9/16	7	7.13	7.14	7.27

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	-	-	-	-		-	-
	Oil & Grease	mg/L		0	-	-	-	-		-	-
	pH	pH		0	-	-	-	-		-	-
2	TSS	mg/L	Upon discharge	0	-	-	-	-		-	-
	Oil & Grease	mg/L		0	-	-	-	-		-	-
	pH	pH		0	-	-	-	-		-	-
3	TSS	mg/L	Upon discharge	0	-	-	-	-		-	-
	Oil & Grease	mg/L		0	-	-	-	-		-	-
	pH	pH		0	-	-	-	-		-	-
24	TSS	mg/L	Upon discharge	0	-	-	-	-		-	-
	Oil & Grease	mg/L		0	-	-	-	-		-	-
	pH	pH		0	-	-	-	-		-	-
25	TSS	mg/L	Upon discharge	0	-	-	-	-		-	-
	Oil & Grease	mg/L		0	-	-	-	-		-	-
	pH	pH		0	-	-	-	-		-	-
26	TSS	mg/L	Upon discharge	0	-	-	-	-		-	-
	Oil & Grease	mg/L		0	-	-	-	-		-	-
	pH	pH		0	-	-	-	-		-	-
27	TSS	mg/L	Upon discharge	0	-	-	-	-		-	-
	Oil & Grease	mg/L		0	-	-	-	-		-	-
	pH	pH		0	-	-	-	-		-	-

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	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)	Date Obtained
TN2, TN3, TN4											N/A

Note: Measured noise 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	Date Obtained
Tarrawonga	Blast Noise	dB (Lin Peak)	Every Blast	7	101.54	121.2	120	Nil	31/8/2016
	Blast Vibration	mm/s	Every Blast	7	0.25	0.38	10	Nil	31/8/2016

Figure 1 – EPL 12365 Onsite Monitoring Locations

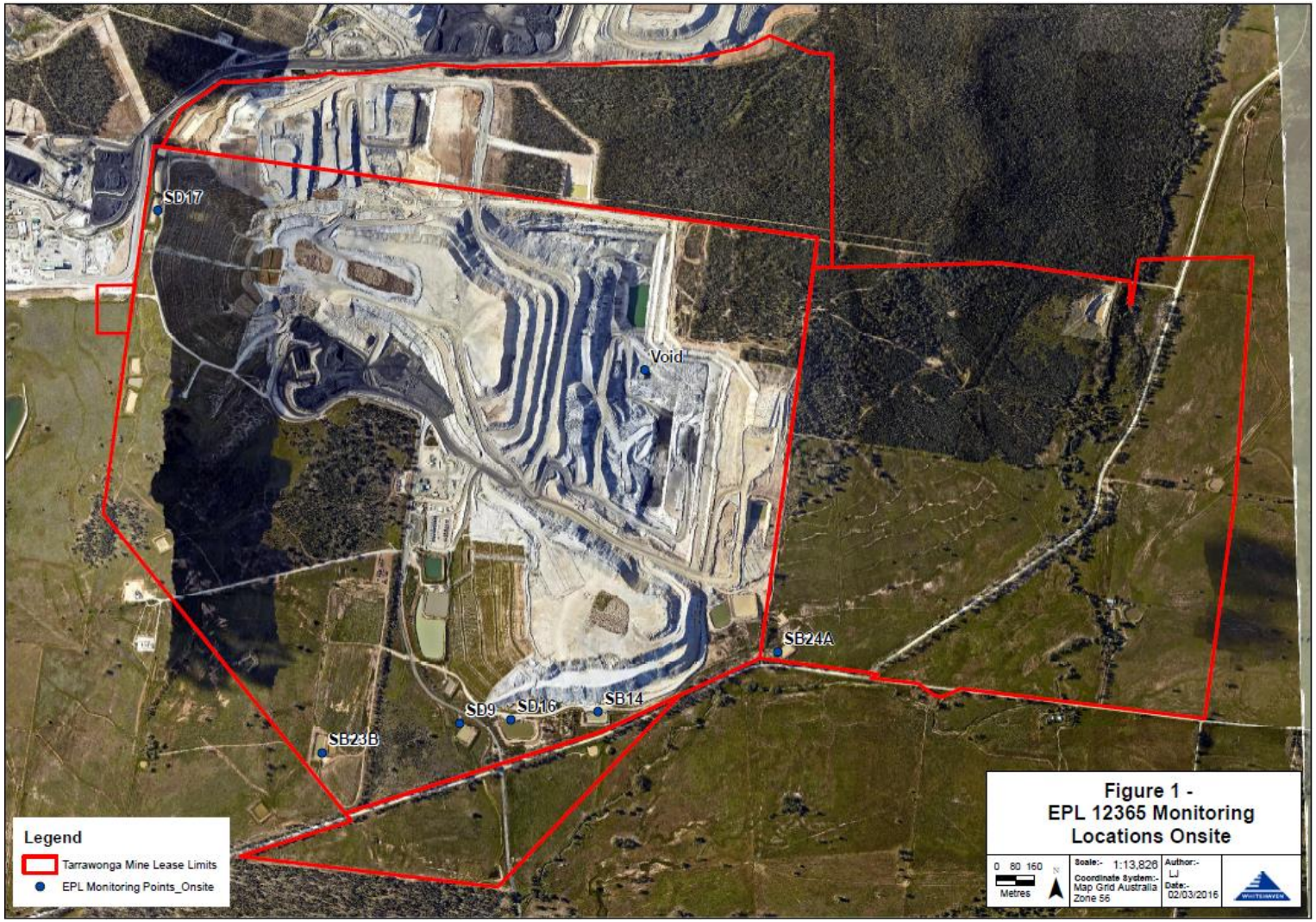
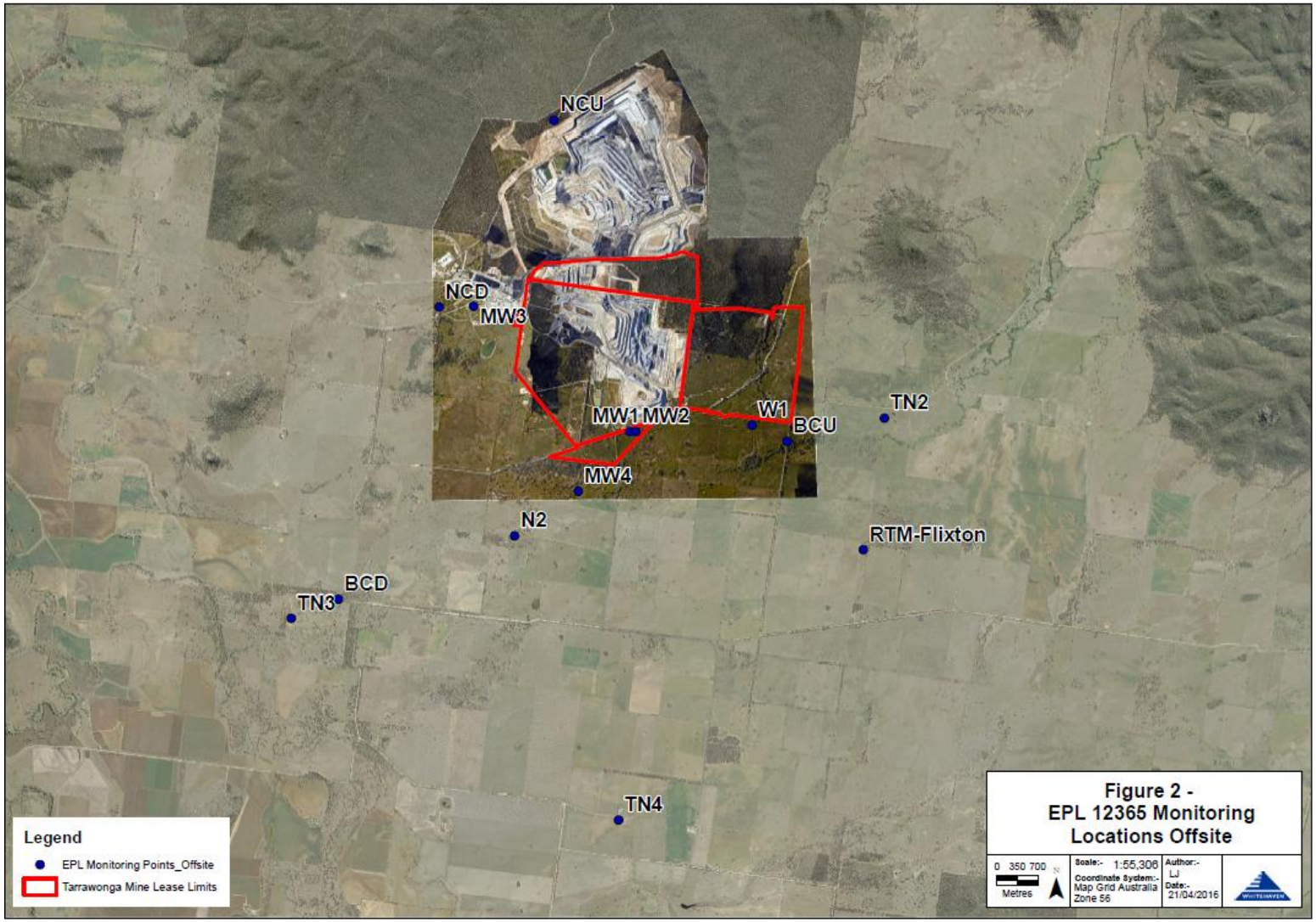


Figure 2 – EPL 12365 Offsite Monitoring Locations



TARRAWONGA COAL MINE – MONTHLY MONITORING SUMMARY

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
EPL Monitoring Points: See Figure 1 and 2 below
Sampling Period: September 2016
Obtained Date: 5 October 2016
Publication Date: 17 October 2016

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
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	-	-	-	-	-	-
				0	-	-	-	-	-	-
				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
				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	-	-	-	-		-	-
	Oil & Grease	mg/L		0	-	-	-	-		-	-
	pH	pH		0	-	-	-	-		-	-
2	TSS	mg/L	Upon discharge	0	-	-	-	-		-	-
	Oil & Grease	mg/L		0	-	-	-	-		-	-
	pH	pH		0	-	-	-	-		-	-
3	TSS	mg/L	Upon discharge	0	-	-	-	-		-	-
	Oil & Grease	mg/L		0	-	-	-	-		-	-
	pH	pH		0	-	-	-	-		-	-
24	TSS	mg/L	Upon discharge	0	-	-	-	-		-	-
	Oil & Grease	mg/L		0	-	-	-	-		-	-
	pH	pH		0	-	-	-	-		-	-
25	TSS	mg/L	Upon discharge	0	-	-	-	-		-	-
	Oil & Grease	mg/L		0	-	-	-	-		-	-
	pH	pH		0	-	-	-	-		-	-
26	TSS	mg/L	Upon discharge	0	-	-	-	-		-	-
	Oil & Grease	mg/L		0	-	-	-	-		-	-
	pH	pH		0	-	-	-	-		-	-
27	TSS	mg/L	Upon discharge	0	-	-	-	-		-	-
	Oil & Grease	mg/L		0	-	-	-	-		-	-
	pH	pH		0	-	-	-	-		-	-

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	1/9/2016	8/9/2016	-	-		3350
	Lead	mg/L		1	1/9/2016	8/9/2016	-	-		0.008
	pH	pH		1	1/9/2016	8/9/2016	-	-		8.00
	Standing Water Level	metres		1	1/9/2016	8/9/2016	-	-		6.67
10	Conductivity	ms/cm	6 monthly	1	1/9/2016	8/9/2016	-	-		557
	Lead	mg/L		1	1/9/2016	8/9/2016	-	-		0.007
	pH	pH		1	1/9/2016	8/9/2016	-	-		7.04
	Standing Water Level	metres		1	1/9/2016	8/9/2016	-	-		3.5
11	Conductivity	ms/cm	6 monthly	1	13/9/2016	5/10/2016	-	-		2060
	Lead	mg/L		1	13/9/2016	5/10/2016	-	-		<0.001
	pH	pH		1	13/9/2016	5/10/2016	-	-		8.0
	Standing Water Level	metres		1	13/9/2016	5/10/2016	-	-		8.9
12	Conductivity	ms/cm	6 monthly	1	7/9/2016	12/9/2016	-	-		4530
	Lead	mg/L		1	7/9/2016	12/9/2016	-	-		0.017
	pH	pH		1	7/9/2016	12/9/2016	-	-		7.5
	Standing Water Level	metres		1	7/9/2016	12/9/2016	-	-		9.05
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)	Date Obtained
TN2,	5/9/2016	11.27am	90	20				35	1.5/204	Yes	N/A
	5/9/2016	8.05pm	30		27			35	0.8/356	Yes	
	5/9/2016	10.17pm	60			35		35	2.2/36	Yes	
	5/9/2016	10.17pm	60				40	45	2.2/36	Yes	
	6/9/2016	10.11am	90	28				35	1.2/217	Yes	
	6/9/2016	8.26pm	30		<20			35	1.2/13	Yes	
	6/9/2016	11.11pm	60			28		35	0.9/32	Yes	
	6/9/2016	11.11pm	60				33	45	0.9/32	Yes	
	7/9/2016	9.58am	90	23				35	1.9/179	Yes	
	7/9/2016	7.58pm	30		20			35	0.4/57	Yes	
	8/9/2016	12.06am	60			<20		35	3.2/31	Yes	
	8/9/2016	12.06am	60				<20	45	3.2/31	Yes	
	8/9/2016	9.59am	90	27				35	2.9/28	Yes	
	8/9/2016	8.40pm	30		40			35	1.6/15	Yes[1]	
	8/9/2016	11.19pm	60			<20		35	2.6/17	Yes	
	8/9/2016	11.19pm	60				<20	45	2.6/17	Yes	

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

[1] Result measured on project related land.

Table 5 – 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)	Date Obtained
TN3	5/9/2016	3.13pm	90	<20				35	2.3/185	Yes	N/A
	5/9/2016	8.50pm	30		22			35	1.4/21	Yes	
	6/9/2016	12.46am	60			35		35	1.2/41	Yes	
	6/9/2016	12.46am	60				38	45	1.2/41	Yes	
	6/9/2016	8.22am	90	34				35	1.0/206	Yes	
	6/9/2016	7.03pm	30		<20			35	1.7/25	Yes	
	7/9/2016	12.59am	60			37		35	0.9/98	No	
	7/9/2016	12.59am	60				43	45	0.9/98	Yes	
	7/9/2016	8.14am	90	30				35	1.2/205	Yes	
	7/9/2016	7.16pm	30		25			35	1.2/47	Yes	
	7/9/2016	10.00pm	60			32		35	1.5/30	Yes	
	7/9/2016	10.00pm	60				38	45	1.5/30	Yes	
	8/9/2016	8.44am	90	<20				35	4.0/35	Yes	
	8/9/2016	7.18pm	30		34			35	1.1/27	Yes	
	8/9/2016	10.03pm	60			33		35	2.4/13	Yes	
	8/9/2016	10.03pm	60				37	45	2.4/13	Yes	

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

Table 6 – 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)	Date Obtained
TN4	5/9/2016	1.15pm	90	<20				35	1.7/144	Yes	21/9/2016
	5/9/2016	9.29pm	30		27			35	1.6/32	Yes	
	5/9/2016	11.37pm	60			26		35	0.9/41	Yes	
	5/9/2016	11.37pm	60				29	45	0.9/41	Yes	
	6/9/2016	11.58am	90	<20				35	1.9/215	Yes	
	6/9/2016	9.12pm	30		27			35	1.6/32	Yes	
	7/9/2016	12.31am	60			29		35	1.0/195	Yes	
	7/9/2016	12.31am	60				35	45	1.0/195	Yes	
	7/9/2016	1.27pm	90	<20				35	2.4/150	Yes	
	7/9/2016	9.18pm	30		28			35	1.2/28	Yes	
	8/9/2016	1.30am	60			32		35	2.1/20	Yes	
	8/9/2016	1.30am	60				35	45	2.1/20	Yes	
	8/9/2016	10.12am	90	<20				35	2.7/80	Yes	
	8/9/2016	7.56pm	30		32			35	1.2/12	Yes	
	9/9/2016	1.42am	60			32		35	4.0/29	Yes	
	9/9/2016	1.42am	60				36	45	4.0/29	Yes	

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

Table 7 – 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	Date Obtained
Tarrawonga	Blast Noise	dB (Lin Peak)	Every Blast	9	103.1	124.2[1]	120	Nil	28/9/2016
	Blast Vibration	mm/s	Every Blast	9	0.30	0.66	10	Nil	28/9/2016

[1] Result measured on project related land.

Figure 1 – EPL 12365 Onsite Monitoring Locations

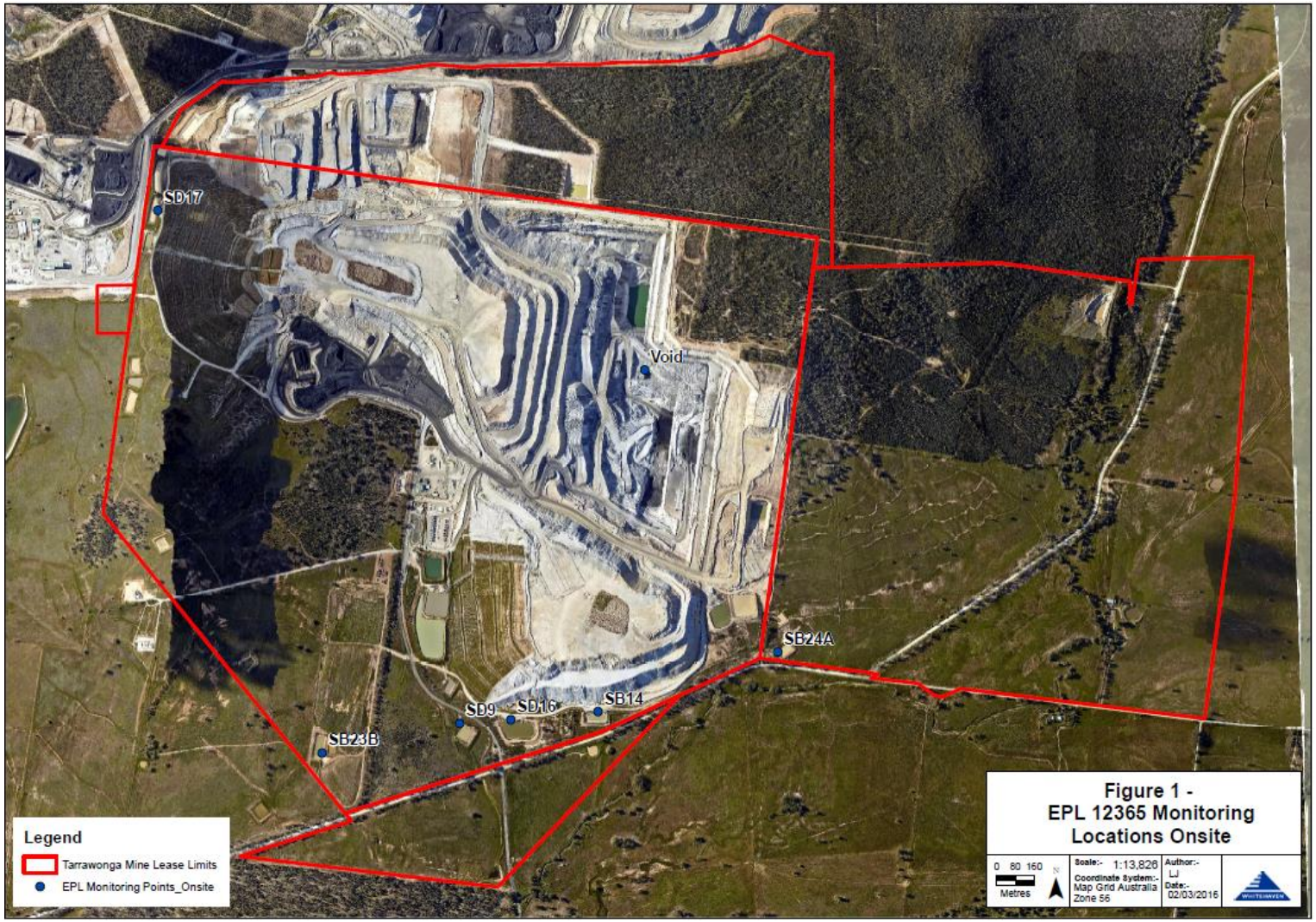
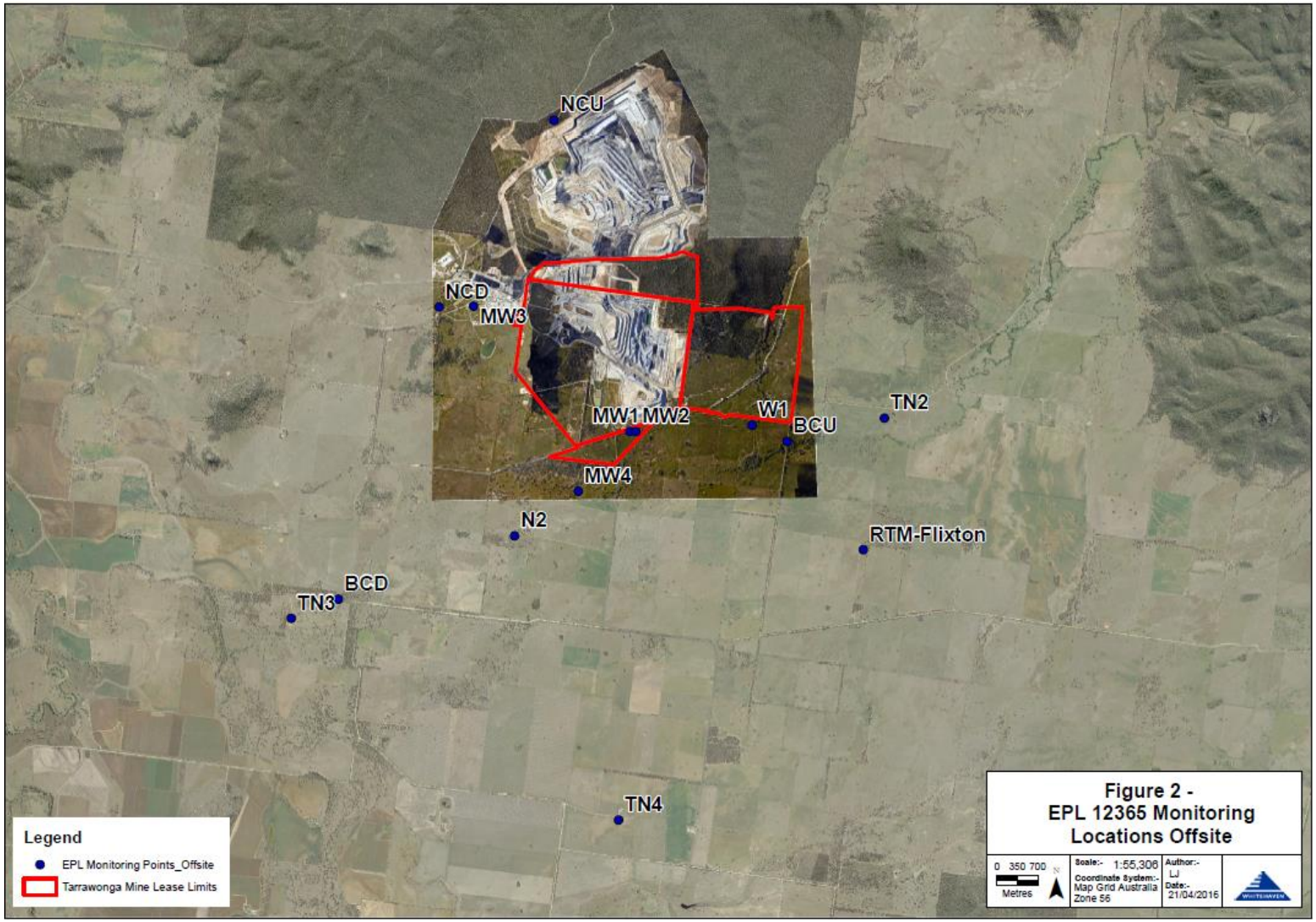


Figure 2 – EPL 12365 Offsite Monitoring Locations



TARRAWONGA COAL MINE – MONTHLY MONITORING SUMMARY

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
EPL Monitoring Points: See Figure 1 and 2 below
Sampling Period: October 2016
Obtained Date: 4 November 2016
Publication Date: 9 November 2016

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
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	-	-	-	-	-	-
				0	-	-	-	-	-	-
				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
				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	-	-	-	-		-	-
	Oil & Grease	mg/L		0	-	-	-	-		-	-
	pH	pH		0	-	-	-	-		-	-
2	TSS	mg/L	Upon discharge	0	-	-	-	-		-	-
	Oil & Grease	mg/L		0	-	-	-	-		-	-
	pH	pH		0	-	-	-	-		-	-
3	TSS	mg/L	Upon discharge	0	-	-	-	-		-	-
	Oil & Grease	mg/L		0	-	-	-	-		-	-
	pH	pH		0	-	-	-	-		-	-
24	TSS	mg/L	Upon discharge	0	-	-	-	-		-	-
	Oil & Grease	mg/L		0	-	-	-	-		-	-
	pH	pH		0	-	-	-	-		-	-
25	TSS	mg/L	Upon discharge	0	-	-	-	-		-	-
	Oil & Grease	mg/L		0	-	-	-	-		-	-
	pH	pH		0	-	-	-	-		-	-
26	TSS	mg/L	Upon discharge	0	-	-	-	-		-	-
	Oil & Grease	mg/L		0	-	-	-	-		-	-
	pH	pH		0	-	-	-	-		-	-
27	TSS	mg/L	Upon discharge	0	-	-	-	-		-	-
	Oil & Grease	mg/L		0	-	-	-	-		-	-
	pH	pH		0	-	-	-	-		-	-

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	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)	Date Obtained
TN2, TN3, TN4			90								No monitoring
			30								
			60								
			60								
			90								
			30								
			60								
			60								
			90								
			30								
			60								
			60								
			90								
			30								
			60								
			60								

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

Table 7 – 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	Date Obtained
Tarrawonga	Blast Noise	dB (Lin Peak)	Every Blast	7	98.0	100.7	120	Nil	4/11/2016
	Blast Vibration	mm/s	Every Blast	7	0.30	0.66	10	Nil	4/11/2016

Figure 1 – EPL 12365 Onsite Monitoring Locations

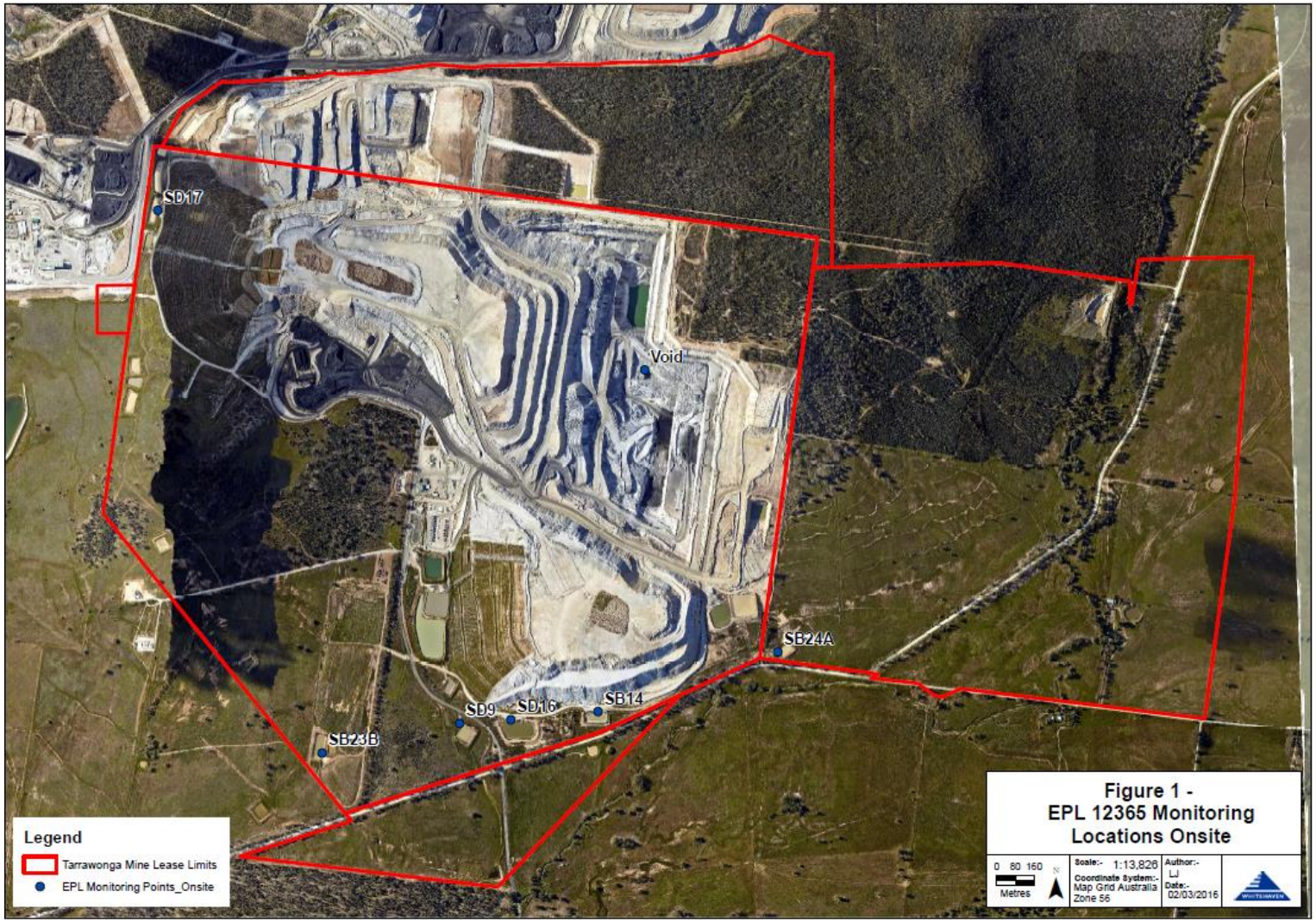
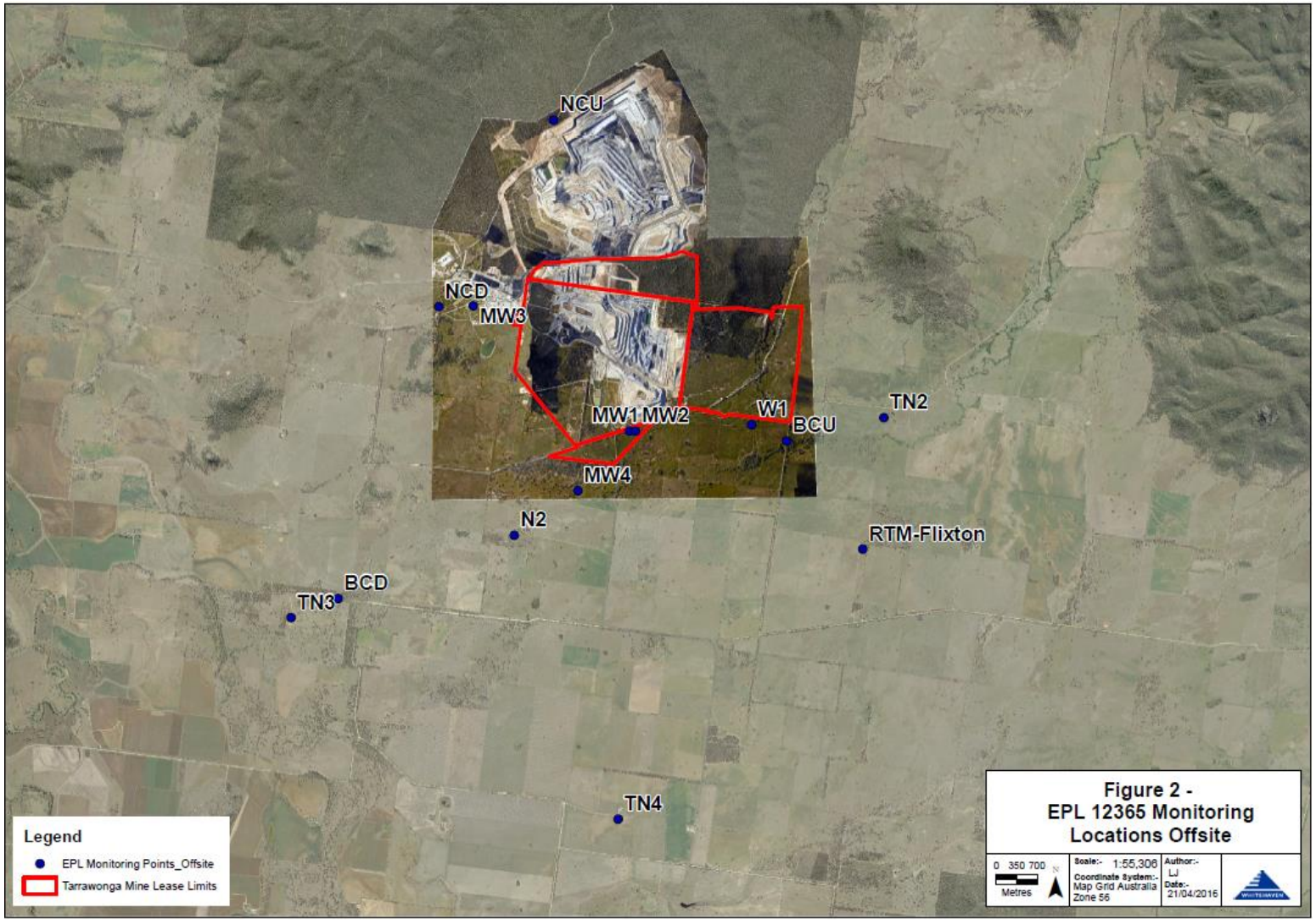


Figure 2 – EPL 12365 Offsite Monitoring Locations



TARRAWONGA COAL MINE – MONTHLY MONITORING SUMMARY

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
EPL Monitoring Points: See Figure 1 and 2 below
Sampling Period: November 2016
Obtained Date: 25 November 2016
Publication Date: 8 December 2016

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
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	-	-	-	-	-	-

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

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	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	15/11/2016	22/11/2016	-	-		3000
	Oil & Grease	mg/L		1	15/11/2016	22/11/2016	-	-		<5
	pH	pH		1	15/11/2016	22/11/2016	-	-		8.6
	TSS	mg/L		1	15/11/2016	22/11/2016	-	-		6

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)	Date Obtained
TN2, TN3, TN4			90								No monitoring
			30								
			60								
			60								
			90								
			30								
			60								
			60								
			90								
			30								
			60								
			60								
			90								
			30								
			60								
			60								

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

Table 7 – 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	Date Obtained
Tarrawonga	Blast Noise	dB (Lin Peak)	Every Blast	5	100.5	108.2	120	Nil	25/11/2016
	Blast Vibration	mm/s	Every Blast	5	0.26	0.66	10	Nil	25/11/2016

Figure 1 – EPL 12365 Onsite Monitoring Locations

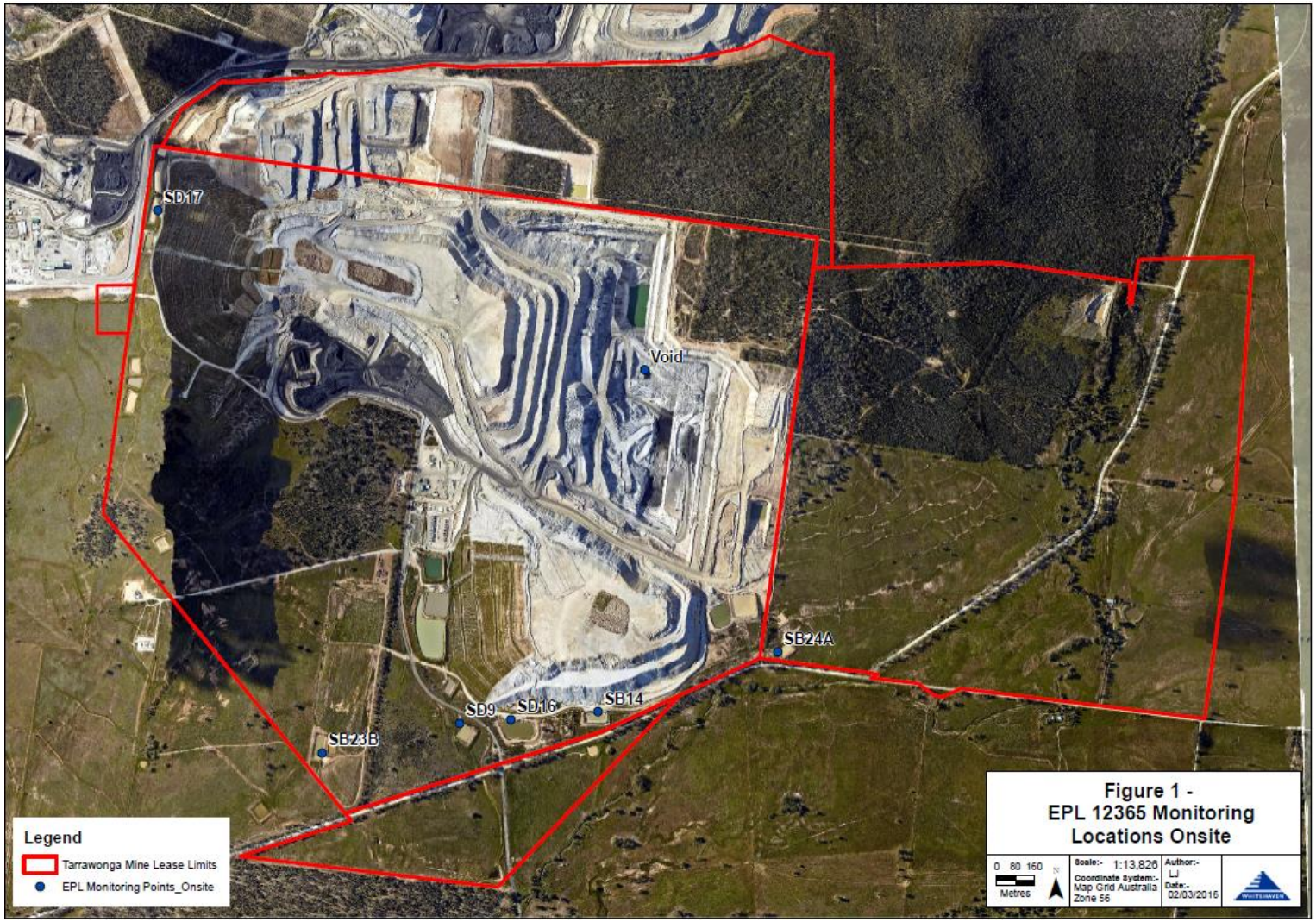
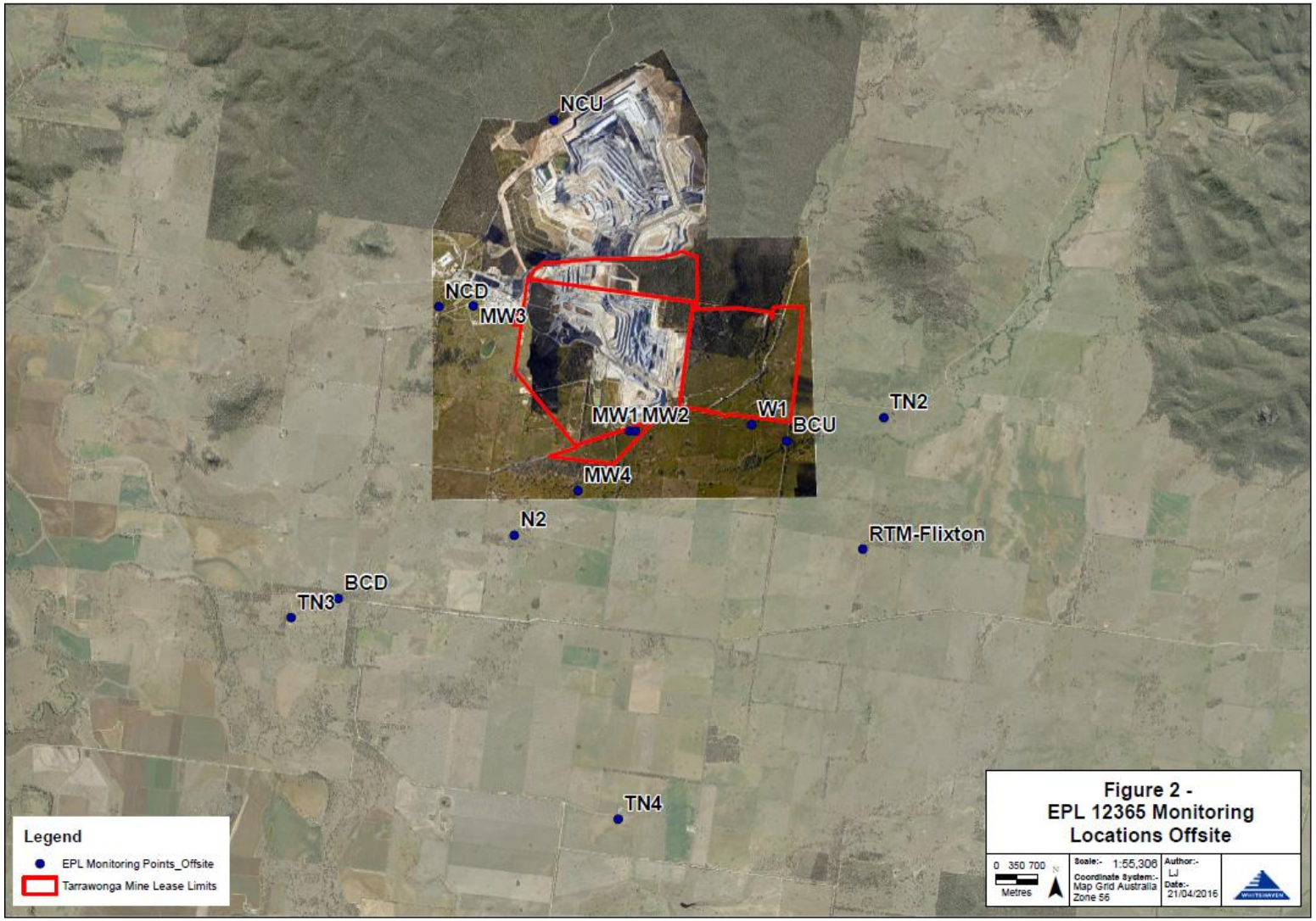


Figure 2 – EPL 12365 Offsite Monitoring Locations



TARRAWONGA COAL MINE – MONTHLY MONITORING SUMMARY

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
EPL Monitoring Points: See Figure 1 and 2 below
Sampling Period: December 2016
Obtained Date: 6 January 2017
Publication Date: 10 January 2017

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
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	-	-	-	-	-	-

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

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	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 (m/s)	Stability Category	Compliant (Yes/No)	Date Obtained
TN2	5/12/16	20.39	30		IA			35	2.5	E	Yes	6/1/2017
	5/12/16	22.48	60			<20		35	0	G	N/A	
	5/12/16	22.15	60				30	45	0.8	F	Yes	
	6/12/16	13.42	90	36				35	4.8	A	N/A	
	6/12/16	17.35	30		32			35	0.5	D	Yes	
	6/12/16	22.38	60			<25		35	0.9	F	Yes	
	6/12/16	22.00	60				30	45	0.6	F	Yes	
	7/12/16	13.01	90	28				35	1.6	A	Yes	
	7/12/16	20.16	30		IA			35	2.3	E	Yes	
	7/12/16	22.00	60			IA		35	1.3	E	Yes	
	7/12/16	22.16	60				IA	45	1.0	F	Yes	
	8/12/16	10.33	90	33				35	0.5	A	Yes	

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

IA – Inaudible

Table 5 – 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 (m/s)	Stability Category	Compliant (Yes/No)	Date Obtained
TN3	5/12/16	18.35	30		IA			35	4.4	D	N/A	6/1/2017
	6/12/16	1.33	60			26		35	1.7	E	Yes	
	6/12/16	1.33	60				33	45	1.7	E	Yes	
	6/12/16	17.04	90	IA				35	2.5	D	Yes	
	6/12/16	18.21	30		IA			35	1.9	D	Yes	
	7/12/16	1.41	60			IA		35	0.7	F	Yes	
	7/12/16	1.25	60				IA	45	0.7	F	Yes	
	7/12/16	14.40	90	IA				35	1.9	A	Yes	
	7/12/16	18.42	30		IA			35	1.9	D	Yes	
	8/12/16	1.09	60			IA		35	1.4	E	Yes	
	8/12/16	1.25	60				IA	45	1.2	E	Yes	
	8/12/16	14.26	90	IA				35	2.7	A	Yes	

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

IA – Inaudible

Table 6– 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 (m/s)	Stability Category	Compliant (Yes/No)	Date Obtained
TN4	5/12/16	19.21	30		IA			35	2.5	D	Yes	6/1/2017
	5/12/16	23.49	60			IA		35	1.6	E	Yes	
	5/1216	23.49	60				IA	45	1.6	E	Yes	
	6/12/16	15.06	90	IA				35	1.5	A	Yes	
	6/12/16	19.04	30		IA			35	1.3	E	Yes	
	6/12/16	23.40	60			IA		35	2.4	D	Yes	
	6/12/16	23.40	60				IA	45	2.4	D	Yes	
	7/12/16	10.11	90	IA				35	1.0	A	Yes	
	7/12/16	19.23	30		IA			35	2.1	D	Yes	
	7/12/16	23.55	60				IA	45	0.9	F	Yes	
	8/12/16	00.14	60			IA		35	3	E	Yes	
	8/12/16	08.08	90	IA				35	0.4	A	Yes	

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

IA – Inaudible

Table 7 – 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	Date Obtained
Tarrawonga	Blast Noise	dB (Lin Peak)	Every Blast	7	97.2	103.0	120	Nil	30/12/2016
	Blast Vibration	mm/s	Every Blast	7	0.17	0.41	10	Nil	30/12/2016

Figure 1 – EPL 12365 Onsite Monitoring Locations

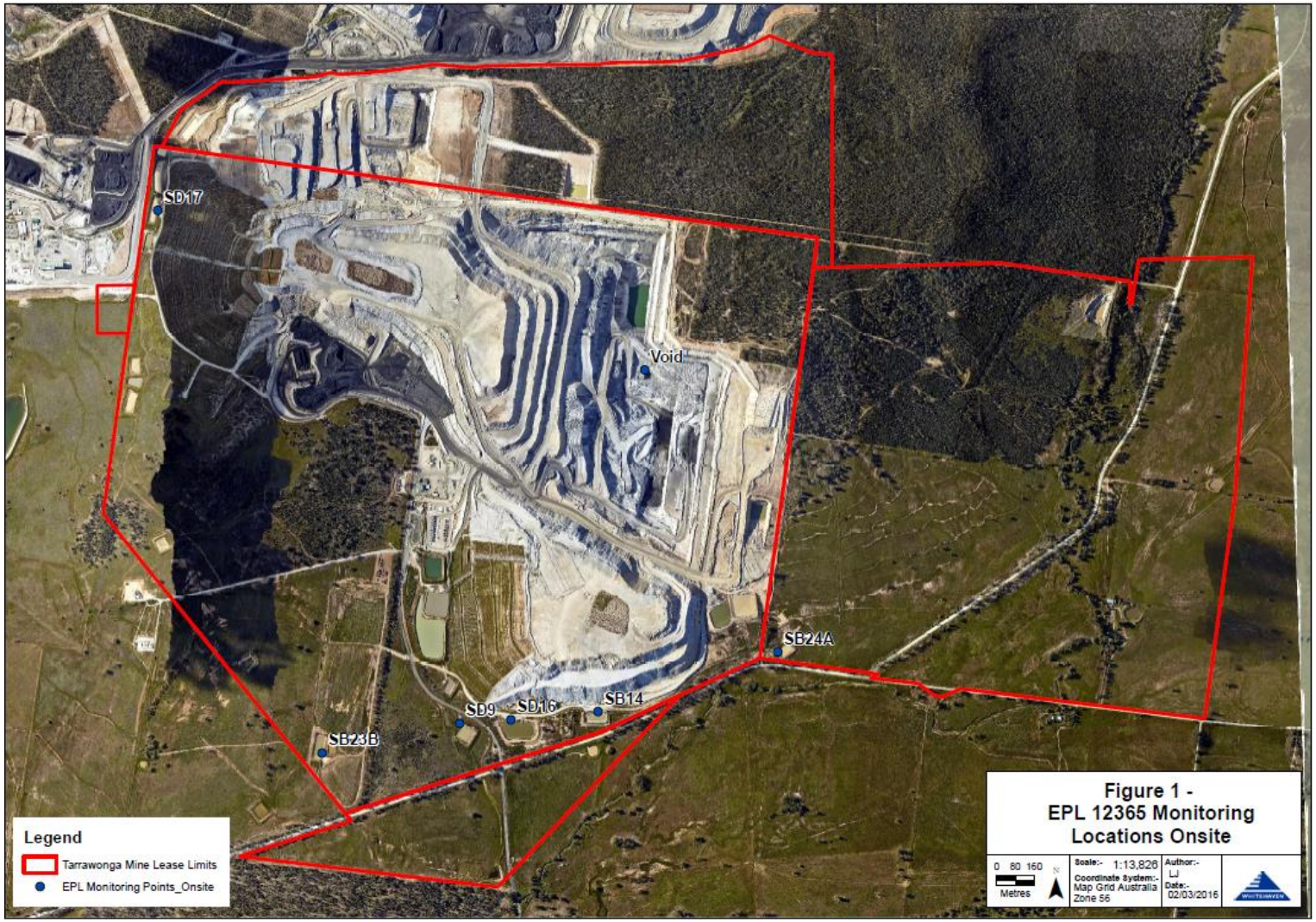
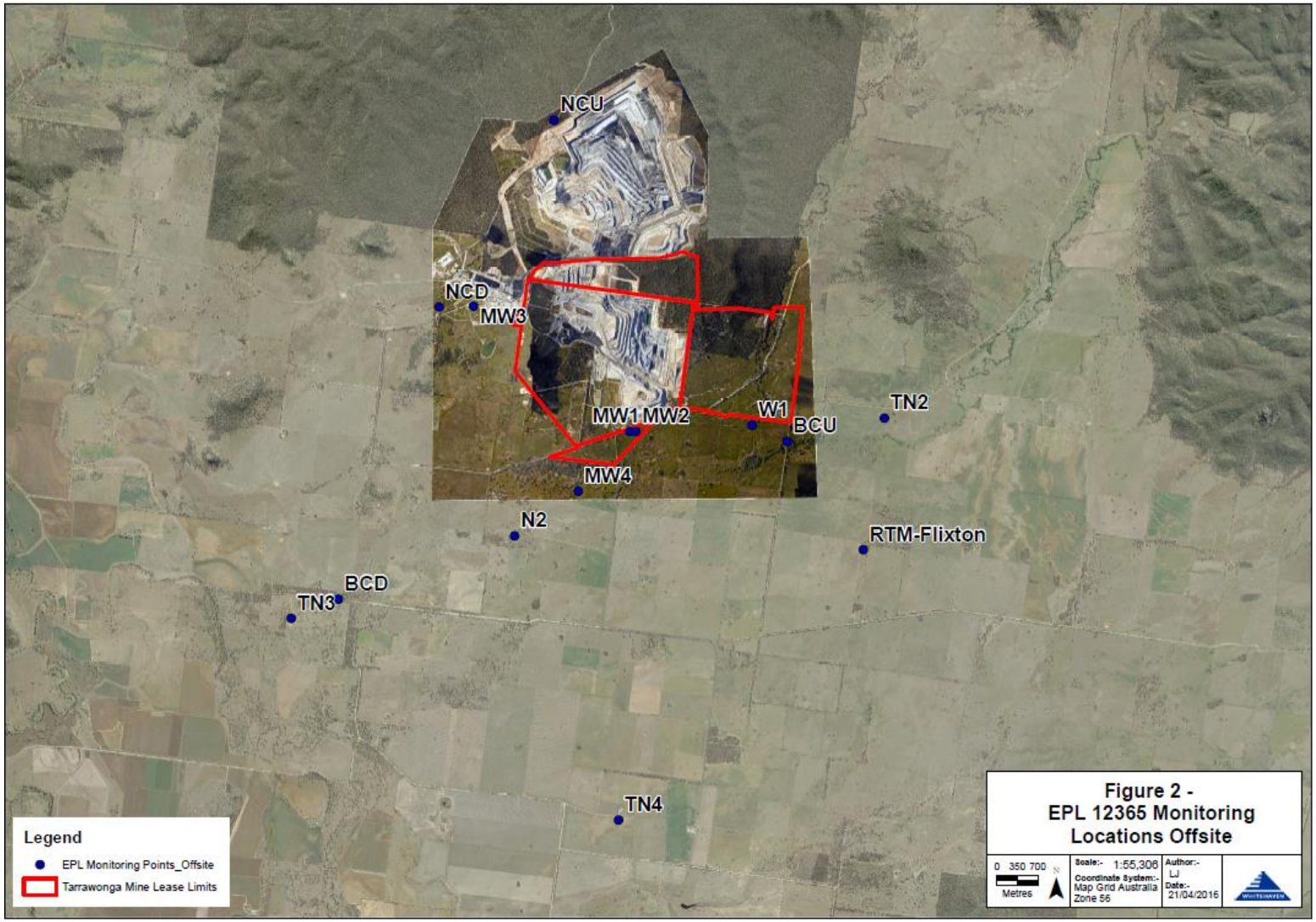



Figure 2 – EPL 12365 Offsite Monitoring Locations