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: September 2020
Obtained Date: 8/02/2021
Publication Date:

Table 1 - No Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date of Max. Value Obtained	Min Value	Mean Value	Median Value	Max or Only Value	Comments
5	TSS	mg/L	Upon discharge	0	-	-	-	-	-	-	-
	Conductivity	µS/cm		0	-	-	-	-	-	-	-
	Oil & Grease	mg/L		0	-	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-	-
6	TSS	mg/L	Upon discharge	0	-	-	-	-	-	-	-
	Conductivity	µS/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 of Max. Value Obtained	Min Value	Max or Only Value	100%ile Limit	Exceed -ance (Yes/ No)	Comment/s
1	TSS	mg/L	Upon discharge	0	-	-	-	-	-	-	-
	Conductivity	µS/cm		0	-	-	-	-	-	-	-
	Oil & Grease	mg/L		0	-	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-	-
2	TSS	mg/L	Upon discharge	0	-	-	-	-	-	-	-
	Conductivity	µS/cm		0	-	-	-	-	-	-	-
	Oil & Grease	mg/L		0	-	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-	-
3	TSS	mg/L	Upon discharge	0	-	-	-	-	-	-	-
	Conductivity	µS/cm		0	-	-	-	-	-	-	-
	Oil & Grease	mg/L		0	-	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-	-
24	TSS	mg/L	Upon discharge	0	-	-	-	-	-	-	-
	Conductivity	µS/cm		0	-	-	-	-	-	-	-
	Oil & Grease	mg/L		0	-	-	-	-	-	-	-

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date of Max. Value Obtained	Min Value	Max or Only Value	100%ile Limit	Exceed -ance (Yes/ No)	Comment/s
	pH	pH		0	-	-	-	-	-	-	-
26	TSS	mg/L	Upon discharge	0	-	-	-	-	-	-	-
	Conductivity	µS/cm		0	-	-	-	-	-	-	-
	Oil & Grease	mg/L		0	-	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-	-
27	TSS	mg/L	Upon discharge	0	-	-	-	-	-	-	-
	Conductivity	µS/cm		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 of Max. Value Obtained	Min Value	Mean Value	Median Value	Max or Only Value
9	Conductivity	µS/cm	6 monthly – (Mar- Sep)	0	-	-	-	-	-	-
	Lead	mg/L		0	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-
	Standing Water Level	metres		0	-	-	-	-	-	-
10	Conductivity	µS/cm	6 monthly – (Mar- Sep)	0	-	-	-	-	-	-
	Lead	mg/L		0	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-
	Standing Water Level	metres		0	-	-	-	-	-	-
12	Conductivity	µS/cm	6 monthly – (Mar- Sep)	0	-	-	-	-	-	-
	Lead	mg/L		0	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-
	Standing Water Level	metres		0	-	-	-	-	-	-
13	Conductivity	µS/cm	Quarterly - (Feb, May, Aug, Nov)	0	-	-	-	-	-	-
	Oil & Grease	mg/L		0	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-
	TSS	mg/L		0	-	-	-	-	-	-

Table 4 – Quarterly Attended Noise Monitoring

(Noise Limits Apply -35dB LAeq(15min) -Day, Evening and Night;45dB LA1(1min) -Night)

No Noise Monitoring data reported for January

Table 5 – Monthly Monitoring (Blasts – Limits Apply)

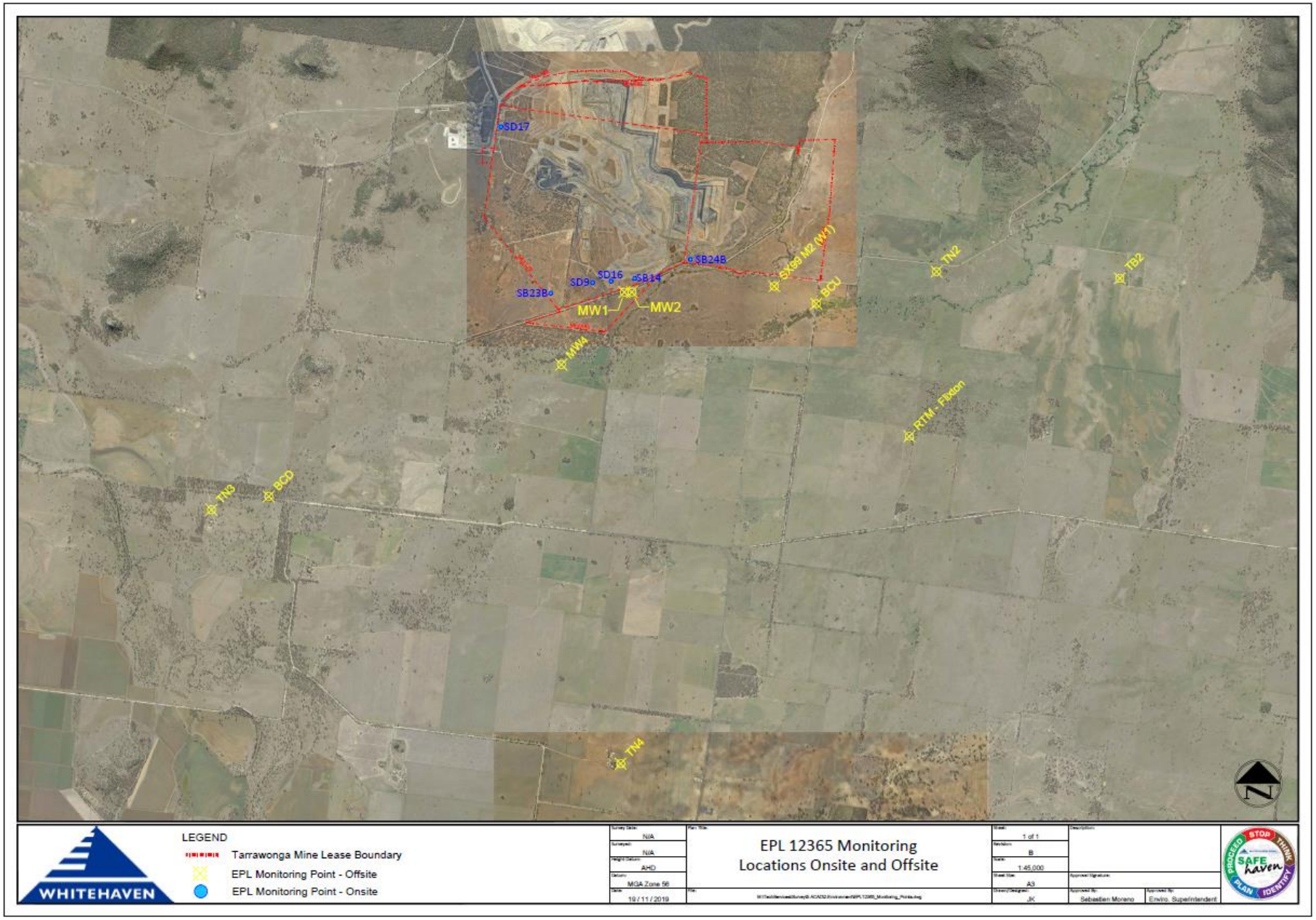
Location	Parameter	Units of Measure	Frequency	No. of Blasts for the Month	Average Value	Max Value	100%ile Limit	(Potential) Non-compliance /breach	Date of Max. Value Obtained
Coomalgah (TB2)	**Blast Noise**	**dB (Lin Peak)**	**Every Blast**	6	96.23	104.20	**120**	**Nil**	15/01/2021
	Blast Vibration	**mm/s**	**Every Blast**	6	0.12	0.26	**10**	**Nil**	29/01/2021

Table 6- Monthly Monitoring (Dust PM10 – No Limits apply)

Location	No. of samples required by licence	Lowest sample value	Mean of sample	Highest sample value
"Flixton" property* TEOM (µg/m^3)	Continuous	12.7	18.2	23.9

*****_Mine owned property – no limit apply_

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: February 2021
Obtained Date: 9/03/2021
Publication Date: 12/03/2021

Table 1 - No Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date of Max. Value Obtained	Min Value	Mean Value	Median Value	Max or Only Value	Comments
5	TSS	mg/L	Upon discharge	0	-	-	-	-	-	-	-
	Conductivity	µS/cm		0	-	-	-	-	-	-	-
	Oil & Grease	mg/L		0	-	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-	-
6	TSS	mg/L	Upon discharge	0	-	-	-	-	-	-	-
	Conductivity	µS/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 of Max. Value Obtained	Min Value	Max or Only Value	100%ile Limit	Exceed -ance (Yes/ No)	Comment/s
1	TSS	mg/L	Upon discharge	0	-	-	-	-	-	-	-
	Conductivity	µS/cm		0	-	-	-	-	-	-	-
	Oil & Grease	mg/L		0	-	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-	-
2	TSS	mg/L	Upon discharge	0	-	-	-	-	-	-	-
	Conductivity	µS/cm		0	-	-	-	-	-	-	-
	Oil & Grease	mg/L		0	-	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-	-
3	TSS	mg/L	Upon discharge	1	25.02.21	-	-	482	50	-	Limit does not apply due to discharge occurring after 42mm
	Conductivity	µS/cm		1	25.02.21	-	-	222	NA	-	-
	Oil & Grease	mg/L		1	25.02.21	-	-	<5	<10	-	-
	pH	pH		1	25.02.21	-	-	7.22	6.5-8.5	-	-
24	TSS	mg/L	Upon discharge	0	-	-	-	-	-	-	-
	Conductivity	µS/cm		0	-	-	-	-	-	-	-

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date of Max. Value Obtained	Min Value	Max or Only Value	100%ile Limit	Exceed -ance (Yes/ No)	Comment/s
	Oil & Grease	mg/L		0	-	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-	-
26	TSS	mg/L	Upon discharge	0	-	-	-	-	-	-	-
	Conductivity	µS/cm		0	-	-	-	-	-	-	-
	Oil & Grease	mg/L		0	-	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-	-
27	TSS	mg/L	Upon discharge	0	-	-	-	-	-	-	-
	Conductivity	µS/cm		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 of Max. Value Obtained	Min Value	Mean Value	Median Value	Max or Only Value
9	Conductivity	µS/cm	6 monthly – (Mar- Sep)	0	-	-	-	-	-	-
	Lead	mg/L		0	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-
	Standing Water Level	metres		0	-	-	-	-	-	-
10	Conductivity	µS/cm	6 monthly – (Mar- Sep)	0	-	-	-	-	-	-
	Lead	mg/L		0	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-
	Standing Water Level	metres		0	-	-	-	-	-	-
12	Conductivity	µS/cm	6 monthly – (Mar- Sep)	0	-	-	-	-	-	-
	Lead	mg/L		0	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-
	Standing Water Level	metres		0	-	-	-	-	-	-
13	Conductivity	µS/cm	Quarterly - (Feb, May, Aug, Nov)	1	12.02.21	-	-	-	-	2,040
	Oil & Grease	mg/L		1	12.02.21	-	-	-	-	<5
	pH	pH		1	12.02.21	-	-	-	-	8.60
	TSS	mg/L		1	12.02.21	-	-	-	-	42

Table 4 – Quarterly Attended Noise Monitoring

(Noise Limits Apply -35dB LAeq(15min) -Day, Evening and Night;45dB LA1(1min) -Night)

No Noise Monitoring data reported for February

Table 5 – Monthly Monitoring (Blasts – Limits Apply)

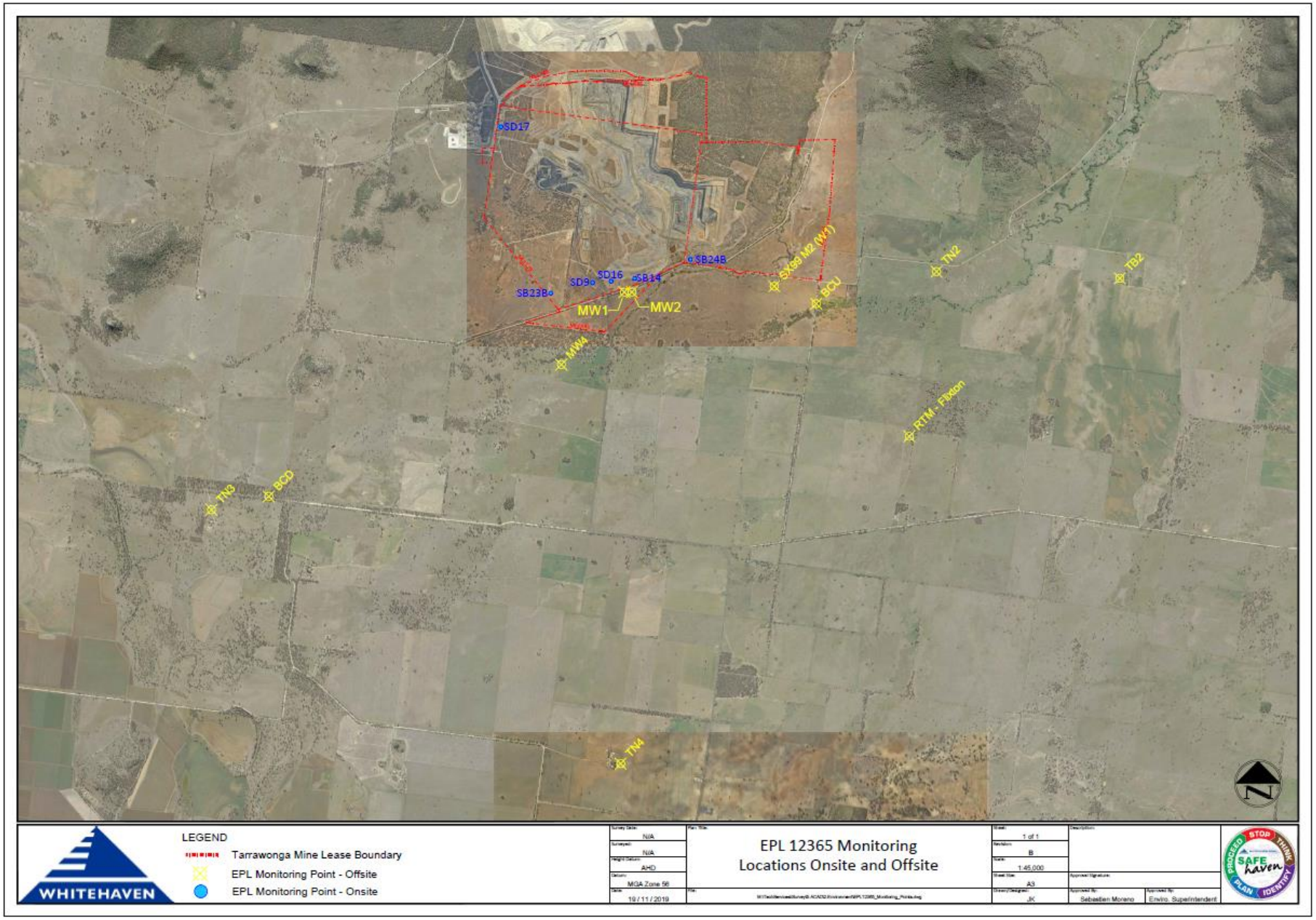
Location	Parameter	Units of Measure	Frequency	No. of Blasts for the Month	Average Value	Max Value	100%ile Limit	(Potential) Non-compliance /breach	Date of Max. Value Obtained
Coomalgah (TB2)	**Blast Noise**	**dB (Lin Peak)**	**Every Blast**	4	93.7	103.40	**120**	**Nil**	19.02.21
	Blast Vibration	**mm/s**	**Every Blast**	4	0.3	0.49	**10**	**Nil**	19.02.21

Table 6- Monthly Monitoring (Dust PM10 – No Limits apply)

Location	No. of samples required by licence	Lowest sample value	Mean of sample	Highest sample value
"Flixton" property* TEOM ($\mu g/m^3$)	Continuous	0	11.5	23.9

*****_Mine owned property – no limit apply_

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: March 2021
Obtained Date: 9/04/2021
Publication Date: 15/04/2021

Table 1 - No Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date of Max. Value Obtained	Min Value	Mean Value	Median Value	Max or Only Value	Comments
5	TSS	mg/L	Upon discharge	0	-	-	-	-	-	-	Creek not flowing at that location
	Conductivity	µS/cm		0	-	-	-	-	-	-	Creek not flowing at that location
	Oil & Grease	mg/L		0	-	-	-	-	-	-	Creek not flowing at that location
	pH	pH		0	-	-	-	-	-	-	Creek not flowing at that location
6	TSS	mg/L	Upon discharge	1	23/03/2021	-	-	-	-	35	Creek flowing. Sample taken after water release from LDP3.
	Conductivity	µS/cm		1	23/03/2021	-	-	-	-	91	Creek flowing. Sample taken after water release from LDP3.

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date of Max. Value Obtained	Min Value	Mean Value	Median Value	Max or Only Value	Comments
	Oil & Grease	mg/L		1	23/03/2021	-	-	-	-	<5	Creek flowing. Sample taken after water release from LDP3.
	pH	pH		1	23/03/2021	-	-	-	-	6.82	Creek flowing. Sample taken after water release from LDP3.

Table 2 - Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date of Max. Value Obtained	Min Value	Max or Only Value	100%ile Limit	Exceed -ance (Yes/ No)	Comment/s
1	TSS	mg/L	Upon discharge	0	-	-	-	-	-	-	-
	Conductivity	µS/cm		0	-	-	-	-	-	-	-
	Oil & Grease	mg/L		0	-	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-	-
2	TSS	mg/L	Upon discharge	0	-	-	-	-	-	-	-
	Conductivity	µS/cm		0	-	-	-	-	-	-	-

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date of Max. Value Obtained	Min Value	Max or Only Value	100%ile Limit	Exceed -ance (Yes/ No)	Comment/s
	Oil & Grease	mg/L		0	-	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-	-
3	TSS	mg/L	Upon discharge	1	23/03/21	23/03/21		5,670	50	NA	Sample taken during water discharge. Site recorded more than 41mm of rain on 23rd March.
	Conductivity	µS/cm		1	23/03/21	23/03/21		275	NA	NA	Sample taken during water discharge. Site recorded more than 41mm of rain on 23rd March.
	Oil & Grease	mg/L		1	23/03/21	23/03/21		<5	10	No	Sample taken during water discharge. Site recorded more than 41mm of rain on 23rd March.
	pH	pH		1	23/03/21	23/03/21		8.6	8.5	Yes	Sample taken during water discharge. Site recorded more than 41mm of rain on 23rd March.
24	TSS	mg/L	Upon discharge	0	-	-	-	-	-	-	-
	Conductivity	µS/cm		0	-	-	-	-	-	-	-
	Oil & Grease	mg/L		0	-	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-	-

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date of Max. Value Obtained	Min Value	Max or Only Value	100%ile Limit	Exceed -ance (Yes/ No)	Comment/s
26	TSS	mg/L	Upon discharge	0	-	-	-	-	-	-	-
	Conductivity	µS/cm		0	-	-	-	-	-	-	-
	Oil & Grease	mg/L		0	-	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-	-
27	TSS	mg/L	Upon discharge	0	-	-	-	-	-	-	-
	Conductivity	µS/cm		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 of Max. Value Obtained	Min Value	Mean Value	Median Value	Max or Only Value
9	Conductivity	µS/cm	6 monthly – (Mar- Sep)	1	04/03/21	04/03/21	-	-	-	3,420
	Lead	mg/L		1	04/03/21	04/03/21	-	-	-	0.004
	pH	pH		1	04/03/21	04/03/21	-	-	-	8
	Standing Water Level	metres		1	04/03/21	04/03/21	-	-	-	7.42
10	Conductivity	µS/cm	6 monthly – (Mar- Sep)	1	04/03/21	04/03/21	-	-	-	468
	Lead	mg/L		1	04/03/21	04/03/21	-	-	-	0.003
	pH	pH		1	04/03/21	04/03/21	-	-	-	7.03
	Standing Water Level	metres		1	04/03/21	04/03/21	-	-	-	4.25
12	Conductivity	µS/cm	6 monthly – (Mar- Sep)	1	04/03/21	04/03/21	-	-	-	2,240
	Lead	mg/L		1	04/03/21	04/03/21	-	-	-	<0.001
	pH	pH		1	04/03/21	04/03/21	-	-	-	7.68
	Standing Water Level	metres		1	04/03/21	04/03/21	-	-	-	16.28
13	Conductivity	µS/cm	Quarterly - (Feb, May, Aug, Nov)	0	-	-	-	-	-	-
	Oil & Grease	mg/L		0	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-
	TSS	mg/L		0	-	-	-	-	-	-

Table 4 – Quarterly Attended Noise Monitoring

(Noise Limits Apply -35dB LAeq(15min) -Day, Evening and Night;45dB LA1(1min) -Night)

(Extracts from consultants' report for the quarter)

Date	Time	Total Noise Levels (dB)						Mine LAeq Noise Level (dB)	Wind Speed (m/s)	Wind Direction (°)	Stabil-ity Categ-ory	Rain (mm)
		LA eq	LA max	LA min	LA1	LA10	LA90					
TN2												
15/03/2021	11:57	35	58	29	42	37	31	<21 (I/A)	3.3	107	B	0
	12:14	36	61	29	46	38	32	<22 (I/A)	4	139	D	0
	12:31	37	55	30	45	39	33	<23 (I/A)	3.9	90	B	0
	12:49	35	49	29	41	37	32	<22 (I/A)	5.1	111	D	0
	13:05	35	63	28	42	36	31	<21 (I/A)	3.5	100	C	0
	13:21	35	58	28	45	36	30	<20 (I/A)	3.7	148	D	0
	20:54	52	58	43	56	55	46	<36 (I/A)	3	111	D	0
	21:10	46	51	41	49	48	44	<34 (I/A)	3.1	107	E	0
	22:00	47	52	41	51	50	43	22	3.4	118	E	0
	22:16	43	48	39	47	46	40	26	3.7	114	E	0
	22:31	41	51	38	44	43	40	<30 (I/A)	4.5	121	E	0
	22:47	43	48	39	46	45	41	<31 (I/A)	3.2	111	E	0
16/03/2021	11:25	43	60	35	52	45	38	<28 (I/A)	6.6	100	D	0
	11:41	44	63	34	51	47	38	<28 (I/A)	6.1	120	D	0
	11:56	43	64	35	50	45	38	<28 (I/A)	6.2	120	D	0
	12:12	41	55	35	47	44	37	<27 (I/A)	6	93	D	0
	12:30	40	67	30	46	42	33	<23 (I/A)	5.8	121	D	0

	12:45	37	54	28	46	40	32	<22 (I/A)	5.8	122	D	0
	21:10	43	61	40	46	44	42	<32 (I/A)	1.8	53	D	0
	21:26	43	46	39	45	44	41	<31 (I/A)	2.4	42	D	0
	22:00	43	57	36	48	44	41	<31 (I/A)	3.6	75	E	0
	22:15	39	50	36	42	40	37	<27 (I/A)	1.8	82	E	0
	22:30	41	52	37	45	42	39	<29 (I/A)	1.3	56	E	0
	22:45	41	48	38	45	42	39	<29 (I/A)	1.1	87	F	0
17/03/2021	09:58	37	60	29	48	37	31	<21 (I/A)	4.7	146	D	0
	10:14	35	56	28	44	37	31	<21 (I/A)	4.4	151	D	0.2
	10:29	34	52	30	41	35	32	<22 (I/A)	3.7	158	D	0
	10:44	35	56	28	45	35	30	<20 (I/A)	3.4	136	C	0
	11:00	34	55	28	43	35	30	<20 (I/A)	4.6	110	C	0
	11:17	35	48	28	42	37	31	<21 (I/A)	2.5	120	C	0
	21:12	43	62	40	45	44	42	<32 (I/A)	2.7	82	E	0
	21:27	43	47	39	45	44	42	<32 (I/A)	3.8	89	D	0
	22:00	41	49	38	46	42	40	<30 (I/A)	3.5	86	D	0
	22:15	42	54	38	44	43	40	<30 (I/A)	5.7	104	D	0
18/03/2021	22:30	42	59	38	45	43	40	<30 (I/A)	4.5	107	E	0
	22:46	41	49	39	43	42	40	<30 (I/A)	5.2	110	E	0
	09:03	41	60	29	54	40	32	<22 (I/A)	2.4	116	B	0
	09:19	37	68	28	46	39	31	<21 (I/A)	2.1	113	C	0
	09:34	38	63	28	49	39	31	<21 (I/A)	2.3	146	C	0
	09:56	36	57	30	45	37	32	<30	2.9	121	D	0
	10:11	37	63	29	48	37	32	<30	3	154	D	0
	10:27	38	60	30	49	39	33	<30	4.4	149	D	0
	21:15	37	52	35	40	38	36	<26 (I/A)	2.6	102	E	0
	21:31	38	46	34	41	39	36	<26 (I/A)	2.1	74	D	0

	22:00	38	62	34	41	39	37	<27 (I/A)	3.5	110	E	0
	22:15	35	66	28	37	35	31	<30	3.9	118	E	0
TN3												
15/03/2021	14:08	47	71	35	57	44	37	<27 (I/A)	2.8	108	B	0
	14:23	55	79	35	66	49	38	<28 (I/A)	4.3	153	D	0
	14:38	50	73	35	63	47	38	<28 (I/A)	2.5	113	C	0
	14:53	53	74	34	69	49	37	<27 (I/A)	4.1	150	D	0
	15:08	57	79	35	70	54	38	<28 (I/A)	3.5	158	C	0
	15:24	55	77	36	69	53	38	<28 (I/A)	3.4	157	D	0
	20:15	44	48	41	45	45	43	<30	1.6	149	D	0
	20:30	43	62	40	46	44	42	<30	0.8	99	F	0
	23:12	41	57	39	44	42	40	<30 (I/A)	3.6	115	E	0
	23:27	46	70	39	53	42	40	<30 (I/A)	2.8	115	F	0
	23:42	42	59	39	47	42	40	<30 (I/A)	3.6	114	E	0
	23:57	42	53	39	45	42	40	<30 (I/A)	3.9	118	E	0
16/03/2021	13:24	54	76	34	68	53	38	<28 (I/A)	4.5	93	D	0
	13:39	47	71	34	56	47	37	<27 (I/A)	5.8	100	D	0
	14:13	43	53	40	47	44	42	<32 (I/A)	4.7	106	D	0
	14:16	49	74	34	55	47	36	<26 (I/A)	5.1	113	C	0
	14:31	40	59	34	48	42	36	<26 (I/A)	4.4	107	D	0
	14:46	52	73	33	66	48	37	<27 (I/A)	5.4	83	B	0
	20:18	43	58	39	51	44	41	<20	0.8	122	D	0
	20:33	44	59	39	47	45	42	<20	2.4	66	D	0
	23:16	41	53	38	43	42	40	<20	4.9	93	E	0
	23:31	42	47	39	44	43	40	<20	4.6	100	E	0
	23:46	40	44	36	42	41	38	<20	3.6	104	E	0
	00:01	41	45	38	43	42	40	<20	2.6	87	D	0

17/03/2021	11:55	54	77	33	67	51	37	<27 (I/A)	3.8	124	D	0
	12:10	53	75	38	67	48	40	<30 (I/A)	3.3	167	D	0
	12:25	54	74	36	69	51	40	<30 (I/A)	3.6	170	D	0
	12:40	56	78	38	69	52	42	<32 (I/A)	4.7	163	D	0
	12:58	56	81	38	67	48	40	<35	4.8	155	D	0
	13:14	54	74	42	68	51	45	<35	5.2	164	D	0
	20:30	39	57	33	43	41	35	<30	0.6	90	F	0
	20:45	40	58	33	45	43	35	<30	0.4	227	F	0
	23:16	43	55	39	46	44	41	<31 (I/A)	4.9	116	E	0
	23:31	42	51	39	44	43	41	<31 (I/A)	3.9	97	E	0
18/03/2021	23:46	41	55	38	43	42	40	<30 (I/A)	2.4	87	E	0
	00:01	41	47	37	44	42	39	<29 (I/A)	2.6	118	D	0
	11:06	48	71	35	58	46	38	<28 (I/A)	4.9	146	C	0
	11:22	50	74	34	62	46	37	<27 (I/A)	4.6	145	D	0
	11:38	53	80	36	62	46	37	<27 (I/A)	4.1	134	B	0
	11:55	48	71	34	54	48	37	<27 (I/A)	5.3	84	C	0
	12:11	50	77	33	53	45	35	<25 (I/A)	5.2	168	D	0
	12:26	57	80	34	71	47	37	<27 (I/A)	4.6	123	C	0
	20:13	42	49	37	46	43	39	<25	3.5	96	D	0
	20:28	41	53	37	45	43	39	<25	3	98	E	0
	23:20	40	53	38	43	41	39	<20	3.9	102	E	0
	23:35	40	51	37	42	41	39	<20	4.6	106	E	0
TN4												
15/03/2021	11:53	47	58	41	55	50	42	<32 (I/A)	3.2	120	B	0
	12:08	46	64	41	55	48	42	<32 (I/A)	3.4	98	B	0
	12:23	46	66	40	56	46	42	<32 (I/A)	4.1	150	C	0
	12:38	47	65	40	57	49	42	<32 (I/A)	5.1	111	D	0

	12:53	48	74	40	60	46	41	<31 (I/A)	3.7	104	C	0
	13:08	44	57	39	49	46	41	<31 (I/A)	3.5	100	C	0
	21:30	66	69	48	67	67	64	I/A (<30)*	0.4	192	F	0
	21:45	65	69	47	68	67	60	I/A (<30)*	2.2	106	D	0
	22:00	67	70	53	68	68	64	<54 (I/A)	3.4	118	E	0
	22:15	67	70	51	69	68	65	<55 (I/A)	3.7	114	E	0
	22:30	66	70	46	69	68	63	<53 (I/A)	4.5	121	E	0
	22:45	66	69	46	68	67	63	<53 (I/A)	3.2	111	E	0
16/03/2021	11:03	50	65	41	59	52	44	<34 (I/A)	7.8	125	D	0
	11:18	50	66	40	59	53	42	<32 (I/A)	6.7	100	D	0
	11:33	50	63	39	58	53	44	<34 (I/A)	5	106	D	0
	11:48	57	79	38	71	56	43	<33 (I/A)	7.4	119	D	0
	12:03	55	77	40	67	56	43	<33 (I/A)	6.6	105	D	0
	12:18	47	59	36	52	50	40	<30 (I/A)	6.4	100	D	0
	21:30	53	65	46	61	56	48	I/A (<30)*	2.1	50	D	0
	21:45	53	63	46	61	56	47	<37 (I/A)	3.6	55	D	0
	22:00	56	66	46	63	60	47	<37 (I/A)	3.6	75	E	0
	22:15	55	65	46	62	59	48	I/A (<30)*	1.8	82	E	0
	22:30	55	64	46	61	58	47	I/A (<30)*	1.9	63	E	0
	22:45	56	65	46	62	60	49	<39 (I/A)	3.4	83	D	0
17/03/2021	08:15	46	68	40	53	48	42	<32 (I/A)	3.3	142	D	0
	08:30	58	77	40	70	61	43	<33 (I/A)	3.3	142	D	0
	08:45	69	85	44	80	74	46	<36 (I/A)	1.6	143	D	0
	09:00	67	86	45	78	72	50	<40 (I/A)	1.9	139	D	0
	09:15	54	67	46	63	57	47	<37 (I/A)	4.3	135	D	0
	09:30	60	80	43	74	56	46	<36 (I/A)	3.7	121	D	0

	21:30	57	66	47	63	61	51	<41 (I/A)	3.1	89	D	0
	21:45	57	66	47	63	61	50	<40 (I/A)	3.6	105	D	0
	22:00	59	67	49	64	62	53	<43 (I/A)	3.5	86	D	0
	22:15	56	66	46	63	60	49	<39 (I/A)	5.7	104	D	0
18/03/2021	22:30	55	66	44	63	60	47	<37 (I/A)	4.5	107	E	0
	22:45	55	65	44	63	60	46	<36 (I/A)	5.2	110	E	0
	09:41	45	64	40	51	47	42	<32 (I/A)	3.8	147	D	0
	09:56	46	64	40	52	49	42	<32 (I/A)	3.9	128	B	0
	10:11	45	69	39	50	47	41	<31 (I/A)	3.1	134	D	0
	10:26	43	55	38	48	45	40	<30 (I/A)	4.4	149	D	0
	10:41	46	67	40	51	48	42	<32 (I/A)	3.4	163	C	0
	10:56	46	55	40	50	48	42	<32 (I/A)	4.4	137	C	0
	21:30	62	66	48	65	65	52	I/A (<30)*	2.1	74	D	0
	21:45	63	66	48	65	65	52	<42 (I/A)	4	110	E	0
	22:00	63	66	46	65	65	51	<41 (I/A)	3.5	110	E	0
	22:15	62	71	44	65	65	48	<38 (I/A)	3.9	118	E	0

Notes:

- Acronyms used: I/A = Inaudible, m/s = metres/second, dB = decibel.
- Coloured Cells = Non-compliant weather conditions not included in calculation of average for that period. Non-compliant weather conditions are any:
  a) Wind speeds greater than 3m/s at 10m above ground level
  b) Stability Category F temperature inversion conditions and wind speeds greater than 2m/s, 10m above the ground
  c) Stability category G temperature inversions.
- Real time weather conditions retrieved from the mine, after monitoring occurs.

Attended noise monitoring was conducted at the "Bungalow" (TN4), "Barbers Lagoon" (TN3) and "Matong" (TN2) properties from 15th to the 18th of March 2021. The summary table (Table 4) displays a comprehensive results table displaying all measurements. The noise criterion for the mine is 35dB(A) Leq (15 min) for all operating times.

Noise from the mine must not exceed 45 dB(A) L1 (1 min) between 10 pm and 7 am. This is to minimise the potential for sleep disturbance as a result of individual loud noises from the mine. The results of the sleep disturbance monitoring show that the measured L1 (1 min) noise level did not exceed the sleep disturbance criterion.

The results above show that noise emissions from the mine did not exceed the operational noise criterion at the “Barbers Lagoon”, “Bungalow” or “Matong” monitoring locations during the monitoring event during the entire monitoring period.

Table 5 – Monthly Monitoring (Blasts – Limits Apply)

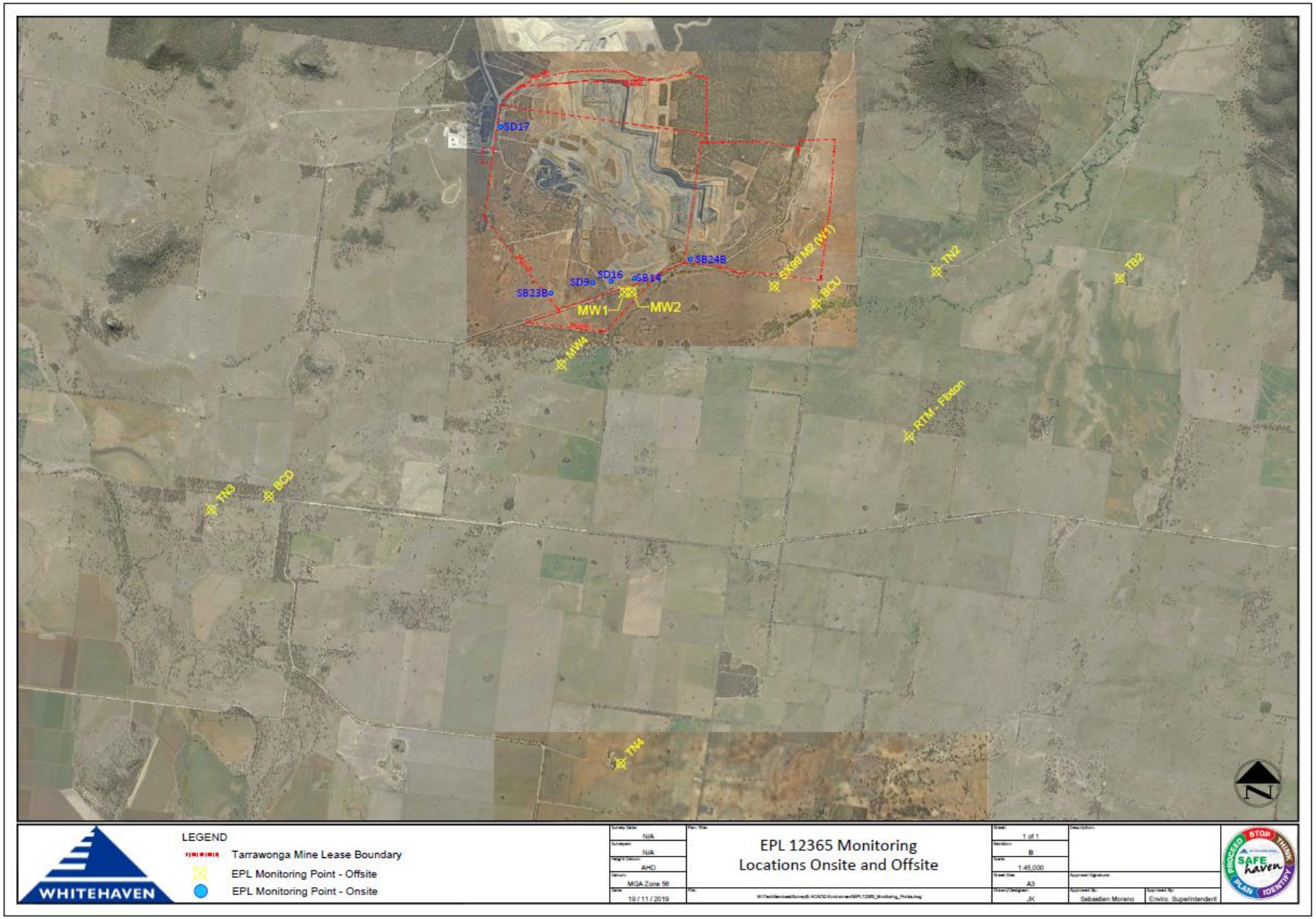
Location	Parameter	Units of Measure	Frequency	No. of Blasts for the Month	Average Value	Max Value	100%ile Limit	(Potential) Non-compliance /breach	Date of Max. Value Obtained
Coomalgah (TB2)	**Blast Noise**	**dB (Lin Peak)**	**Every Blast**	4	98.2	106.90	**120**	**Nil**	06/03/21
	Blast Vibration	**mm/s**	**Every Blast**	4	0.2	0.35	**10**	**Nil**	06/03/21

Table 6- Monthly Monitoring (Dust PM10 – No Limits apply)

Location	No. of samples required by licence	Lowest sample value	Mean of sample	Highest sample value
"Flixton" property* TEOM ($\mu g/m^3$)	Continuous	0	10.6	23.9

*****_Mine owned property – no limit apply_

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 2021
Obtained Date: 12/05/2021
Publication Date: 14/05/2021

Table 1 - No Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date of Max. Value Obtained	Min Value	Mean Value	Median Value	Max or Only Value	Comments
5	TSS	mg/L	Upon discharge	0	-	-	-	-	-	-	-
	Conductivity	µS/cm		0	-	-	-	-	-	-	-
	Oil & Grease	mg/L		0	-	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-	-
6	TSS	mg/L	Upon discharge	0	-	-	-	-	-	-	-
	Conductivity	µS/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 of Max. Value Obtained	Min Value	Max or Only Value	100%ile Limit	Exceed -ance (Yes/ No)	Comment/s
1	TSS	mg/L	Upon discharge	0	-	-	-	-	-	-	-
	Conductivity	µS/cm		0	-	-	-	-	-	-	-
	Oil & Grease	mg/L		0	-	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-	-
2	TSS	mg/L	Upon discharge	0	-	-	-	-	-	-	-
	Conductivity	µS/cm		0	-	-	-	-	-	-	-
	Oil & Grease	mg/L		0	-	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-	-
3	TSS	mg/L	Upon discharge	0	-	-	-	-	-	-	-
	Conductivity	µS/cm		0	-	-	-	-	-	-	-
	Oil & Grease	mg/L		0	-	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-	-
24	TSS	mg/L	Upon discharge	0	-	-	-	-	-	-	-
	Conductivity	µS/cm		0	-	-	-	-	-	-	-
	Oil & Grease	mg/L		0	-	-	-	-	-	-	-

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date of Max. Value Obtained	Min Value	Max or Only Value	100%ile Limit	Exceed -ance (Yes/ No)	Comment/s
	pH	pH		0	-	-	-	-	-	-	-
26	TSS	mg/L	Upon discharge	0	-	-	-	-	-	-	-
	Conductivity	µS/cm		0	-	-	-	-	-	-	-
	Oil & Grease	mg/L		0	-	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-	-
27	TSS	mg/L	Upon discharge	0	-	-	-	-	-	-	-
	Conductivity	µS/cm		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 of Max. Value Obtained	Min Value	Mean Value	Median Value	Max or Only Value
9	Conductivity	µS/cm	6 monthly – (Mar- Sep)	0	-	-	-	-	-	-
	Lead	mg/L		0	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-
	Standing Water Level	metres		0	-	-	-	-	-	-
10	Conductivity	µS/cm	6 monthly – (Mar- Sep)	0	-	-	-	-	-	-
	Lead	mg/L		0	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-
	Standing Water Level	metres		0	-	-	-	-	-	-
12	Conductivity	µS/cm	6 monthly – (Mar- Sep)	0	-	-	-	-	-	-
	Lead	mg/L		0	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-
	Standing Water Level	metres		0	-	-	-	-	-	-
13	Conductivity	µS/cm	Quarterly - (Feb, May, Aug, Nov)	0	-	-	-	-	-	-
	Oil & Grease	mg/L		0	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-
	TSS	mg/L		0	-	-	-	-	-	-

Table 4 – Quarterly Attended Noise Monitoring

(Noise Limits Apply -35dB LAeq(15min) -Day, Evening and Night;45dB LA1(1min) -Night)

No Noise Monitoring data reported for April

Table 5 – Monthly Monitoring (Blasts – Limits Apply)

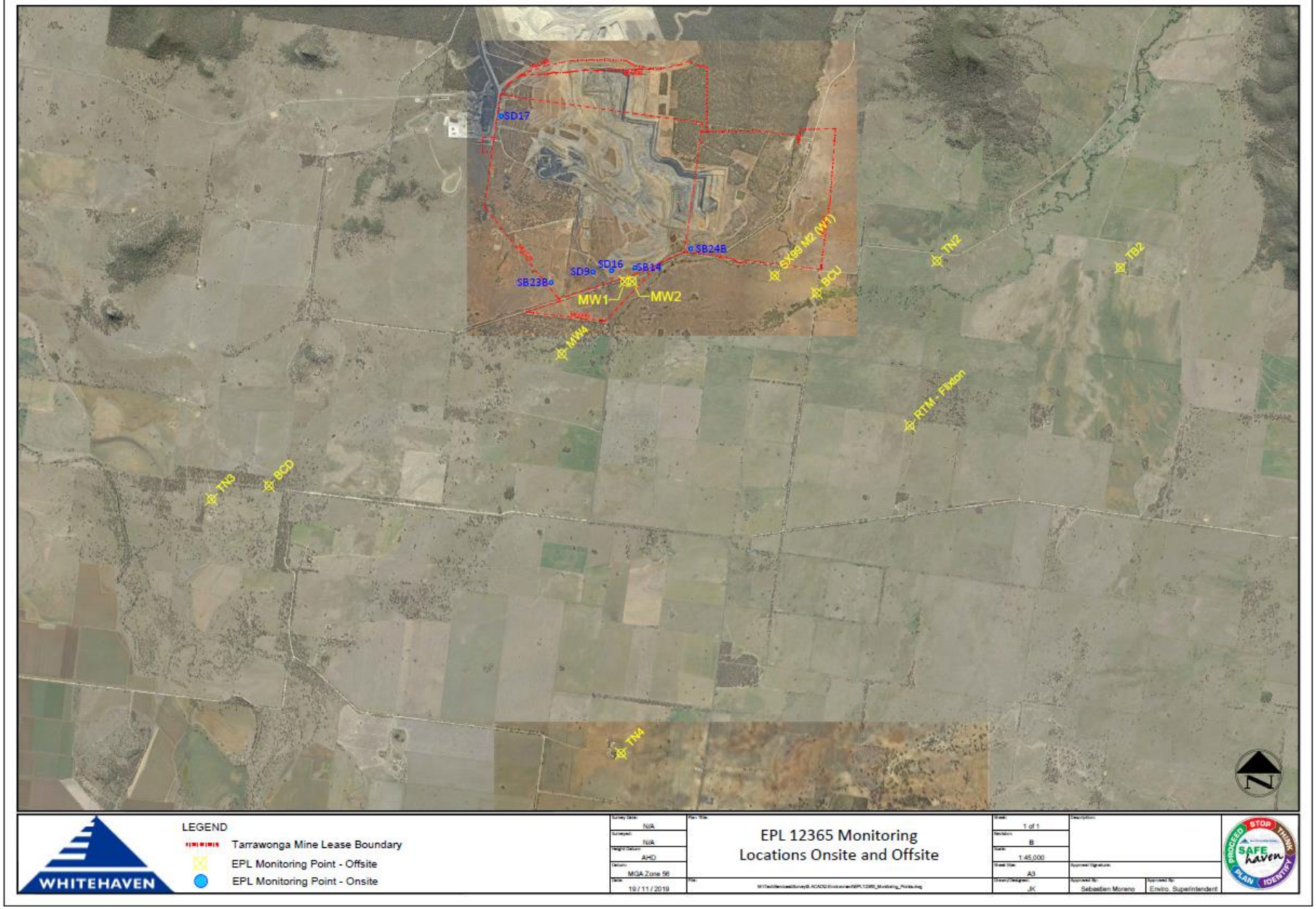
Location	Parameter	Units of Measure	Frequency	No. of Blasts for the Month	Average Value	Max Value	100%ile Limit	(Potential) Non-compliance /breach	Date of Max. Value Obtained
Coomalgah (TB2)	**Blast Noise**	**dB (Lin Peak)**	**Every Blast**	5	101.14	107.60	**120**	**Nil**	30/04/21
	Blast Vibration	**mm/s**	**Every Blast**	5	0.53	1.01	**10**	**Nil**	30/04/21

Table 6- Monthly Monitoring (Dust PM10 – No Limits apply)

Location	No. of samples required by licence	Lowest sample value	Mean of sample	Highest sample value
"Flixton" property* TEOM ($\mu g/m^3$)	Continuous	3.49	20.4	63.3

*****_Mine owned property – no limit apply_

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: May 2021
Obtained Date: 8/06/2021
Publication Date: 09/06/2021

Table 1 - No Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date of Max. Value Obtained	Min Value	Mean Value	Median Value	Max or Only Value	Comments
5	TSS	mg/L	Upon discharge	0	-	-	-	-	-	-	-
	Conductivity	µS/cm		0	-	-	-	-	-	-	-
	Oil & Grease	mg/L		0	-	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-	-
6	TSS	mg/L	Upon discharge	0	-	-	-	-	-	-	-
	Conductivity	µS/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 of Max. Value Obtained	Min Value	Max or Only Value	100%ile Limit	Exceed -ance (Yes/ No)	Comment/s
1	TSS	mg/L	Upon discharge	0	-	-	-	-	-	-	-
	Conductivity	µS/cm		0	-	-	-	-	-	-	-
	Oil & Grease	mg/L		0	-	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-	-
2	TSS	mg/L	Upon discharge	0	-	-	-	-	-	-	-
	Conductivity	µS/cm		0	-	-	-	-	-	-	-
	Oil & Grease	mg/L		0	-	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-	-
3	TSS	mg/L	Upon discharge	2	09/05/21	09/05/21	893	2,040	50	No	Limit does not apply due to discharge occurring after 38.4mm
	Conductivity	µS/cm		2	09/05/21	09/05/21	213	240	N/A	N/A	
	Oil & Grease	mg/L		2	09/05/21	09/05/21	<5	<5	10	No	
	pH	pH		2	09/05/21	09/05/21	6.85	6.95	6.5-8.5	No	
24	TSS	mg/L	Upon discharge	0	-	-	-	-	-	-	-
	Conductivity	µS/cm		0	-	-	-	-	-	-	-

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date of Max. Value Obtained	Min Value	Max or Only Value	100%ile Limit	Exceed -ance (Yes/ No)	Comment/s
	Oil & Grease	mg/L		0	-	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-	-
26	TSS	mg/L	Upon discharge	0	-	-	-	-	-	-	-
	Conductivity	µS/cm		0	-	-	-	-	-	-	-
	Oil & Grease	mg/L		0	-	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-	-
27	TSS	mg/L	Upon discharge	0	-	-	-	-	-	-	-
	Conductivity	µS/cm		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 of Max. Value Obtained	Min Value	Mean Value	Median Value	Max or Only Value
9	Conductivity	µS/cm	6 monthly – (Mar- Sep)	0	-	-	-	-	-	-
	Lead	mg/L		0	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-
	Standing Water Level	metres		0	-	-	-	-	-	-
10	Conductivity	µS/cm	6 monthly – (Mar- Sep)	0	-	-	-	-	-	-
	Lead	mg/L		0	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-
	Standing Water Level	metres		0	-	-	-	-	-	-
12	Conductivity	µS/cm	6 monthly – (Mar- Sep)	0	-	-	-	-	-	-
	Lead	mg/L		0	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-
	Standing Water Level	metres		0	-	-	-	-	-	-
13	Conductivity	µS/cm	Quarterly - (Feb, May, Aug, Nov)	1	17/05/21	17/05/21	-	-	-	1,540
	Oil & Grease	mg/L		1	17/05/21	17/05/21	-	-	-	<5
	pH	pH		1	17/05/21	17/05/21	-	-	-	8.72
	TSS	mg/L		1	17/05/21	17/05/21	-	-	-	17

Table 4 – Quarterly Attended Noise Monitoring

(Noise Limits Apply -35dB LAeq(15min) -Day, Evening and Night;45dB LA1(1min) -Night)

No Noise Monitoring data reported for May

Table 5 – Monthly Monitoring (Blasts – Limits Apply)

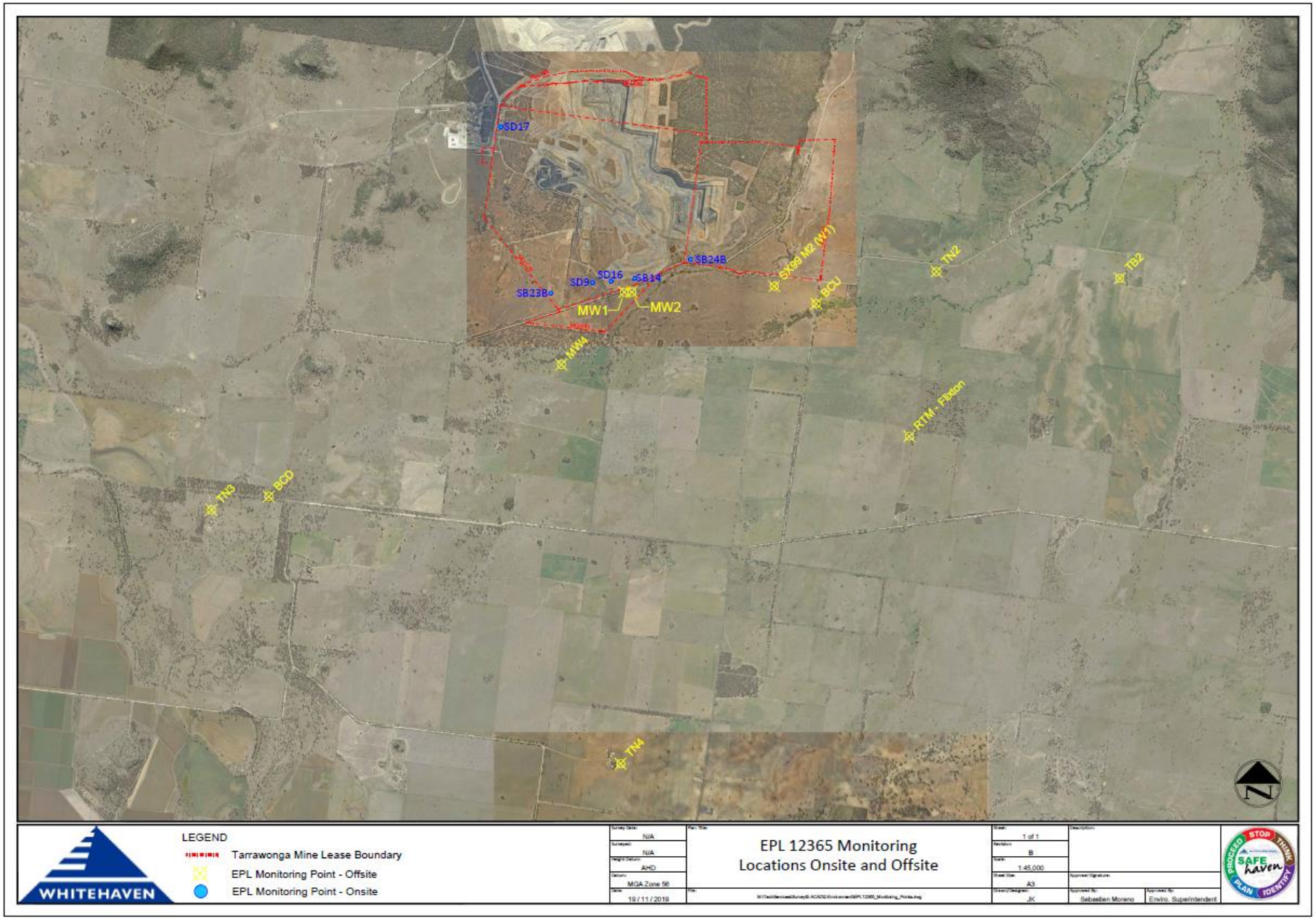
Location	Parameter	Units of Measure	Frequency	No. of Blasts for the Month	Average Value	Max Value	100%ile Limit	(Potential) Non-compliance /breach	Date of Max. Value Obtained
Coomalgah (TB2)	**Blast Noise**	**dB (Lin Peak)**	**Every Blast**	7	96.33	104.70	**120**	**Nil**	25/05/2021
	Blast Vibration	**mm/s**	**Every Blast**	7	0.31	0.61	**10**	**Nil**	25/05/2021

Table 6- Monthly Monitoring (Dust PM10 – No Limits apply)

Location	No. of samples required by licence	Lowest sample value	Mean of sample	Highest sample value
"Flixton" property* TEOM ($\mu g/m^3$)	Continuous	0	10.4	25.1

*****_Mine owned property – no limit apply_

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: June 2021
Obtained Date: 9/07/2021
Publication Date: 13/07/2021

Table 1 - No Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date of Max. Value Obtained	Min Value	Mean Value	Median Value	Max or Only Value	Comments
5	TSS	mg/L	Upon discharge	0	-	-	-	-	-	-	Not flowing
	Conductivity*	µS/cm		0	-	-	-	-	-	-	
	Oil & Grease	mg/L		0	-	-	-	-	-	-	
	pH	pH		0	-	-	-	-	-	-	
6	TSS	mg/L	Upon discharge	1	10/06/2021	-	-	-	-	28	
	Conductivity*	µS/cm		1	10/06/2021	-	-	-	-	123	
	Oil & Grease	mg/L		1	10/06/2021	-	-	-	-	<5	
	pH	pH		1	10/06/2021	-	-	-	-	6.81	

Table 2 - Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date of Max. Value Obtained	Min Value	Max or Only Value	100%ile Limit	Exceed -ance (Yes/ No)	Comment/s
1	TSS	mg/L	Upon discharge	0	-	-	-	-	-	-	-
	Conductivity*	µS/cm		0	-	-	-	-	-	-	-
	Oil & Grease	mg/L		0	-	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-	-
2	TSS	mg/L	Upon discharge	0	-	-	-	-	-	-	-
	Conductivity*	µS/cm		0	-	-	-	-	-	-	-
	Oil & Grease	mg/L		0	-	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-	-
3	TSS	mg/L	Upon discharge	7	10-11/06/21	10/06/21	446	3,130	50	No	Samples/ Duplicates taken after ~42mm of rain. This renders the TSS limit not applicable.
	Conductivity*	µS/cm		7	10-11/06/21	11/06/21	408	481	NA	NA	
	Oil & Grease	mg/L		7	10-11/06/21	10/06/21	<5	<5	10	No	

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date of Max. Value Obtained	Min Value	Max or Only Value	100%ile Limit	Exceed -ance (Yes/ No)	Comment/s
	pH	pH		7	10-11/06/21	10/06/21	7.62	7.75	6.5-8.5	No	
24	TSS	mg/L	Upon discharge	0	-	-	-	-	-	-	-
	Conductivity*	µS/cm		0	-	-	-	-	-	-	-
	Oil & Grease	mg/L		0	-	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-	-
26	TSS	mg/L	Upon discharge	0	-	-	-	-	-	-	-
	Conductivity*	µS/cm		0	-	-	-	-	-	-	-
	Oil & Grease	mg/L		0	-	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-	-
27	TSS	mg/L	Upon discharge	2	12/06/21	12/06/21	141	145	50	No	Samples/ Duplicates taken after ~42mm of rain. This renders the TSS limit not applicable.
	Conductivity*	µS/cm		2	12/06/21	12/06/21	321	323	NA	NA	
	Oil & Grease	mg/L		2	12/06/21	12/06/21	<5	<5	10	No	
	pH	pH		2	12/06/21	12/06/21	8.05	8.06	6.5-8.5	No	

*No EPL limit applies

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 of Max. Value Obtained	Min Value	Mean Value	Median Value	Max or Only Value
9	Conductivity	µS/cm	6 monthly – (Mar- Sep)	0	-	-	-	-	-	-
	Lead	mg/L		0	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-
	Standing Water Level	metres		0	-	-	-	-	-	-
10	Conductivity	µS/cm	6 monthly – (Mar- Sep)	0	-	-	-	-	-	-
	Lead	mg/L		0	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-
	Standing Water Level	metres		0	-	-	-	-	-	-
12	Conductivity	µS/cm	6 monthly – (Mar- Sep)	0	-	-	-	-	-	-
	Lead	mg/L		0	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-
	Standing Water Level	metres		0	-	-	-	-	-	-
13	Conductivity	µS/cm	Quarterly - (Feb, May, Aug, Nov)	0	-	-	-	-	-	-
	Oil & Grease	mg/L		0	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-
	TSS	mg/L		0	-	-	-	-	-	-

Table 4 – Quarterly Attended Noise Monitoring

(Noise Limits Apply -35dB LAeq(15min) -Day, Evening and Night;45dB LA1(1min) -Night)

(Extracts from consultants' report for the quarter)

Date	Time	Total Noise Levels (dB)					Mine L_{Aeq} Noise Level (dB)	Wind Speed (m/s)	Wind Direction (°)	Stability Category	Rain (mm)
		L_{Aeq}	L_{Amax}	L_{Amin}	L_{A10}	L_{A90}					
TN2											
07/06/2021	12:44	27	47	21	27	23	26	1.8	317	C	0
	13:04	29	55	21	28	24	27	1.6	261	C	0
	13:19	27	45	21	27	23	25	1.5	35	C	0.2
	13:44	34	62	21	31	23	<25	1.4	310	A	0
	14:01	29	53	22	27	24	<25	1.7	331	A	0
	14:19	40	67	22	30	24	<25	1.4	350	C	0
	21:12	29	41	25	30	27	29	1.3	42	E	0
	21:28	29	42	25	31	28	29	2.4	32	F	0
	22:00	34	50	29	35	31	34	1.6	28	F	0
	22:15	37	60	26	37	29	<35	1.8	51	F	0
	22:30	30	45	25	32	28	30	0.9	59	F	0
	22:46	30	36	24	32	26	30	1.2	65	F	0
08/06/2021	12:31	45	62	34	47	38	<35	5.4	344	C	0
	12:47	46	60	36	48	40	<35	4.6	10	C	0
	13:03	47	73	34	50	38	<35	4.8	0	C	0
	13:19	41	57	33	44	36	<32	5.3	336	C	0
	13:35	37	52	31	39	34	<35	5	354	D	0
	13:50	37	56	31	40	33	<35	4.3	7	C	0
	22:22	38	45	33	40	36	38	3	32	E	0

Date	Time	Total Noise Levels (dB)					Mine L_{Aeq} Noise Level (dB)	Wind Speed (m/s)	Wind Direction (°)	Stability Category	Rain (mm)
		L_{Aeq}	L_{Amax}	L_{Amin}	L_{A10}	L_{A90}					
	22:38	40	49	35	42	37	40	2.2	6	F	0
	22:54	36	43	31	39	33	36	2.9	355	F	0
	23:10	41	47	36	42	38	41	2.9	343	F	0
09/06/2021	09:54	44	59	35	47	38	38	6.6	342	D	0
	10:09	46	60	37	49	40	<40	6.3	324	D	0
	10:25	46	61	38	49	41	<40	6.1	303	D	0
	10:41	48	65	37	51	41	<38	6.5	327	D	0
	10:58	49	66	39	53	41	<35	7.8	306	D	0
	11:13	41	49	38	42	39	<35	9.7	297	D	0
	22:26	44	60	38	46	40	<35	7.9	328	D	0
	22:42	44	61	38	47	40	<35	6	336	D	0
	22:57	48	63	40	50	42	<37	8	315	D	0
	23:15	45	61	37	48	40	<30 (I/A)	7.4	303	D	0
TN3											
07/06/2021	15:06	57	80	20	43	22	<22	1.2	333	A	0
	15:22	55	80	20	47	23	<22	1.1	252	A	0
	15:37	50	73	19	38	21	<21	0.8	261	B	0
	15:53	54	74	20	46	22	<12 (I/A)	1	44	D	0
	16:08	57	78	20	47	23	<13 (I/A)	1	86	D	0
	16:23	57	79	20	53	26	<16 (I/A)	1	80	D	0
	19:40	32	52	20	34	22	<30	1.8	40	F	0
	19:55	24	41	19	26	21	<30	1.8	33	F	0
	23:15	30	41	26	32	28	<30	1.4	30	E	0
	23:30	30	40	26	32	28	<30	1.9	43	F	0

Date	Time	Total Noise Levels (dB)					Mine L_{Aeq} Noise Level (dB)	Wind Speed (m/s)	Wind Direction (°)	Stability Category	Rain (mm)
		L_{Aeq}	L_{Amax}	L_{Amin}	L_{A10}	L_{A90}					
	23:45	33	46	29	35	31	<30	1.8	40	E	0
	00:00	36	53	30	37	33	<30	1.8	23	E	0
08/06/2021	13:45	48	66	39	51	43	<33 (I/A)	5	6	D	0
	14:00	47	56	42	49	43	<33 (I/A)	4.3	5	C	0
	14:23	50	74	39	47	41	<31 (I/A)	3	353	C	0
	14:39	49	73	35	46	38	<28 (I/A)	3.2	41	C	0
	15:03	54	79	37	45	39	<29 (I/A)	3	93	C	0
	15:18	54	72	38	54	41	<31 (I/A)	2.8	351	C	0
	23:29	27	35	24	28	25	<27	4	313	E	0
	23:44	32	47	26	34	28	<27	5.6	321	D	0
	00:05	33	40	27	36	29	<30	4.8	283	E	0.4
	00:20	36	44	30	38	32	<22 (I/A)	4.1	271	D	0
09/06/2021	11:44	59	80	43	53	45	<35 (I/A)	7.9	326	D	0
	11:59	55	78	45	55	47	<37 (I/A)	7.1	305	D	0
	12:16	58	80	46	55	47	<37 (I/A)	6.1	318	D	0.2
	12:31	58	81	45	53	47	<37 (I/A)	5.8	312	D	0
	12:46	59	83	42	54	44	<34 (I/A)	5.4	318	D	0
	13:01	54	74	46	55	48	<38 (I/A)	6.4	307	D	0
	21:30	50	60	42	53	45	<35 (I/A)	5.9	317	D	0.4
	21:45	49	58	43	52	45	<35 (I/A)	5.9	319	D	0
	22:25	51	62	47	53	48	<38 (I/A)	7.9	328	D	0
	22:55	52	65	40	54	44	<34 (I/A)	8	315	D	0
	23:10	51	65	45	54	47	<37 (I/A)	7.3	302	D	0
	23:25	52	62	45	55	48	<38 (I/A)	7.4	331	D	0

Date	Time	Total Noise Levels (dB)					Mine L_{Aeq} Noise Level (dB)	Wind Speed (m/s)	Wind Direction (°)	Stability Category	Rain (mm)
		L_{Aeq}	L_{Amax}	L_{Amin}	L_{A10}	L_{A90}					
10/06/2021	16:02	56	80	47	56	50	<40 (I/A)	5.6	323	D	0
	16:18	56	76	48	57	51	<41 (I/A)	5.8	336	D	0
	16:33	59	75	48	60	51	<41 (I/A)	5.9	326	D	0
	16:49	58	77	49	59	52	<42 (I/A)	6.8	307	D	0
	17:04	56	71	48	57	51	<41 (I/A)	7.3	323	D	0
	17:20	55	71	46	55	49	<39 (I/A)	5.4	345	C	0
	21:13	39	51	34	41	36	<26 (I/A)	6.7	324	D	0
	21:29	48	71	35	45	37	<27 (I/A)	5.4	326	D	0
	22:03	40	50	34	42	37	<27 (I/A)	6	328	D	0
	22:19	40	49	36	43	38	<28 (I/A)	5.3	318	D	0.2
	22:37	50	76	36	45	38	<28 (I/A)	5.7	290	D	0.2
	22:52	36	49	31	38	33	<23 (I/A)	4.8	313	D	0.2
TN4											
07/06/2021	13:21	42	61	33	40	36	<26 (I/A)	1.6	33	C	0
	13:36	39	54	34	40	36	<26 (I/A)	1.5	310	C	0
	13:51	37	54	32	39	35	<25 (I/A)	1.4	294	A	0
	14:06	38	47	33	40	36	<26 (I/A)	1.7	209	A	0
	14:21	41	63	34	41	36	<26 (I/A)	1.4	338	C	0
	14:36	40	62	34	39	36	<26 (I/A)	1.8	263	C	0
	21:30	28	45	25	29	27	<28	2.7	33	F	0
	21:45	28	46	24	30	26	<30	2.6	27	E	0
	22:00	29	51	23	29	25	<30	1.6	28	F	0
	22:15	27	37	23	30	25	<30	1.8	51	F	0
	22:30	27	43	23	29	25	<30	0.9	59	F	0

Date	Time	Total Noise Levels (dB)					Mine L_{Aeq} Noise Level (dB)	Wind Speed (m/s)	Wind Direction (°)	Stability Category	Rain (mm)
		L_{Aeq}	L_{Amax}	L_{Amin}	L_{A10}	L_{A90}					
	22:45	27	44	23	29	25	<30	1.2	65	F	0
08/06/2021	11:51	37	55	33	38	34	<24 (I/A)	3.1	318	B	0
	12:06	52	65	37	56	42	<32 (I/A)	4	337	C	0
	12:21	58	72	44	62	47	<37 (I/A)	4.9	346	C	0
	12:36	59	72	49	62	52	<42 (I/A)	5.4	20	C	0
	12:51	52	63	40	56	45	<35 (I/A)	3.2	0	C	0
	13:06	50	66	38	53	41	<31 (I/A)	4.8	355	C	0
	13:21	48	71	38	50	41	<31 (I/A)	5.3	325	C	0
	21:30	27	48	23	28	25	<28	2.2	17	F	0
	21:45	28	39	24	29	26	<28	2	40	F	0.2
	22:12	30	59	23	27	24	<25	2.4	17	E	0
	22:29	30	53	25	31	27	<27	3	34	D	0
	22:44	30	50	24	33	26	<28	2	348	F	0
	22:59	26	40	22	27	24	<28	2.9	27	F	0
09/06/2021	09:23	50	67	41	53	45	<35 (I/A)	5.2	313	D	0
	09:38	52	61	42	55	46	<36 (I/A)	5.2	290	D	0
	09:53	53	63	43	56	47	<37 (I/A)	6.6	342	D	0
	10:08	52	60	43	54	48	<38 (I/A)	6.3	324	D	0
	10:23	54	68	46	58	49	<39 (I/A)	6.1	317	D	0
	10:38	53	62	45	56	49	<39 (I/A)	6.5	305	D	0
	23:50	55	67	45	58	49	<39 (I/A)	6.3	304	D	0
	00:31	54	66	44	57	48	<38 (I/A)	5.2	270	D	0
	00:46	53	64	45	56	49	<39 (I/A)	6.9	317	D	0
	01:01	57	65	48	60	51	<41 (I/A)	6.7	323	D	0

Date	Time	Total Noise Levels (dB)					Mine L_{Aeq} Noise Level (dB)	Wind Speed (m/s)	Wind Direction (°)	Stability Category	Rain (mm)
		L_{Aeq}	L_{Amax}	L_{Amin}	L_{A10}	L_{A90}					
10/06/2021	15:41	52	69	44	55	47	<37 (I/A)	6.3	319	D	0
	15:56	54	66	43	57	48	<38 (I/A)	6.4	2	D	0
	16:11	52	66	42	55	46	<36 (I/A)	5.8	329	D	0
	16:26	52	66	44	56	47	<37 (I/A)	5.9	353	D	0
	16:40	55	72	43	57	46	<36 (I/A)	5.8	313	D	0
	16:55	54	68	45	58	48	<38 (I/A)	6.8	339	D	0
	21:30	45	58	36	49	39	<29 (I/A)	5.4	326	D	0
	21:45	46	59	33	49	38	<28 (I/A)	6.9	332	D	0.2
	22:00	41	56	28	45	32	<22 (I/A)	6	312	D	0
	22:15	43	55	29	46	35	<25 (I/A)	5.7	312	D	0
	23:00	41	51	35	43	37	<27 (I/A)	4.6	307	D	0.2
	23:15	39	47	31	42	34	<24 (I/A)	4.8	302	D	0

Notes:

- Acronyms used: I/A = Inaudible, m/s = metres/second, dB = decibel.
- Coloured Cells = Non-compliant weather conditions not included in calculation of average for that period. Non-compliant weather conditions are any:
  a) Wind speeds greater than 3m/s at 10m above ground level
  b) Stability Category F temperature inversion conditions and wind speeds greater than 2m/s, 10m above the ground
  c) Stability category G temperature inversions.
- Real time weather conditions retrieved from the mine, after monitoring occurs.

Attended noise monitoring was conducted at the “Bungalow” (TN4), “Barbers Lagoon” (TN3) and “Matong” (TN2) properties from 7th to the 10th of June 2021. The summary table (Table 4) displays a comprehensive results table displaying all measurements. The noise criterion for the mine is 35dB(A) Leq (15 min) for all operating times.

Noise from the mine must not exceed 45 dB(A) L1 (1 min) between 10 pm and 7 am. This is to minimise the potential for sleep disturbance as a result of individual loud noises from the mine. The results of the sleep disturbance monitoring show that the measured L1 (1 min) noise level did not exceed the sleep disturbance criterion.

The results above show that noise emissions from the mine did not exceed the operational noise criterion at the “Barbers Lagoon”, “Bungalow” or “Matong” monitoring locations during the monitoring event during the entire monitoring period.

Table 5 – Monthly Monitoring (Blasts – Limits Apply)

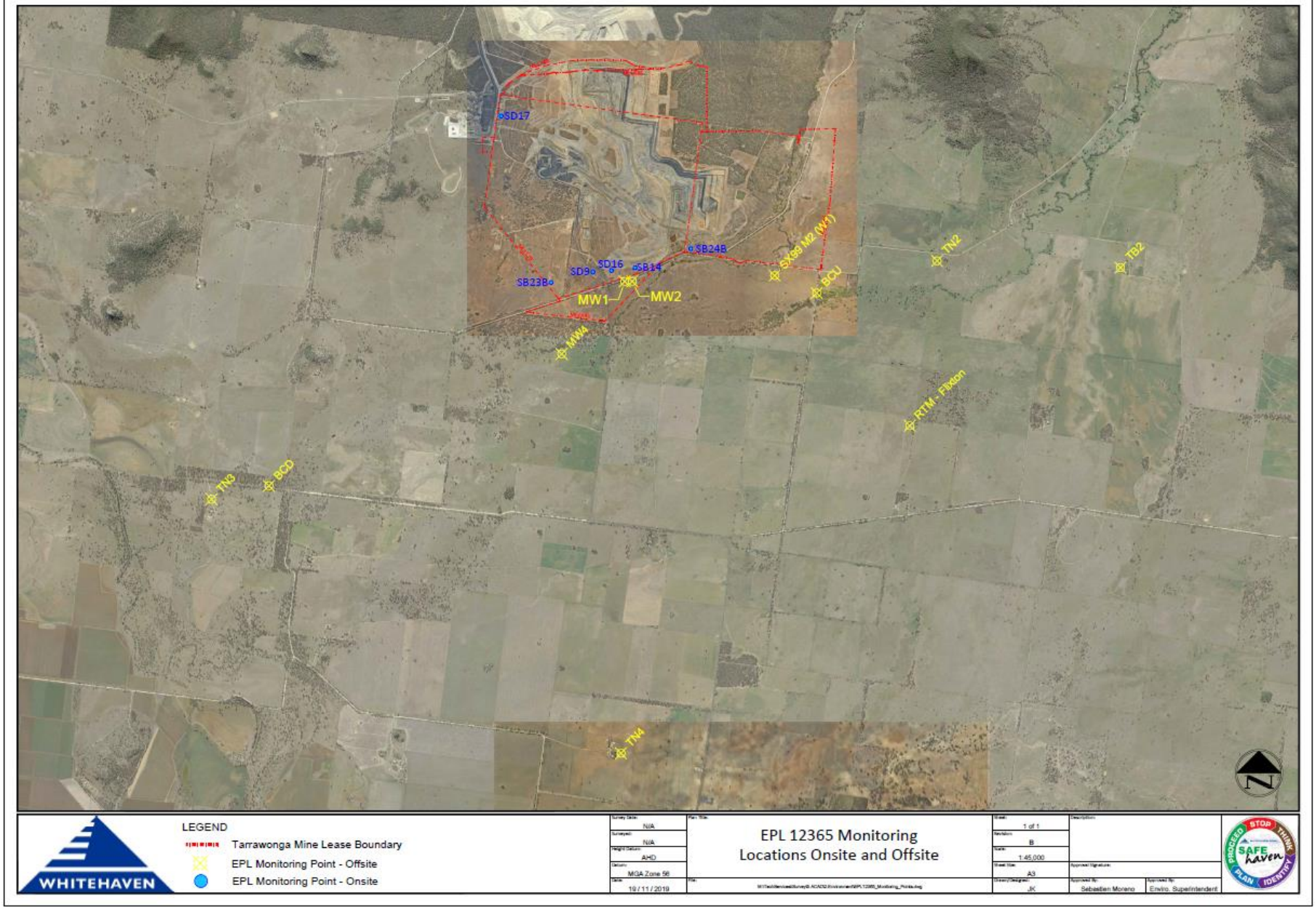
Location	Parameter	Units of Measure	Frequency	No. of Blasts for the Month	Average Value	Max Value	100%ile Limit	(Potential) Non-compliance /breach	Date of Max. Value Obtained
Coomalgah (TB2)	**Blast Noise**	**dB (Lin Peak)**	**Every Blast**	4	100.05	104.30	**120**	**Nil**	9/06/2021
	Blast Vibration	**mm/s**	**Every Blast**	4	0.13	0.24	**10**	**Nil**	9/06/2021

Table 6- Monthly Monitoring (Dust PM10 – No Limits apply)

Location	No. of samples required by licence	Lowest sample value	Mean of sample	Highest sample value
"Flixton" property* TEOM ($\mu g/m^3$)	Continuous	0	6.6	19.7

*****_Mine owned property – no limit apply_

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: July 2021
Obtained Date: 9/08/2021
Publication Date:

Table 1 - No Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date of Max. Value Obtained	Min Value	Mean Value	Median Value	Max or Only Value	Comments
5	TSS	mg/L	Upon discharge	1	14/07/2021	-	-	-	-	18	-
	Conductivity	µS/cm		1	14/07/2021	-	-	-	-	280	-
	Oil & Grease	mg/L		1	14/07/2021	-	-	-	-	<5	-
	pH	pH		1	14/07/2021	-	-	-	-	8.47	-
6	TSS	mg/L	Upon discharge	1	14/07/2021	-	-	-	-	14	-
	Conductivity	µS/cm		1	14/07/2021	-	-	-	-	179	-
	Oil & Grease	mg/L		1	14/07/2021	-	-	-	-	<5	-
	pH	pH		1	14/07/2021	-	-	-	-	7.47	-

Table 2 - Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date of Max. Value Obtained	Min Value	Max or Only Value	100%ile Limit	Exceed -ance (Yes/ No)	Comment/s
1	TSS	mg/L	Upon discharge	0	-	-	-	-	-	-	-
	Conductivity	µS/cm		0	-	-	-	-	-	-	-
	Oil & Grease	mg/L		0	-	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-	-
2	TSS	mg/L	Upon discharge	0	-	-	-	-	-	-	-
	Conductivity	µS/cm		0	-	-	-	-	-	-	-
	Oil & Grease	mg/L		0	-	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-	-
3	TSS	mg/L	Upon discharge	0	-	-	-	-	-	-	-
	Conductivity	µS/cm		0	-	-	-	-	-	-	-
	Oil & Grease	mg/L		0	-	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-	-
24	TSS	mg/L	Upon discharge	0	-	-	-	-	-	-	-
	Conductivity	µS/cm		0	-	-	-	-	-	-	-
	Oil & Grease	mg/L		0	-	-	-	-	-	-	-

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date of Max. Value Obtained	Min Value	Max or Only Value	100%ile Limit	Exceed -ance (Yes/ No)	Comment/s
	pH	pH		0	-	-	-	-	-	-	-
26	TSS	mg/L	Upon discharge	2	14/07/2021	-	-	22	50	No	Controlled release. Duplicate samples taken for same event.
	Conductivity	µS/cm		2	14/07/2021	14/07/2021	192	194	NA	NA	
	Oil & Grease	mg/L		2	14/07/2021	-	-	<5	10	No	
	pH	pH		2	14/07/2021	-	-	7.92	6.5-8.5	No	
27	TSS	mg/L	Upon discharge	0	-	-	-	-	-	-	-
	Conductivity	µS/cm		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 of Max. Value Obtained	Min Value	Mean Value	Median Value	Max or Only Value
9	Conductivity	µS/cm	6 monthly – (Mar- Sep)	0	-	-	-	-	-	-
	Lead	mg/L		0	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-
	Standing Water Level	metres		0	-	-	-	-	-	-
10	Conductivity	µS/cm	6 monthly – (Mar- Sep)	0	-	-	-	-	-	-
	Lead	mg/L		0	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-
	Standing Water Level	metres		0	-	-	-	-	-	-
12	Conductivity	µS/cm	6 monthly – (Mar- Sep)	0	-	-	-	-	-	-
	Lead	mg/L		0	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-
	Standing Water Level	metres		0	-	-	-	-	-	-
13	Conductivity	µS/cm	Quarterly - (Feb, May, Aug, Nov)	0	-	-	-	-	-	-
	Oil & Grease	mg/L		0	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-
	TSS	mg/L		0	-	-	-	-	-	-

Table 4 – Quarterly Attended Noise Monitoring

(Noise Limits Apply -35dB LAeq(15min) -Day, Evening and Night;45dB LA1(1min) -Night)

No attended noise monitoring data reported for July.

Table 5 – Monthly Monitoring (Blasts – Limits Apply)

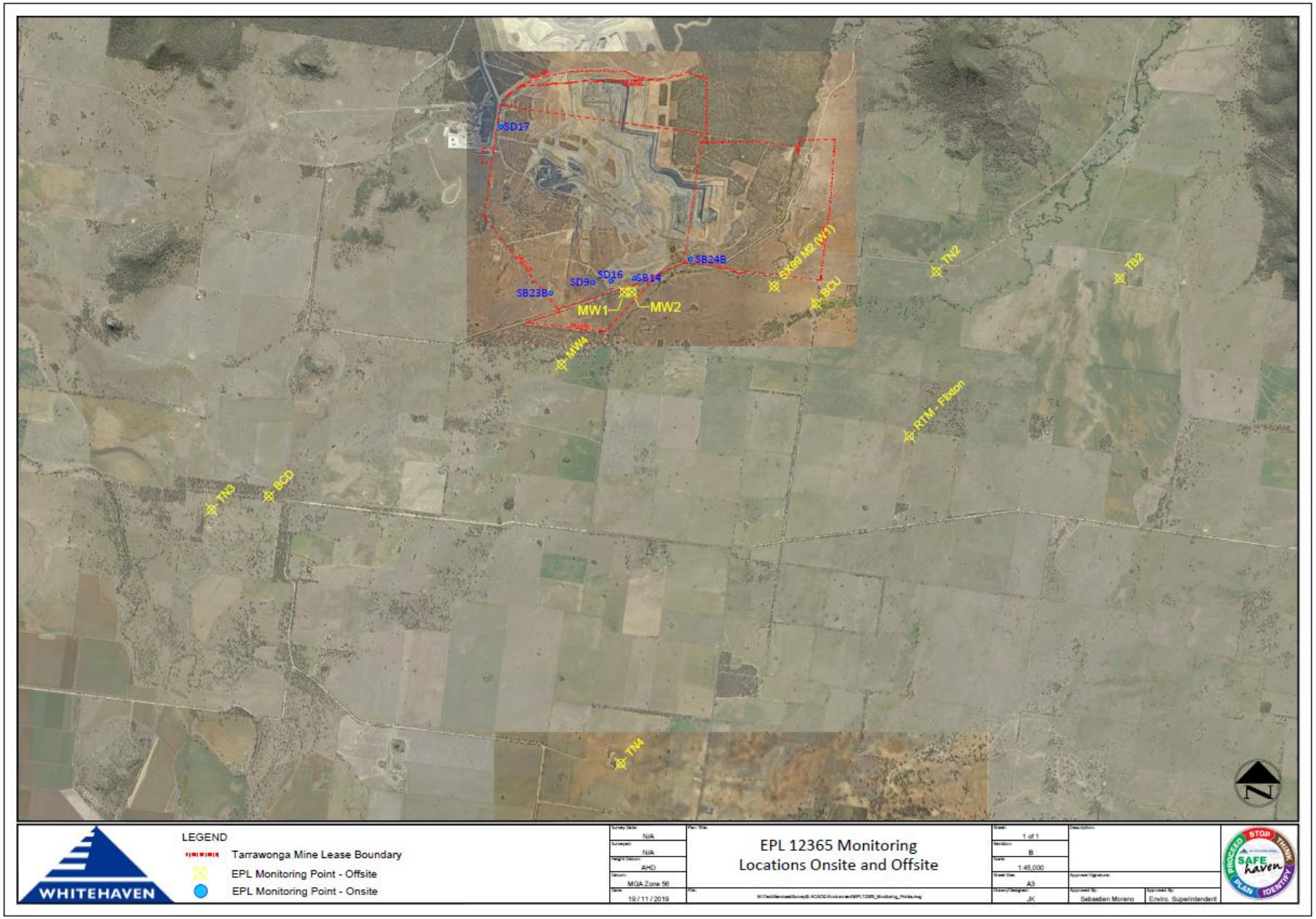
Location	Parameter	Units of Measure	Frequency	No. of Blasts for the Month	Average Value	Max Value	100%ile Limit	(Potential) Non-compliance /breach	Date of Max. Value Obtained
Coomalgah (TB2)	**Blast Noise**	**dB (Lin Peak)**	**Every Blast**	8	98.84	110.60	**120**	**Nil**	05/07/2021
	Blast Vibration	**mm/s**	**Every Blast**	8	0.23	0.42	**10**	**Nil**	01/07/2021

Table 6- Monthly Monitoring (Dust PM10 – No Limits apply)

Location	No. of samples required by licence	Lowest sample value	Mean of sample	Highest sample value
"Flixton" property* TEOM ($\mu g/m^3$)	Continuous	0	8.27	26.8

*****_Mine owned property – no limit apply_

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: August 2021
Obtained Date: 6/08/2021
Publication Date: 6/08/2021

Table 1 - No Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date of Max. Value Obtained	Min Value	Mean Value	Median Value	Max or Only Value	Comments
5	TSS	mg/L	Upon discharge	0	-	-	-	-	-	-	-
	Conductivity	µS/cm		0	-	-	-	-	-	-	-
	Oil & Grease	mg/L		0	-	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-	-
6	TSS	mg/L	Upon discharge	0	-	-	-	-	-	-	-
	Conductivity	µS/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 of Max. Value Obtained	Min Value	Max or Only Value	100%ile Limit	Exceed -ance (Yes/ No)	Comment/s
1	TSS	mg/L	Upon discharge	0	-	-	-	-	-	-	-
	Conductivity	µS/cm		0	-	-	-	-	-	-	-
	Oil & Grease	mg/L		0	-	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-	-
2	TSS	mg/L	Upon discharge	6	4-8-21 & 19-8-21	6-8-21	25	48	50	No	Controlled release. Duplicate samples taken for two events over multiple days.
	Conductivity	µS/cm		6	4-8-21 & 19-8-21	20-8-21	303	345	NA	No	
	Oil & Grease	mg/L		6	4-8-21 & 19-8-21	-	<5	<5	10	No	
	pH	pH		6	4-8-21 & 19-8-21	4-8-21	7.18	8.06	6.5-8.5	No	
3	TSS	mg/L	Upon discharge	0	-	-	-	-	-	-	-
	Conductivity	µS/cm		0	-	-	-	-	-	-	-
	Oil & Grease	mg/L		0	-	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-	-
24	TSS	mg/L		0	-	-	-	-	-	-	-

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date of Max. Value Obtained	Min Value	Max or Only Value	100%ile Limit	Exceed -ance (Yes/ No)	Comment/s
	Conductivity	µS/cm	Upon discharge	0	-	-	-	-	-	-	-
	Oil & Grease	mg/L		0	-	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-	-
26	TSS	mg/L	Upon discharge	4	4-8-21 & 19-8-21	19-08-21	<5	<5	50	No	Controlled release. Duplicate samples taken for two events.
	Conductivity	µS/cm		4	4-8-21 & 19-8-21	19-08-21	302	302	NA	No	
	Oil & Grease	mg/L		4	4-8-21 & 19-8-21	19-08-21	<5	<5	10	No	
	pH	pH		4	4-8-21 & 19-8-21	19-08-21	7.36	7.59	6.5-8.5	No	
27	TSS	mg/L	Upon discharge	0	-	-	-	-	-	-	-
	Conductivity	µS/cm		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 of Max. Value Obtained	Min Value	Mean Value	Median Value	Max or Only Value
9	Conductivity	µS/cm	6 monthly – (Mar- Sep)	0	-	-	-	-	-	-
	Lead	mg/L		0	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-
	Standing Water Level	metres		0	-	-	-	-	-	-
10	Conductivity	µS/cm	6 monthly – (Mar- Sep)	0	-	-	-	-	-	-
	Lead	mg/L		0	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-
	Standing Water Level	metres		0	-	-	-	-	-	-
12	Conductivity	µS/cm	6 monthly – (Mar- Sep)	0	-	-	-	-	-	-
	Lead	mg/L		0	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-
	Standing Water Level	metres		0	-	-	-	-	-	-
13	Conductivity	µS/cm	Quarterly - (Feb, May, Aug, Nov)	1	16-8-2021	16-8-2021				1,240
	Oil & Grease	mg/L		1	16-8-2021	16-8-2021				<5
	pH	pH		1	16-8-2021	16-8-2021				8.84
	TSS	mg/L		1	16-8-2021	16-8-2021				11

Table 4 – Quarterly Attended Noise Monitoring

(Noise Limits Apply -35dB LAeq(15min) -Day, Evening and Night;45dB LA1(1min) -Night)

Next quarterly attended noise monitoring conducted in September.

Table 5 – Monthly Monitoring (Blasts – Limits Apply)

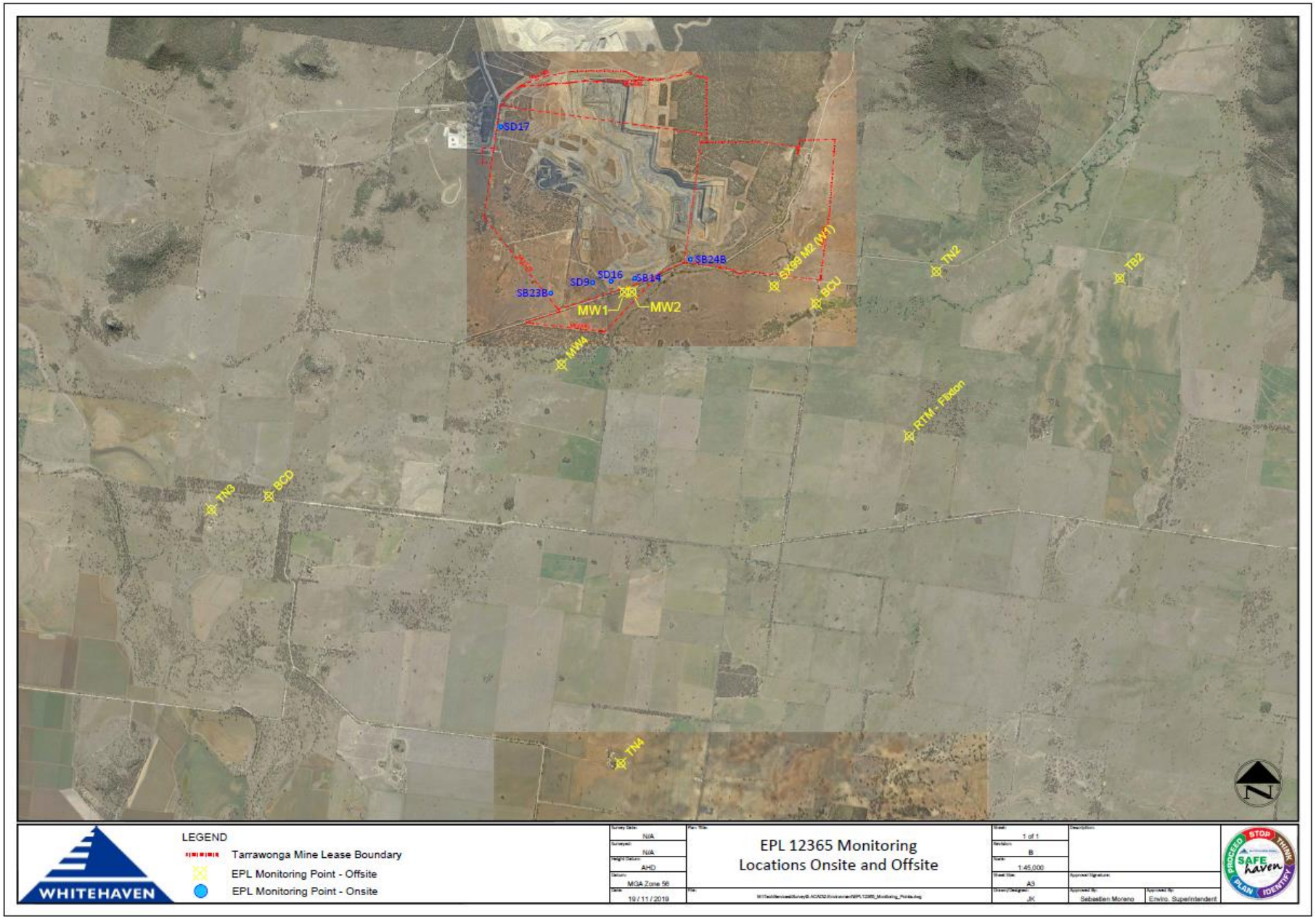
Location	Parameter	Units of Measure	Frequency	No. of Blasts for the Month	Average Value	Max Value	100%ile Limit	(Potential) Non-compliance /breach	Date of Max. Value Obtained
Coomalgah (TB2)	**Blast Noise**	**dB (Lin Peak)**	**Every Blast**	6	101.80	113.4	**120**	**Nil**	30-08-21
	Blast Vibration	**mm/s**	**Every Blast**	6	0.16	0.25	**10**	**Nil**	30-08-21

Table 6- Monthly Monitoring (Dust PM10 – No Limits apply)

Location	No. of samples required by licence	Lowest sample value	Mean of sample	Highest sample value
"Flixton" property* TEOM ($\mu g/m^3$)	Continuous	0	11.3	25.4

*****_Mine owned property – no limit apply_

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: September 2021
Obtained Date: 5/10/2021
Publication Date:

Table 1 - No Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date of Max. Value Obtained	Min Value	Mean Value	Median Value	Max or Only Value	Comments
5	TSS	mg/L	Upon discharge	0	-	-	-	-	-	-	-
	Conductivity	µS/cm		0	-	-	-	-	-	-	-
	Oil & Grease	mg/L		0	-	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-	-
6	TSS	mg/L	Upon discharge	0	-	-	-	-	-	-	-
	Conductivity	µS/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 of Max. Value Obtained	Min Value	Max or Only Value	100%ile Limit	Exceed -ance (Yes/ No)	Comment/s
1	TSS	mg/L	Upon discharge	0	-	-	-	-	-	-	-
	Conductivity	µS/cm		0	-	-	-	-	-	-	-
	Oil & Grease	mg/L		0	-	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-	-
2	TSS	mg/L	Upon discharge	2	10-09-21	-	-	22	50	No	Controlled release - Duplicate samples taken for same event.
	Conductivity	µS/cm		2	10-09-21	-	-	330	NA	NA	
	Oil & Grease	mg/L		2	10-09-21	-	-	<5	10	No	
	pH	pH		2	10-09-21	-	-	8.08	6.5-8.5	No	
3	TSS	mg/L	Upon discharge	0	-	-	-	-	-	-	-
	Conductivity	µS/cm		0	-	-	-	-	-	-	-
	Oil & Grease	mg/L		0	-	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-	-
24	TSS	mg/L	Upon discharge	0	-	-	-	-	-	-	-
	Conductivity	µS/cm		0	-	-	-	-	-	-	-
	Oil & Grease	mg/L		0	-	-	-	-	-	-	-

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date of Max. Value Obtained	Min Value	Max or Only Value	100%ile Limit	Exceed -ance (Yes/ No)	Comment/s
	pH	pH		0	-	-	-	-	-	-	-
26	TSS	mg/L	Upon discharge	0	-	-	-	-	-	-	-
	Conductivity	µS/cm		0	-	-	-	-	-	-	-
	Oil & Grease	mg/L		0	-	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-	-
27	TSS	mg/L	Upon discharge	0	-	-	-	-	-	-	-
	Conductivity	µS/cm		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 of Max. Value Obtained	Min Value	Mean Value	Median Value	Max or Only Value
9	Conductivity	µS/cm	6 monthly – (Mar- Sep)	1	02-09-21	02-09-21	-	-	-	3,530
	Lead	mg/L		1	02-09-21	02-09-21	-	-	-	0.008
	pH	pH		1	02-09-21	02-09-21	-	-	-	7.57
	Standing Water Level	metres		1	02-09-21	02-09-21	-	-	-	8.81
10	Conductivity	µS/cm	6 monthly – (Mar- Sep)	1	02-09-21	02-09-21	-	-	-	615
	Lead	mg/L		1	02-09-21	02-09-21	-	-	-	0.002
	pH	pH		1	02-09-21	02-09-21	-	-	-	6.97
	Standing Water Level	metres		1	02-09-21	02-09-21	-	-	-	4.21
12	Conductivity	µS/cm	6 monthly – (Mar- Sep)	1	02-09-21	02-09-21	-	-	-	3,100
	Lead	mg/L		1	02-09-21	02-09-21	-	-	-	0.003
	pH	pH		1	02-09-21	02-09-21	-	-	-	7.62
	Standing Water Level	metres		1	02-09-21	02-09-21	-	-	-	10.1
13	Conductivity	µS/cm	Quarterly - (Feb, May, Aug, Nov)	0	-	-	-	-	-	-
	Oil & Grease	mg/L		0	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-
	TSS	mg/L		0	-	-	-	-	-	-

Table 4 – Quarterly Attended Noise Monitoring

(Noise Limits Apply -35dB LAeq(15min) -Day, Evening and Night;45dB LA1(1min) -Night)

(Extracts from consultants' report for the quarter)

Date	Time	Total Noise Levels					Mine noise level L_{Aeq} (dB)	Wind Speed (m/s)	Wind Direction (°)	Stability Category	Rain (mm)
		L_{Aeq}	L_{Amax}	L_{Amin}	L_{A10}	L_{A90}					
TN2 (Coomalgah)											
13/09/2021	09:26	33	54	24	31	26	26	2.2	234	C	0
	09:42	33	58	24	31	25	26	1.9	239	D	0
	09:58	36	60	24	32	26	<30	1.8	199	A	0
	10:14	33	58	26	33	27	<30	2.9	201	C	0
	11:14	37	65	27	39	29	<30	**3.4**	243	B	0
	11:30	32	51	26	35	28	<35	2.9	183	C	0
	21:26	31	43	25	33	28	31	1.0	22	E	0
	21:42	33	42	29	35	31	33	1.6	33	E	0
	22:00	31	41	26	33	28	31	0.7	117	F	0
	22:16	30	47	25	33	28	30	2.0	56	D	0
	22:32	28	38	21	30	24	28	0.7	93	D	0
	22:47	25	34	20	26	22	25	0.6	37	F	0
14/09/2021	12:24	33	56	25	35	27	<30	2.8	179	A	0
	12:44	37	63	23	34	26	<28	**4.6**	153	D	0
	13:00	33	52	25	35	28	<28	**5.4**	164	D	0
	13:15	37	55	28	40	32	<30	**5.2**	155	D	0
	13:30	38	54	27	42	30	<20 (I/A)	**5.3**	169	C	0
	13:46	36	58	24	38	27	<28	**3.9**	175	C	0

Date	Time	Total Noise Levels					Mine noise level L_{Aeq} (dB)	Wind Speed (m/s)	Wind Direction (°)	Stability Category	Rain (mm)
		L_{Aeq}	L_{Amax}	L_{Amin}	L_{A10}	L_{A90}					
	21:24	22	34	18	23	19	<20	2.1	102	D	0
	21:39	22	31	18	24	20	<20	**3.6**	103	D	0
	22:00	20	33	18	22	19	<9 (I/A)	2.1	108	D	0
	22:15	19	28	16	21	17	<18	2.6	88	E	0
	22:30	17	31	16	18	16	<6 (I/A)	0.3	331	F	0
	22:46	17	34	16	17	16	<6 (I/A)	1.3	244	E	0
15/09/2021	10:31	28	49	22	31	24	<28	1.1	216	A	0
	10:49	31	55	21	34	23	<26	3.0	176	C	0
	11:04	31	52	22	32	25	<26	2.5	83	A	0
	11:21	34	52	23	36	25	<25	**4.7**	220	D	0
	11:36	31	45	23	34	25	<25	**4.7**	169	D	0
	11:52	32	50	24	35	26	<26	**4.1**	212	C	0
	21:09	19	33	16	21	17	<19	1.6	62	F	0
	21:25	27	39	22	30	24	<14 (I/A)	1.7	61	F	0
	22:00	22	36	19	22	20	<20	1.0	43	D	0
	22:17	21	39	17	23	18	<18	1.8	60	D	0
	22:33	23	48	18	23	19	<9 (I/A)	2.5	93	E	0
	22:49	19	38	16	20	17	<7 (I/A)	1.7	78	D	0
16/09/2021	11:31	33	57	24	32	25	<25	**3.2**	151	B	0
	11:46	33	60	24	33	25	<25	**3.8**	203	A	0
	12:01	31	53	24	33	25	<25	2.8	135	B	0
	13:46	30	49	24	32	25	25	2.0	210	A	0
	14:02	33	58	25	35	27	<27	1.7	171	A	0

Date	Time	Total Noise Levels					Mine noise level L_{Aeq} (dB)	Wind Speed (m/s)	Wind Direction (°)	Stability Category	Rain (mm)
		L_{Aeq}	L_{Amax}	L_{Amin}	L_{A10}	L_{A90}					
	14:19	31	48	24	33	26	<26	3.0	182	A	0
	21:21	20	39	16	22	18	20	1.6	6	E	0
	21:39	24	40	17	27	19	24	0.7	66	F	0
	22:00	29	50	19	31	21	<25	2.3	33	E	0
	22:17	23	31	17	25	19	23	2.5	40	E	0
	22:32	20	41	17	20	18	20	**2.4**	46	**F**	0
	22:48	22	50	16	22	17	22	2.1	42	E	0
TN3 (Barbers Lagoon)											
13/09/2021	12:47	47	56	39	51	40	<30 (I/A)	**6**	263	D	0
	13:30	47	54	42	49	44	<34 (I/A)	**6.2**	245	C	0
	13:49	45	55	36	49	39	<29 (I/A)	**6.3**	284	D	0
	14:06	44	55	33	49	36	<26 (I/A)	**8.1**	266	D	0
	14:24	48	68	34	49	38	<28 (I/A)	**6.6**	242	D	0
	14:41	43	49	33	48	39	<29 (I/A)	**5.5**	274	C	0
	20:35	24	49	20	23	21	<11 (I/A)	1.0	269	F	0
	20:50	19	39	17	20	17	<7 (I/A)	1.6	268	E	0
	23:22	22	42	16	23	17	<7 (I/A)	0.9	7	F	0
	23:38	19	41	16	20	16	<6 (I/A)	1.2	31	D	0
	23:55	23	46	16	20	16	<6 (I/A)	1.7	334	F	0
	00:10	20	43	16	23	17	<7 (I/A)	1.6	38	D	0
14/09/2021	12:47	43	49	37	48	38	<28 (I/A)	**4.6**	172	D	0
	13:05	45	52	35	48	38	<28 (I/A)	**6.2**	161	D	0
	13:23	40	48	35	42	38	<28 (I/A)	**5.2**	162	D	0

Date	Time	Total Noise Levels					Mine noise level L_{Aeq} (dB)	Wind Speed (m/s)	Wind Direction (°)	Stability Category	Rain (mm)
		L_{Aeq}	L_{Amax}	L_{Amin}	L_{A10}	L_{A90}					
	13:53	42	48	35	45	38	<28 (I/A)	**4.4**	158	D	0
	14:11	45	57	36	48	40	<30 (I/A)	**4.4**	164	A	0
	14:29	45	56	37	48	40	<30 (I/A)	**5.1**	143	D	0
	20:25	23	39	18	24	20	20	2.0	71	E	0
	20:41	22	33	18	24	19	<20	**3.4**	105	E	0
	23:25	27	43	21	30	23	27	1.6	246	E	0
	23:45	23	41	19	25	21	23	1.6	298	E	0
	00:00	24	45	18	26	21	24	2.3	246	D	0
	00:19	25	44	18	27	20	<25	1.4	269	D	0
15/09/2021	11:49	33	39	23	36	28	<18 (I/A)	**3.4**	192	B	0
	12:06	34	53	24	37	28	<18 (I/A)	**3.2**	195	B	0
	12:27	35	42	23	38	26	<16 (I/A)	**3.3**	188	B	0
	12:47	32	39	25	34	27	<17 (I/A)	**3.2**	200	D	0
	14:05	33	40	24	36	25	<15 (I/A)	2.9	237	D	0
	14:23	30	37	24	33	26	<16 (I/A)	**5.1**	228	C	0
	20:04	21	38	18	23	19	<20	1.4	51	F	0
	20:20	26	43	20	27	22	<20	2.1	59	E	0
	23:31	21	33	18	23	19	21	0.9	224	F	0
	23:47	22	38	18	22	19	22	1.7	99	D	0
	00:02	21	31	18	23	20	<21	1.2	108	D	0
	00:18	26	34	20	28	22	26	**2.4**	183	**F**	0
16/09/2021	11:36	34	42	28	36	30	<20 (I/A)	1.4	121	A	0
	11:58	36	43	24	38	26	<16 (I/A)	1.8	163	A	0

Date	Time	Total Noise Levels					Mine noise level L_{Aeq} (dB)	Wind Speed (m/s)	Wind Direction (°)	Stability Category	Rain (mm)
		L_{Aeq}	L_{Amax}	L_{Amin}	L_{A10}	L_{A90}					
	12:22	38	45	29	41	34	<24 (I/A)	2.1	207	A	0
	12:46	37	44	31	40	33	<23 (I/A)	2.6	216	A	0
	13:04	33	41	28	34	31	<21 (I/A)	2.8	275	B	0
	13:34	33	39	26	37	27	<17 (I/A)	1.9	263	A	0
	20:15	26	44	17	29	19	19	2.4	36	E	0
	20:32	26	41	17	28	19	<9 (I/A)	2.3	39	E	0
	23:26	33	46	24	36	28	<30	1.8	26	D	0
	23:45	32	46	23	35	27	<30	1.0	331	F	0
	00:15	33	43	24	36	28	<30	0.5	268	F	0
	00:00	32	44	24	35	27	<30	0.8	226	F	0
TN4 (Bungalow)											
13/09/2021	09:17	34	64	23	31	25	<15 (I/A)	1.9	264	D	0
	09:36	27	36	23	29	25	<15 (I/A)	2.3	219	A	0
	10:08	36	62	25	37	27	<17 (I/A)	2.5	200	B	0
	11:09	39	49	26	43	29	<35	**3.4**	249	B	0
	11:35	34	50	24	37	26	<30	**4**	217	C	0
	12:03	40	50	32	44	34	<24 (I/A)	**5.7**	296	B	0
	21:36	20	28	18	22	19	20	1.2	36	F	0
	21:53	19	25	17	20	17	19	1.5	14	D	0
	22:13	22	36	17	26	18	22	1.3	93	F	0
	22:31	20	26	17	21	17	20	0.7	93	D	0
	22:48	21	24	18	22	19	21	0.6	37	F	0
	23:04	19	27	17	21	18	19	0.9	74	F	0

Date	Time	Total Noise Levels					Mine noise level L_{Aeq} (dB)	Wind Speed (m/s)	Wind Direction (°)	Stability Category	Rain (mm)
		L_{Aeq}	L_{Amax}	L_{Amin}	L_{A10}	L_{A90}					
14/09/2021	10:35	27	36	22	29	23	<13 (I/A)	2.5	154	C	0
	10:53	28	36	22	31	24	<14 (I/A)	3.0	186	A	0
	11:09	38	44	25	42	31	<21 (I/A)	2.6	183	B	0
	11:29	40	46	29	42	31	<21 (I/A)	**4.2**	140	D	0
	11:46	42	50	32	45	37	<27 (I/A)	**4.3**	165	D	0
	12:05	36	46	26	39	29	<19 (I/A)	**3.5**	141	B	0
	21:20	24	34	21	27	22	<12 (I/A)	2.1	102	D	0
	21:38	22	25	21	23	21	<11 (I/A)	**3.6**	103	D	0
	22:01	21	27	18	22	19	<9 (I/A)	2.1	108	D	0
	22:16	22	35	19	24	20	<10 (I/A)	2.6	88	E	0
	22:36	19	25	17	20	18	<8 (I/A)	0.9	272	F	0
	22:52	22	26	19	23	20	<10 (I/A)	1.7	241	E	0
15/09/2021	09:34	33	40	24	37	27	<17 (I/A)	2.7	130	C	0
	09:51	32	39	24	35	26	<16 (I/A)	**3.5**	155	C	0
	10:07	36	43	25	39	29	<19 (I/A)	**3.6**	148	B	0
	10:22	34	39	27	36	29	<19 (I/A)	**3.7**	126	B	0
	10:38	35	44	28	37	30	<20 (I/A)	**3.8**	159	A	0
	11:05	36	42	27	39	30	<20 (I/A)	2.1	159	A	0
	21:28	19	31	17	20	18	<8 (I/A)	1.7	61	F	0
	21:44	19	26	17	21	18	<8 (I/A)	1.7	121	D	0
	22:00	18	22	17	19	18	<8 (I/A)	1.0	43	D	0
	22:18	18	22	17	19	18	<8 (I/A)	1.8	60	D	0
	22:34	18	20	17	19	17	<7 (I/A)	2.5	93	E	0

Date	Time	Total Noise Levels					Mine noise level L_{Aeq} (dB)	Wind Speed (m/s)	Wind Direction (°)	Stability Category	Rain (mm)
		L_{Aeq}	L_{Amax}	L_{Amin}	L_{A10}	L_{A90}					
	22:49	18	21	17	19	17	<7 (I/A)	1.7	78	D	0
16/09/2021	09:34	26	31	23	27	24	<14 (I/A)	2.9	149	D	0
	09:49	28	36	24	29	25	<15 (I/A)	**3.1**	89	B	0
	10:06	28	35	24	30	26	<16 (I/A)	**4**	131	B	0
	10:24	30	44	26	31	27	<17 (I/A)	**3.8**	162	D	0
	10:45	29	42	26	30	27	<17 (I/A)	**3.7**	185	C	0
	11:02	29	35	26	30	27	<17 (I/A)	**3.6**	173	B	0
	21:29	19	24	17	21	18	<8 (I/A)	1.1	352	E	0
	21:45	21	24	19	23	20	<10 (I/A)	1.2	61	D	0
	22:00	23	30	18	26	19	23	2.3	33	E	0
	22:16	23	27	20	24	21	23	2.5	40	E	0
	22:39	25	28	24	26	25	25	2.3	48	E	0
	22:58	26	29	23	27	24	26	2.2	48	E	0

Notes:

- Acronyms used: I/A = Inaudible, m/s = metres/second, dB = decibel.
- Light-blue coloured cells = Non-compliant weather conditions not included in calculation of average for that period. Non-compliant weather conditions are any:
  a) Wind speeds greater than 3m/s at 10m above ground level
  b) Stability Category F temperature inversion conditions and wind speeds greater than 2m/s, 10m above the ground
  c) Stability category G temperature inversions.
- Real time weather conditions retrieved from the mine, after monitoring occurs.

Attended noise monitoring was conducted at the “Bungalow” (TN4), “Barbers Lagoon” (TN3) and “Matong” (TN2) properties from 13th to the 16th of September 2021. The summary table (Table 4) displays a comprehensive results table displaying all measurements. The noise criterion for the mine is 35dB(A) Leq (15 min) for all operating times.

Noise from the mine must not exceed 45 dB(A) L1 (1 min) between 10 pm and 7 am. This is to minimise the potential for sleep disturbance as a result of individual loud noises from the mine. The results of the sleep disturbance monitoring show that the measured L1 (1 min) noise level did not exceed the sleep disturbance criterion.

The results above show that noise emissions from the mine did not exceed the operational noise criterion at the “Barbers Lagoon”, “Bungalow” or “Matong” monitoring locations during the monitoring event during the entire monitoring period.

Table 5 – Monthly Monitoring (Blasts – Limits Apply)

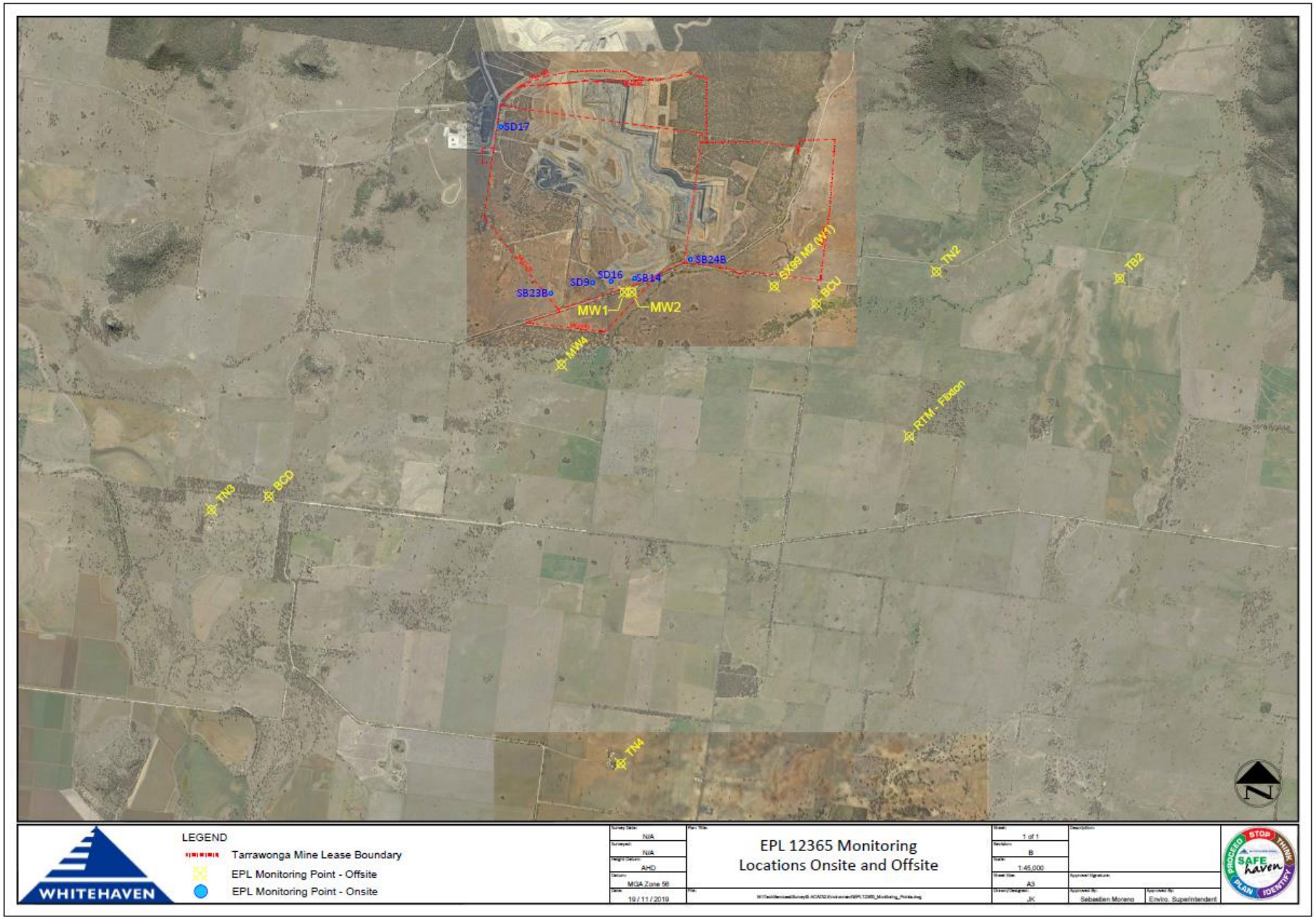
Location	Parameter	Units of Measure	Frequency	No. of Blasts for the Month	Average Value	Max Value	100%ile Limit	(Potential) Non-compliance /breach	Date of Max. Value Obtained
Coomalgah (TB2)	**Blast Noise**	**dB (Lin Peak)**	**Every Blast**	7	96.34	103.70	**120**	**Nil**	30-09-21
	Blast Vibration	**mm/s**	**Every Blast**	7	0.51	1.40	**10**	**Nil**	03-09-21

Table 6- Monthly Monitoring (Dust PM10 – No Limits apply)

Location	No. of samples required by licence	Lowest sample value	Mean of sample	Highest sample value
"Flixton" property* TEOM ($\mu g/m^3$)	Continuous	0	15.1	32.8

*****_Mine owned property – no limit apply_

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: October 2021
Obtained Date: 12/11/2021
Publication Date: 12/11/2021

Table 1 - No Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date of Max. Value Obtained	Min Value	Mean Value	Median Value	Max or Only Value	Comments
5	TSS	mg/L	Upon discharge	0	-	-	-	-	-	-	-
	Conductivity	µS/cm		0	-	-	-	-	-	-	-
	Oil & Grease	mg/L		0	-	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-	-
6	TSS	mg/L	Upon discharge	0	-	-	-	-	-	-	-
	Conductivity	µS/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 of Max. Value Obtained	Min Value	Max or Only Value	100%ile Limit	Exceed -ance (Yes/ No)	Comment/s
1	TSS	mg/L	Upon discharge	0	-	-	-	-	-	-	-
	Conductivity	µS/cm		0	-	-	-	-	-	-	-
	Oil & Grease	mg/L		0	-	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-	-
2	TSS	mg/L	Upon discharge	2	13/10/21	13/10/21	-	-	50	NA	Limits for TSS do not apply as discharge occurred after 38.4mm of rain was received. Duplicate sample taken for same event.
	Conductivity	µS/cm		2	13/10/21	13/10/21	-	173	NA	-	
	Oil & Grease	mg/L		2	13/10/21	13/10/21	-	<5	10	No	
	pH	pH		2	13/10/21	13/10/21	6.51	7.77	6.5-8.5	No	
3	TSS	mg/L	Upon discharge	0	-	-	-	-	-	-	-
	Conductivity	µS/cm		0	-	-	-	-	-	-	-
	Oil & Grease	mg/L		0	-	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-	-
24	TSS	mg/L	Upon discharge	0	-	-	-	-	-	-	-
	Conductivity	µS/cm		0	-	-	-	-	-	-	-
	Oil & Grease	mg/L		0	-	-	-	-	-	-	-

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date of Max. Value Obtained	Min Value	Max or Only Value	100%ile Limit	Exceed -ance (Yes/ No)	Comment/s
	pH	pH		0	-	-	-	-	-	-	-
26	TSS	mg/L	Upon discharge	0	-	-	-	-	-	-	-
	Conductivity	µS/cm		0	-	-	-	-	-	-	-
	Oil & Grease	mg/L		0	-	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-	-
27	TSS	mg/L	Upon discharge	0	-	-	-	-	-	-	-
	Conductivity	µS/cm		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 of Max. Value Obtained	Min Value	Mean Value	Median Value	Max or Only Value
9	Conductivity	µS/cm	6 monthly – (Mar- Sep)	0	-	-	-	-	-	-
	Lead	mg/L		0	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-
	Standing Water Level	metres		0	-	-	-	-	-	-
10	Conductivity	µS/cm	6 monthly – (Mar- Sep)	0	-	-	-	-	-	-
	Lead	mg/L		0	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-
	Standing Water Level	metres		0	-	-	-	-	-	-
12	Conductivity	µS/cm	6 monthly – (Mar- Sep)	0	-	-	-	-	-	-
	Lead	mg/L		0	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-
	Standing Water Level	metres		0	-	-	-	-	-	-
13	Conductivity	µS/cm	Quarterly - (Feb, May, Aug, Nov)	0	-	-	-	-	-	-
	Oil & Grease	mg/L		0	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-
	TSS	mg/L		0	-	-	-	-	-	-

Table 4 – Quarterly Attended Noise Monitoring

(Noise Limits Apply -35dB LAeq(15min) -Day, Evening and Night;45dB LA1(1min) -Night)

No Noise Monitoring data reported for October

Table 5 – Monthly Monitoring (Blasts – Limits Apply)

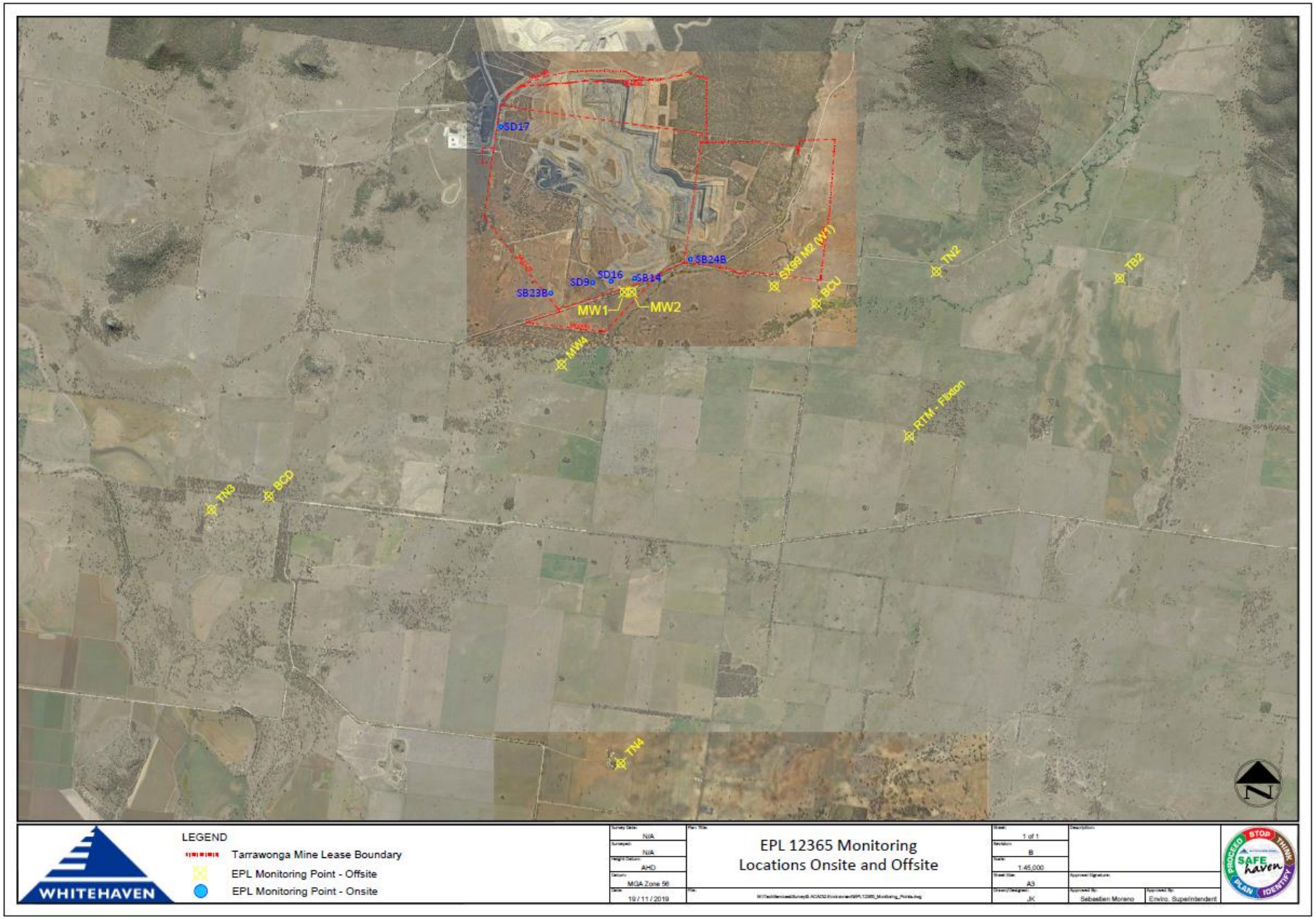
Location	Parameter	Units of Measure	Frequency	No. of Blasts for the Month	Average Value	Max Value	100%ile Limit	(Potential) Non-compliance /breach	Date of Max. Value Obtained
Coomalgah (TB2)	**Blast Noise**	**dB (Lin Peak)**	**Every Blast**	4	102.60	109.90	**120**	**Nil**	15/10/2021
	Blast Vibration	**mm/s**	**Every Blast**	4	0.48	1.29	**10**	**Nil**	22/10/2021

Table 6- Monthly Monitoring (Dust PM10 – No Limits apply)

Location	No. of samples required by licence	Lowest sample value	Mean of sample	Highest sample value
"Flixton" property* TEOM ($\mu g/m^3$)	Continuous	4.7	16.7	39.2

*****_Mine owned property – no limit apply_

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: November 2021
Obtained Date: 10/12/2021
Publication Date: 13/12/2021

Table 1 - No Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date of Max. Value Obtained	Min Value	Mean Value	Median Value	Max or Only Value	Comments
5	TSS	mg/L	Upon discharge	1	30th Nov	30/11/2021	-	-	-	14	Sample taken following discharge.
	Conductivity	µS/cm					-	-	-	278	
	Oil & Grease	mg/L					-	-	-	5	
	pH	pH					-	-	-	7.65	
6	TSS	mg/L	Upon discharge	2	21st & 30th Nov	21/11/2021	5	-	-	45	Sample taken following discharge.
	Conductivity	µS/cm				30/11/2021	93	-	-	235	
	Oil & Grease	mg/L				21/11/2021		-	-	5	
	pH	pH				30/11/2021	6.88	-	-	7.53	

Table 2 - Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date of Max. Value Obtained	Min Value	Max or Only Value	100%ile Limit	Exceed -ance (Yes/ No)	Comment/s
1	TSS	mg/L	Upon discharge	2	17th, 22nd, 29th Nov	29/11/2021	297	505	50	No	TSS limit not applicable due to discharge after >38.4mm of rain
	Conductivity	µS/cm				22/11/2021	156	202	N/A	N/A	
	Oil & Grease	mg/L				22/11/2021	<5	5	10	No	
	pH	pH				22/11/2021	7.65	7.97	6.5-8.5	No	
2	TSS	mg/L	Upon discharge	7	3rd, 5th, 7th, 15th, 18th, 21st Nov.	07/11/2021	8	182	50	No	TSS limit not applicable due to discharge after >38.4mm of rain Multiple samples taken throughout the month not all due to rain but due to controlled releases where TSS <50mg/L.
	Conductivity	µS/cm				05/11/2021	54	390	N/A	N/A	
	Oil & Grease	mg/L				03/11/2021	5	<10	10	No	
	pH	pH				15/11/2021	7.26	8.3	6.5-8.5	No	

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date of Max. Value Obtained	Min Value	Max or Only Value	100%ile Limit	Exceed -ance (Yes/ No)	Comment/s
3	TSS	mg/L	Upon discharge	3	21st, 22nd, 29th Nov.	21/11/2021	34	896	50	No	TSS limit not applicable due to discharge after >38.4mm of rain
	Conductivity	µS/cm				22/11/2021	322	457	N/A	N/A	
	Oil & Grease	mg/L				21/11/2021	<5	5	10	No	
	pH	pH				21/11/2021	7.28	7.8	6.5-8.5	No	
26	TSS	mg/L	Upon discharge	0	-	-	-	-	-	-	-
	Conductivity	µS/cm				-	-	-	-	-	
	Oil & Grease	mg/L				-	-	-	-	-	
	pH	pH				-	-	-	-	-	
27	TSS	mg/L	Upon discharge	2	21st, 22nd Nov.	21/11/2021	634	676	50	No	TSS limit not applicable due to discharge after >38.4mm of rain
	Conductivity	µS/cm				21/11/2021	118	126	N/A	N/A	
	Oil & Grease	mg/L				21/11/2021	-	5	10	No	
	pH	pH				21/11/2021	7.58	7.79	6.5-8.5	No	

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 of Max. Value Obtained	Min Value	Mean Value	Median Value	Max or Only Value
9	Conductivity	µS/cm	6 monthly – (Mar- Sep)	0	-	-	-	-	-	-
	Lead	mg/L		0	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-
	Standing Water Level	metres		0	-	-	-	-	-	-
10	Conductivity	µS/cm	6 monthly – (Mar- Sep)	0	-	-	-	-	-	-
	Lead	mg/L		0	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-
	Standing Water Level	metres		0	-	-	-	-	-	-
12	Conductivity	µS/cm	6 monthly – (Mar- Sep)	0	-	-	-	-	-	-
	Lead	mg/L		0	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-
	Standing Water Level	metres		0	-	-	-	-	-	-
13	Conductivity	µS/cm	Quarterly - (Feb, May, Aug, Nov)	1	19/11/2021	19/11/2021	-	-	-	1,970
	Oil & Grease	mg/L		1	19/11/2021	19/11/2021	-	-	-	5
	pH	pH		1	19/11/2021	19/11/2021	-	-	-	8.78
	TSS	mg/L		1	19/11/2021	19/11/2021	-	-	-	79

Table 4 – Quarterly Attended Noise Monitoring

(Noise Limits Apply -35dB LAeq(15min) -Day, Evening and Night;45dB LA1(1min) -Night)

No Noise Monitoring data reported for November

Table 5 – Monthly Monitoring (Blasts – Limits Apply)

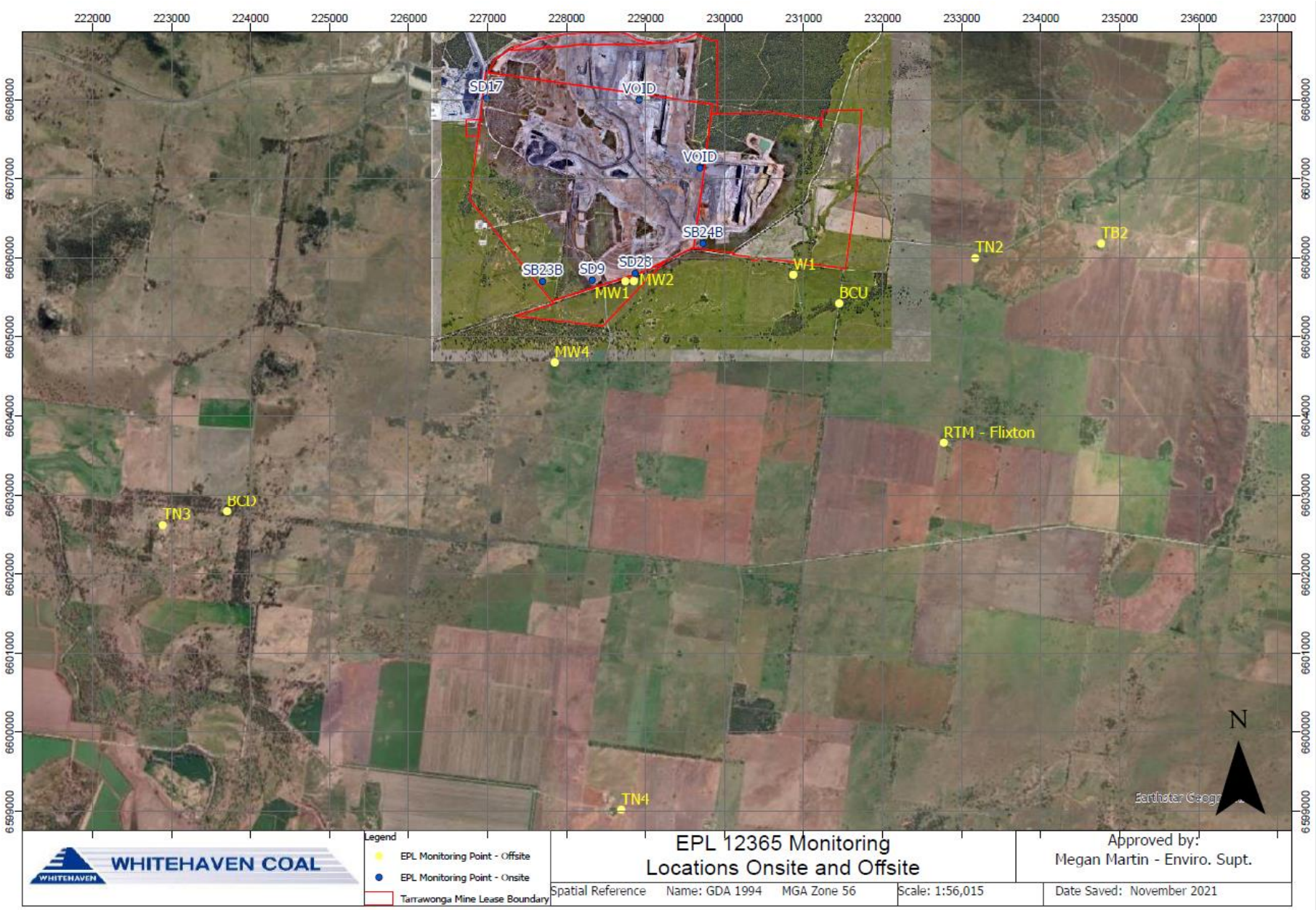
Location	Parameter	Units of Measure	Frequency	No. of Blasts for the Month	Average Value	Max Value	100%ile Limit	(Potential) Non-compliance /breach	Date of Max. Value Obtained
Coomalgah (TB2)	**Blast Noise**	**dB (Lin Peak)**	**Every Blast**	2	100.95	106.9	**120**	**Nil**	10-11-21
	Blast Vibration	**mm/s**	**Every Blast**	2	0.07	0.07	**10**	**Nil**	10-11-21

Table 6- Monthly Monitoring (Dust PM10 – No Limits apply)

Location	No. of samples required by licence	Lowest sample value	Mean of sample	Highest sample value
"Flixton" property* TEOM ($\mu g/m^3$)	Continuous	0	10.6	42.2

*****_Mine owned property – no limit apply_

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: December 2021
Obtained Date: 14/01/2022
Publication Date: 15/01/2022

Table 1 - No Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date of Max. Value Obtained	Min Value	Mean Value	Median Value	Max or Only Value	Comments
5	TSS	mg/L	Upon discharge	1	8/12	8/12	-	-	-	37	BCU was unable to be reached most of the month due to flooding and road closures. One sample completed.
	Conductivity	µS/cm		1			-	-	-	202	
	Oil & Grease	mg/L		1			-	-	-	<5	
	pH	pH		1			-	-	-	7.5	
6	TSS	mg/L	Upon discharge	3	8/12, 9/12, 17/12	-	-	-	-	<5	
	Conductivity	µS/cm		3		17/12	225	-	-	263	
	Oil & Grease	mg/L		3		-	-	-	-	<5	
	pH	pH		3		9/12	7.61	7.73	7.71	8.0	

Table 2 - Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date of Max. Value Obtained	Min Value	Max or Only Value	100%ile Limit	Exceed -ance (Yes/ No)	Comment/s
1	TSS	mg/L	Upon discharge	1	9/12	9/12	-	330	50	No	TSS Limit not applicable due to discharge >38.4mm over 5 days
	Conductivity	µS/cm		1			-	168	NA	NA	
	Oil & Grease	mg/L		1			-	<5	10	No	
	pH	pH		1			-	7.24	6.5-8.5	No	
2	TSS	mg/L	Upon discharge	3	7/12, 9/12, 17/12.	9/12	25	35	50	No	Multiple samples taken throughout the month, not all due to rain but as a controlled release as water quality was within conditions.
	Conductivity	µS/cm		3		7/12	330	358	NA	NA	
	Oil & Grease	mg/L		3		-	-	<5	10	No	
	pH	pH		3		9/12	7.2	7.88	6.5-8.5	No	
3	TSS	mg/L	Upon discharge	1	17/12	-	-	190	50	Yes	TSS limit breached as 38.4mm over 5 day limit was not met.
	Conductivity	µS/cm		1		-	-	285	NA	NA	
	Oil & Grease	mg/L		1		-	-	<5	10	No	
	pH	pH		1		-	-	7.02	6.5-8.5	No	

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date of Max. Value Obtained	Min Value	Max or Only Value	100%ile Limit	Exceed -ance (Yes/ No)	Comment/s
											Reported to EPA. Above average rainfall was experienced with 192 mm received from the 20th of November to the 8th of December.
24	TSS	mg/L	Upon discharge	0	-	-	-	-	-	-	-
	Conductivity	µS/cm		0	-	-	-	-	-	-	-
	Oil & Grease	mg/L		0	-	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-	-
26	TSS	mg/L	Upon discharge	1	17/12	-	-	21	50	No	Not due to rain but as a controlled release as water quality was within conditions.
	Conductivity	µS/cm		1		-	-	144	NA	NA	
	Oil & Grease	mg/L		1		-	-	<5	10	No	
	pH	pH		1		-	-	7.0	6.5-8.5	No	

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date of Max. Value Obtained	Min Value	Max or Only Value	100%ile Limit	Exceed -ance (Yes/ No)	Comment/s
27	TSS	mg/L	Upon discharge	0	-	-	-	-	-	-	-
	Conductivity	µS/cm		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 of Max. Value Obtained	Min Value	Mean Value	Median Value	Max or Only Value
9	Conductivity	µS/cm	6 monthly – (Mar- Sep)	0	-	-	-	-	-	-
	Lead	mg/L		0	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-
	Standing Water Level	metres		0	-	-	-	-	-	-
10	Conductivity	µS/cm	6 monthly – (Mar- Sep)	0	-	-	-	-	-	-
	Lead	mg/L		0	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-
	Standing Water Level	metres		0	-	-	-	-	-	-
12	Conductivity	µS/cm	6 monthly – (Mar- Sep)	0	-	-	-	-	-	-
	Lead	mg/L		0	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-
	Standing Water Level	metres		0	-	-	-	-	-	-
13	Conductivity	µS/cm	Quarterly - (Feb, May, Aug, Nov)	0	-	-	-	-	-	-
	Oil & Grease	mg/L		0	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-
	TSS	mg/L		0	-	-	-	-	-	-

Table 4 – Quarterly Attended Noise Monitoring

(Noise Limits Apply - 35dB LAeq(15min) - Day, Evening and Night; 45dB LA1(1min) - Night)

(Extracts from consultants' report for the quarter #4 2021)

Date	Time	Total Noise Levels (dB)							Mine noise level L_{Aeq} (dB)	Wind Speed (m/s)	Wind Direction (º)	Stability Category	Rain (mm)
		L_{Aeq}	L_{Amax}	L_{Amin}	L_{Ceq}	L_{A1}	L_{A10}	L_{A90}					
TN3 Barbers Lagoon													
13/12/2021	10:57	45	69	25	51	57	43	28	I/A (<30)	1.4	302	A	0
	11:13	38	70	26	53	48	38	28	I/A (<30)	1.9	255	A	0
	11:35	45	69	26	55	60	40	27	I/A (<30)	1	233	A	0
	11:50	51	81	26	57	63	47	30	I/A (<30)	1.6	30	A	0
	12:14	48	73	26	50	61	46	28	I/A (<30)	3	284	A	0
	12:32	59	87	26	60	70	43	28	I/A (<30)	**3.5**	239	B	0
	21:39	43	52	40	49	46	44	42	I/A (<30)	2	84	E	0
	21:55	42	48	40	46	46	44	41	I/A (<30)	2.7	86	E	0
	22:11	46	70	39	50	52	43	40	I/A (<30)	2.6	99	E	0
	22:27	40	47	38	47	44	41	39	I/A (<30)	2.1	83	E	0
	22:43	41	49	39	47	44	43	40	I/A (<30)	1.1	16	**F**	0
	23:00	41	48	39	48	46	42	40	I/A (<30)	1.6	75	E	0
14/12/2021	9:03	48	73	33	57	60	45	35	34	0.9	171	A	0
	9:18	50	77	30	57	60	48	33	31	2.1	231	A	0
	9:34	53	78	28	60	64	50	33	33	2.2	195	B	0
	9:50	47	72	27	52	60	45	30	< 30	1.6	236	D	0
	10:07	50	74	27	57	63	46	30	I/A (<30)	1.6	150	C	0
	10:26	46	69	26	54	58	45	29	I/A (<30)	2.3	218	A	0
	21:24	43	67	39	49	51	43	40	I/A (<30)	1.2	93	D	0
	21:40	47	72	38	51	55	42	39	I/A (<30)	1.5	115	D	0

Date	Time	Total Noise Levels (dB)							Mine noise level L_{Aeq} (dB)	Wind Speed (m/s)	Wind Direction (º)	Stability Category	Rain (mm)
		L_{Aeq}	L_{Amax}	L_{Amin}	L_{Ceq}	L_{A1}	L_{A10}	L_{A90}					
	22:00	46	72	38	50	54	42	40	I/A (<30)	1.9	78	D	0
	22:16	40	53	38	47	44	41	39	I/A (<30)	1.5	46	E	0
	22:31	47	72	38	53	55	42	39	I/A (<30)	2.1	64	E	0
	22:47	39	47	37	44	42	40	38	I/A (<30)	0.7	151	**F**	0
15/12/2021	7:56	58	76	32	61	71	61	37	<35	1.2	300	A	0
	8:13	55	78	31	62	69	56	36	<35	1.4	191	A	0
	8:28	59	87	31	60	70	55	34	30	1.9	173	A	0
	8:45	54	73	32	61	68	54	36	<35	1.9	242	C	0
	9:04	45	71	30	56	56	45	33	30	2.1	268	C	0
	9:20	58	81	30	67	72	51	33	<35	1.9	240	D	0
	21:07	45	51	43	51	46	45	44	I/A (<35)	1.6	20	E	0
	21:24	45	49	41	53	47	46	43	I/A (<35)	1.1	24	E	0
	22:00	42	52	41	45	44	43	41	I/A (<30)	1.5	18	E	0
	22:19	45	73	39	50	55	43	40	I/A (<30)	2.6	1	D	0
	22:40	43	58	40	47	49	43	41	I/A (<30)	1.3	36	D	0
	22:58	42	45	40	45	43	42	41	I/A (<30)	1.5	62	E	0
16/12/2021	8:22	47	59	49	33	69	29	53	I/A (<30)	1.6	295	B	0
	8:42	52	65	50	32	76	30	56	I/A (<30)	1.6	309	D	0
	9:03	49	61	49	32	73	27	53	I/A (<30)	1.8	227	D	0
	9:21	54	68	54	31	75	27	60	I/A (<35)	2.1	211	D	0
	9:37	52	66	50	30	72	26	55	I/A (<30)	2.2	243	C	0
	9:55	50	65	47	31	73	28	57	I/A (<30)	2.5	239	D	0
	20:44	45	56	44	39	68	38	51	I/A (<30)	1.7	29	E	0
	21:02	41	44	41	40	53	39	46	I/A (<30)	1.7	45	D	0
	22:00	40	42	41	40	46	39	45	I/A (<30)	1.3	10	E	0
	22:20	45	59	41	40	70	39	53	I/A (<30)	2.3	31	D	0
	22:39	40	42	41	39	44	38	45	I/A (<30)	2.3	0	E	0
	22:54	41	46	41	39	53	38	47	I/A (<30)	1.3	3	D	0
TN4 Bungalow													

Date	Time	Total Noise Levels (dB)							Mine noise level L_{Aeq} (dB)	Wind Speed (m/s)	Wind Direction (º)	Stability Category	Rain (mm)
		L_{Aeq}	L_{Amax}	L_{Amin}	L_{Ceq}	L_{A1}	L_{A10}	L_{A90}					
13/12/2021	13:37	43	67	30	57	54	38	31	I/A (<30)	**3.3**	210	A	0
	13:54	55	76	30	65	72	47	32	I/A (<30)	3	186	B	0
	14:13	43	66	31	64	55	44	33	I/A (<35)	2.5	164	B	0
	14:28	43	64	31	63	55	42	32	I/A (<35)	1.6	186	A	0
	14:44	41	68	30	63	47	42	33	I/A (<30)	**3.4**	159	C	0
	14:59	38	60	31	61	44	41	33	I/A (<30)	2.1	186	A	0
	20:08	48	57	41	58	54	53	43	I/A (<30)	2.5	107	E	0
	20:23	52	58	43	56	55	55	45	I/A (<30)	1.5	66	E	0
	23:17	48	53	44	48	52	50	45	I/A (<30)	1.9	79	E	0
	23:32	48	55	44	48	52	50	45	I/A (<30)	1.4	71	E	0
	23:47	49	57	43	48	52	51	45	I/A (<30)	0.8	7	D	0
14/12/2021	0:02	50	54	44	49	53	52	46	I/A (<30)	0.9	22	E	0
	11:06	41	58	31	52	47	44	34	I/A (<30)	2.4	190	C	0
	11:23	39	52	31	51	44	42	35	I/A (<30)	2.8	193	C	0
	11:39	38	60	31	53	46	41	33	I/A (<30)	2.1	166	B	0
	12:09	40	60	30	57	53	41	32	I/A (<30)	**3.4**	231	D	0
	12:25	45	79	30	59	55	42	33	I/A (<30)	2.4	174	A	0
	20:29	47	55	44	54	49	48	45	I/A (<30)	1.9	41	E	0
	20:44	48	53	45	47	51	50	46	I/A (<30)	1.6	84	D	0
	23:19	46	52	43	48	47	46	45	I/A (<30)	2	88	D	0
	23:30	45	49	43	51	47	46	44	I/A (<30)	1.9	92	E	0
	23:45	45	48	43	48	47	46	44	I/A (<30)	1.9	93	D	0
	0:02	50	54	44	49	53	52	46	I/A (<30)	0.9	22	E	0
15/12/2021	0:00	45	59	42	49	47	46	44	I/A (<30)	**3.7**	103	E	0
	10:06	42	64	33	49	49	43	37	I/A (<30)	1.6	337	C	0
	10:24	41	49	32	50	44	43	36	I/A (<30)	1.1	299	A	0
	10:42	40	54	31	47	45	43	34	I/A (<30)	1.9	252	C	0
	11:01	37	47	30	48	42	40	32	I/A (<30)	2.2	266	B	0
	11:27	36	52	29	49	42	38	31	I/A (<30)	1.9	240	A	0

Date	Time	Total Noise Levels (dB)							Mine noise level L_{Aeq} (dB)	Wind Speed (m/s)	Wind Direction (º)	Stability Category	Rain (mm)
		L_{Aeq}	L_{Amax}	L_{Amin}	L_{Ceq}	L_{A1}	L_{A10}	L_{A90}					
	11:43	35	59	29	50	43	36	31	I/A (<30)	1.9	260	B	0
	20:16	47	53	41	48	50	50	43	I/A (<30)	1.8	20	E	0
	20:30	47	51	42	46	50	49	44	I/A (<30)	1.6	24	E	0
	23:17	48	52	43	49	51	50	45	I/A (<30)	1.9	33	**F**	0
	23:32	48	65	43	48	50	50	44	I/A (<30)	2.4	44	E	0
	23:47	47	52	42	48	50	50	44	I/A (<30)	2.4	50	E	0
	0:00	45	59	42	49	47	46	44	I/A (<30)	**3.7**	103	E	0
16/12/2021	0:02	47	60	42	48	50	50	44	I/A (<30)	1.6	36	E	0
	10:31	57	80	31	65	72	47	32	I/A (<30)	2.2	217	C	0
	10:48	38	62	29	50	51	39	31	I/A (<30)	2.2	120	A	0
	11:03	38	68	29	52	47	37	31	I/A (<30)	2	233	C	0
	11:19	37	69	29	49	45	36	31	I/A (<30)	1.7	182	A	0
	11:34	39	60	29	47	50	36	31	I/A (<30)	1.9	164	D	0
	11:51	42	69	30	47	53	43	32	I/A (<30)	1.6	153	C	0
	20:18	44	53	42	48	47	45	42	I/A (<30)	0.7	357	E	0
	20:33	46	53	43	48	49	47	44	I/A (<30)	1.5	19	E	0
	23:20	44	56	40	46	46	45	43	I/A (<30)	0.9	350	D	0
	23:35	44	48	39	47	46	45	42	I/A (<30)	1	35	D	0
	23:50	44	48	39	47	47	46	42	I/A (<30)	0.7	0	**F**	0
	0:02	47	60	42	48	50	50	44	I/A (<30)	1.6	36	E	0
	0:05	44	48	39	51	47	46	42	I/A (<30)	1.2	39	D	0
TN2 Coomalgah													
13/12/2021	11:56	35	54	30	53	43	36	31	<30	1.1	283	A	0
	12:11	33	49	28	57	40	35	31	<30	3	284	A	0
	12:26	35	59	29	55	40	37	30	<30	**3.7**	238	A	0
	12:41	33	51	28	53	41	34	29	<30	2.8	201	A	0
	12:56	38	62	28	53	50	38	30	<30	1.8	158	A	0
	13:11	33	58	29	49	38	35	31	<30	2.9	256	C	0
	21:30	53	61	43	53	56	55	50	I/A (<30)	2.1	76	D	0

Date	Time	Total Noise Levels (dB)							Mine noise level L_{Aeq} (dB)	Wind Speed (m/s)	Wind Direction (º)	Stability Category	Rain (mm)
		L_{Aeq}	L_{Amax}	L_{Amin}	L_{Ceq}	L_{A1}	L_{A10}	L_{A90}					
	21:45	54	59	43	55	58	57	50	I/A (<30)	2	103	D	0
	22:00	50	56	42	54	54	52	46	I/A (<30)	2.7	86	E	0
	22:15	49	55	40	52	54	51	44	I/A (<30)	2.6	99	E	0
	22:30	49	59	40	51	53	51	44	I/A (<30)	2.1	83	E	0
	22:45	48	55	38	51	53	51	42	I/A (<30)	1.1	16	**F**	0
14/12/2021	10:40	38	61	27	51	49	39	29	<30	1.9	159	A	0
	10:55	38	60	28	53	51	38	29	<30	0.9	241	A	0
	11:10	33	55	27	58	40	34	29	<30	**3.1**	211	D	0
	11:25	34	56	27	53	46	35	28	<30	2.4	240	A	0
	11:40	34	54	26	49	47	34	28	<30	**3.3**	241	C	0
	11:55	33	51	27	54	41	35	28	<30	2.6	216	C	0
	21:30	46	56	37	51	52	49	40	I/A (<30)	1.2	49	D	0
	21:45	41	49	37	53	46	44	38	I/A (<30)	1.5	115	D	0
	22:00	42	53	35	48	49	45	38	I/A (<30)	2	105	E	0
	22:15	42	51	35	42	48	45	38	I/A (<30)	1.1	29	D	0
	22:30	41	50	34	42	47	44	37	I/A (<30)	1.7	51	E	0
	22:45	41	48	33	44	46	44	37	I/A (<30)	1.3	79	E	0
15/12/2021	11:16	33	59	27	49	40	34	28	<30	1.8	291	A	0
	11:30	32	51	27	50	41	34	28	<30	1.9	240	A	0
	11:45	31	52	26	49	41	32	28	<30	1.9	260	B	0
	12:00	32	55	27	51	39	33	29	<30	2.8	222	A	0
	12:15	31	44	26	49	38	33	28	<30	1.7	322	A	0
	12:30	32	41	26	43	37	34	28	<30	1.8	280	A	0
	21:30	44	60	38	47	49	46	41	I/A (<30)	1.5	28	**F**	0
	21:45	45	54	37	48	54	47	39	I/A (<30)	2.3	25	E	0
	22:00	46	59	37	48	51	49	39	I/A (<30)	1.3	20	E	0
	22:15	42	51	37	47	46	44	39	<30	1.8	10	E	0
	22:30	42	50	37	49	46	44	39	<30	1.1	6	D	0
	22:45	43	49	37	50	47	45	39	<32	1.3	36	D	0

Date	Time	Total Noise Levels (dB)							Mine noise level L_{Aeq} (dB)	Wind Speed (m/s)	Wind Direction (º)	Stability Category	Rain (mm)
		L_{Aeq}	L_{Amax}	L_{Amin}	L_{Ceq}	L_{A1}	L_{A10}	L_{A90}					
16/12/2021	9:44	34	52	28	52	43	36	30	<30	2.4	220	D	0
	9:59	36	56	27	52	47	38	30	<30	2.5	239	D	0
	10:14	45	70	27	50	58	44	30	<30	1.9	225	D	0
	10:29	35	57	28	49	45	36	30	<30	1.9	264	D	0
	10:44	33	50	27	48	42	35	29	<30	2.4	210	C	0
	10:59	42	69	26	48	49	35	28	<30	2.1	184	B	0
	21:30	43	50	37	52	48	45	40	<30	1.1	34	D	0
	21:45	42	48	37	52	46	44	39	<33	1	24	D	0
	22:00	43	50	37	51	48	46	40	<33	0.9	13	D	0
	22:15	43	51	37	49	48	46	39	<33	1.6	13	E	0
	22:30	43	50	36	50	48	46	39	<33	2.3	26	D	0
	22:45	43	50	37	51	48	47	39	<33	1.4	4	D	0

Notes:

- Acronyms used: I/A = Inaudible, m/s = metres/second, dB = decibel.
- Light-blue coloured cells = Non-compliant weather conditions not included in calculation of average for that period. Non-compliant weather conditions are any:
  a) Wind speeds greater than 3m/s at 10m above ground level
  b) Stability Category F temperature inversion conditions and wind speeds greater than 2m/s, 10m above the ground
  c) Stability category G temperature inversions.
- Real time weather conditions retrieved from the mine, after monitoring occurs.

Table 5 – Monthly 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 of Max. Value Obtained
Coomalgah (TB2)	**Blast Noise**	**dB (Lin Peak)**	**Every Blast**	3	87.60	90.60	**120**	**Nil**	1/01/2021
	Blast Vibration	**mm/s**	**Every Blast**	3	0.22	0.31	**10**	**Nil**	1/01/2021

Table 6- Monthly Monitoring (Dust PM10 – No Limits apply)

Location	No. of samples required by licence	Lowest sample value	Mean of sample	Highest sample value
"Flixton" property* TEOM ($\mu g/m^3$)	Continuous	0	NA[#]	38.3

*****_Mine owned property – no limit apply_

[#]NA as TEOM real time feed was unavailable for a time. Average for each 24hr period were provided by telemetry consultant.

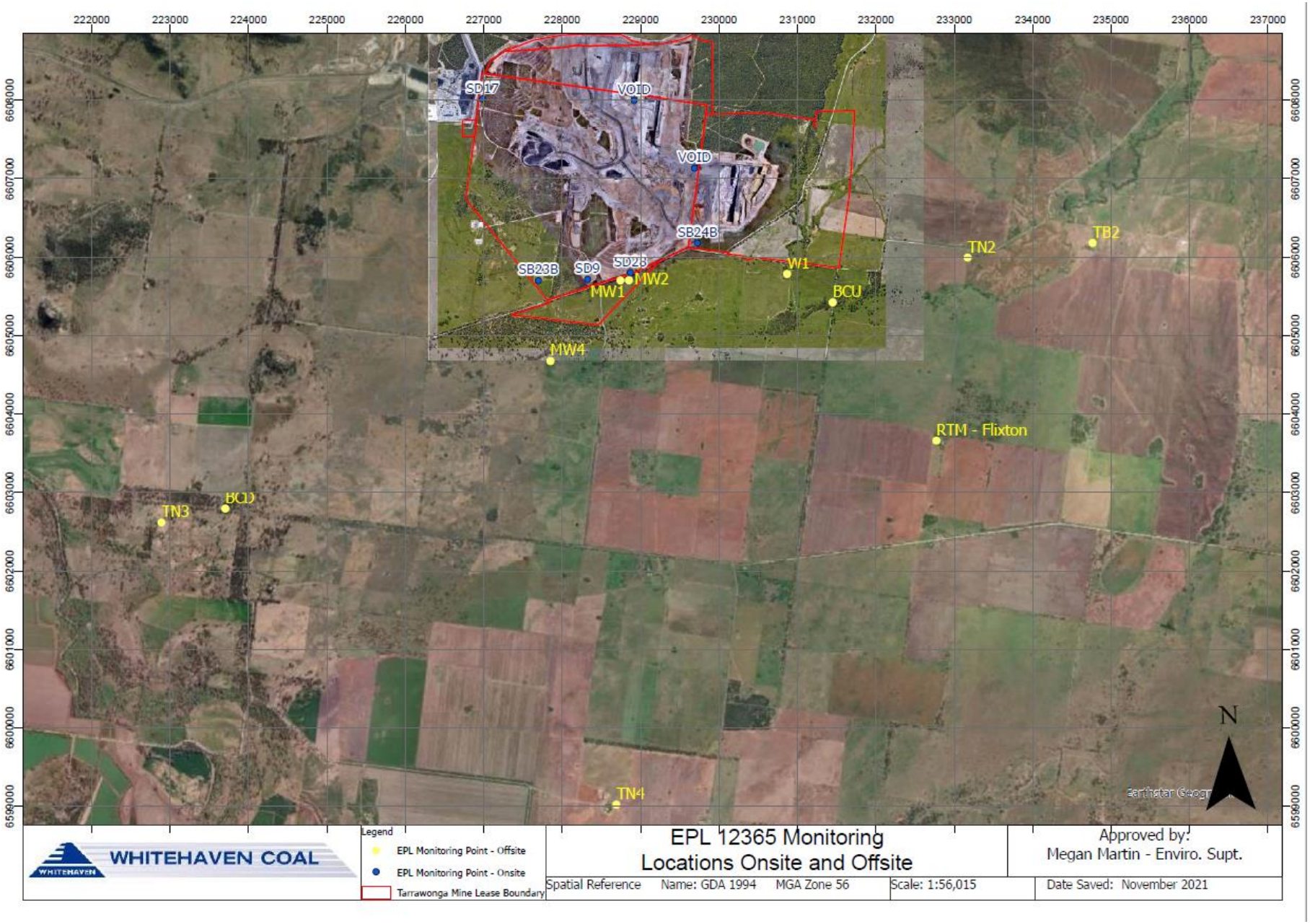



Figure 1 – EPL 12365 Monitoring Locations