AuS-10 Rhyolite - Licence number 12323

Licence Discharge Point 1

The concentration limits stipulated by condition L2.1/L2.4 for EPA Identification Points 1,8, 9, 10 and 11 are deemed not to apply when the discharge from the stormwater control structures (sediment basins) occurs solely as a result of rainfall measured at the premises which exceeds:
a) a total of 44 millimetres of rainfall over any consecutive 5 day period.

Dam 1 - SB1 - EPL Point 1

Guidance range		Range - 6.5 - 8.5	<1500us/cm			Limit <30 mg/l	20	Limit - 10 mg/l		
Month	**Number of Samples**	**pH**	**Electrical Conductivity**	**Turbidity**	**Total Dissolved Solids**	**Total Suspend Solids**	**Oxygen demand**	**Oil/Grease**	**Volume Discharged - KL - Estimated**	**Comment**
27.07.2020	1	7		874		457		<5	**Nil Discharge**	Sample only
10.08.2020	1	7.8		700		391		<5	1500	
11.08.2020	1	6.9		610	268	308		<5	1500	55mm of rain 8th to 12 August
Sep-2020	0								**Nil Discharge**	
Oct-2020	0								**Nil Discharge**	
Nov-2020	0								**Nil Discharge**	
Dec-2020	0								**Nil Discharge**	
Jan-2021	0								**Nil Discharge**	
Feb-2021	0								**Nil Discharge**	
21.03.2021	1	7.1		350		222		<5	500	469.2mm - 17th to 26th - Mt Boyce
22.03.2021	1	7.3		390		229		<5	1000	469.2mm - 17th to 26th - Mt Boyce
23.03.2021	1	7.7		650		302		<5	1000	469.2mm - 17th to 26th - Mt Boyce
24.03.2021	1	7.1		860		520		<5	2000	469.2mm - 17th to 26th - Mt Boyce
25.03.2021	1	6.9		288		151		<5	2000	469.2mm - 17th to 26th - Mt Boyce
26.03.2021	1	7.5		206		92		<5	2000	469.2mm - 17th to 26th - Mt Boyce
Apr-2021	0								**Nil Discharge**	
May-2021	0								**Nil Discharge**	
Jun-2021	0								**Nil Discharge**	
Total		**65.3**	**0**	**4928**	**268**	**2672**	**0**	**0**	8	
	Mean	**7.26**	**#DIV/0!**	**547.56**	**268.00**	**296.89**	**#DIV/0!**	**#DIV/0!**	**1437.50**	
	Lowest	**6.90**	**0.00**	**206.00**	**268.00**	**92.00**	**0.00**	**0.00**	**500.00**	
	Highest	**7.80**	**0.00**	**874.00**	**268.00**	**520.00**	**0.00**	**0.00**	**2000.00**	

EPL POINT 2 **Range - 6.5 - 8.5**

Upstream Location AQW-1

Month	**Number of Samples**	**pH**	**Electrical Conductivity**	**Turbidity**	**Total Dissolved Solids**	**Total Suspend Solids**	**Oxygen demand**	**Oil/Grease**	**Volume Discharged - KL - Estimated**	**Comment**
02.07.2020	1	7.8	353	2.5	242	<5	<2	<5	0	**Monthly Sample**
27.07.2020	1	7.6		46		75		<5		Discharge from EPL **9**
28.07.2020	1	7.9		36		61		<5		Discharge from EPL **9**
03.08.2020	1	8.1	440	9.9	232	<5	2	<5		**Monthly sample**
10.08.2020	1	7.9		45		48		<5		Discharge from EPL 1
11.08.2020	1	8.3		29	276	<5		<5		Discharge from EPL 1
03.09.2020	1	8.6	410	3.5	288	<5	2	<5		**Monthly sample**
01.10.2020	1	8.0	430	3.7	270	<5	4	<5		**Monthly sample**
02.11.2020	1	8.1	468	2.5	248	6	2	<5		**Monthly sample**
01.12.2020	1	7.3	460	2.1	260	<5	<2	8		**Monthly Sample**
30.12.2020	1	6.2	198	110	128	76	2	<5		**Monthly Sample**
01.02.2021	1	7.9	449	3.1	270	6	<2	<5		**Monthly Sample**
02.03.2021	1	8.1	399	3.0	225	<5	9	<5		**Monthly Sample**
21.03.2021	1	7.2		60.0		55		<5		Discharge from EPL 1
22.03.2021	1	7.6		60.0		66		<5		Discharge from EPL 1
23.03.2021	1	7.7		60.0		83		<5		Discharge from EPL 1
24.03.2021	1	7.3		28.0		32		<5		Discharge from EPL 1
25.03.2021	1	7.4		15.9		12		<5		Discharge from EPL 1
26.03.2021	1	7.9		17.0		7		<5		Discharge from EPL 1
31.03.2021	1	7.5	265	14.0	203	<5	<2	<5		**Monthly sample**
28.04.2021	1	7.6	322	2.5	233	<5	<2	<5		**Monthly sample**
26.05.2021	1	7.8	308	2.5	161	<5	<2	<5		**Monthly sample**
24.06.2021	1	7.7	346	2.1	167	<5	<2	<5		**Monthly sample**
Total	**23**	**177.5**	**4848**	**558.3**	**3203**	**527**	**21**	**8**		
		14.79	**404.00**	**46.53**	**266.92**	**43.92**	**1.75**	**0.67**		
Mean		**7.72**	**372.92**	**24.27**	**228.79**	**43.92**	**3.50**	**8.00**		
Lowest		**6.20**	**198.00**	**2.10**	**128.00**	**6.00**	**2.00**	**8.00**		
Highest		**8.60**	**468.00**	**110.00**	**288.00**	**83.00**	**9.00**	**8.00**		

EPL Point 3

COXS RIVER LOWER CROSSING 6/7/2011 - AQW3

Month	**Number of Samples**	**pH**	**Electrical Conductivity**	**Turbidity**	**Total Dissolved Solids**	**Total Suspend Solids**	**Oxygen demand**	**Oil/Grease**	**Volume Discharged - KL - Estimated**	**Comment**
02.07.2020	1	8	352	2.4	240	<5	<2	<5	0	**Monthly sample**
27.07.2020	1	7.4		135		135		<5		Discharge from EPL **9**
28.07.2020	1	7.4		40		47		<5		Discharge from EPL **9**
03.08.2020	1	8.2	427	6.1	256	<5	2	<5		**Monthly sample**
10.08.2020	1	7.9		40		46		<5		Discharge from EPL 1
11.08.2020	1	8.2		9.5	299	<5		<5		Discharge from EPL 1
03.09.2020	1	8.1	385	3.6	252	5	<2	<5		**Monthly sample**
01.10.2020	1	8.1	431	2.8	250	<5	3	<5		**Monthly sample**
02.11.2020	1	8	427	1.9	252	<5	<2	<5		**Monthly sample**
04.11.202	1	7.7		2.6		<5		<5		**Discharge from EPL 9**
01.12.2020	1	7.8	413	1.9	230	<5	2	<5		**Monthly sample**
30.12.2020	1	6.9	174	120	122	112	2	<5		**Monthly sample**
01.02.2021	1	8.1	452	1.8	260	6	<2	<5		**Monthly sample**
02.03.2021	1	8.0	394	2.6	221	<5	<2	<5		**Monthly sample**
09.03.2021	1	8.5		3.0		<5		<5		Discharge from EPL9
21.03.2021	1	7.1		60.0		53		<5		Discharge from EPL's 1 & 8
22.03.2021 - AWQ2	1	7.6		60.0		54		<5		Discharge from EPL's 1, 8 & 9 - AWQ2 - downstream sampled due to no access to EPL 3 site
23.03.2021 - AWQ2	1	6.9		65.0		75		<5		Discharge from EPL's 1, 8 & 9
24.03.2021 - AQW2	1	6.4		30.0		33		<5		Discharge from EPL's 1, 8 & 9
25.03.2021 - AQW2	1	8.0		15.3		7		<5		Discharge from EPL's 1 & 8
26.03.2021	1	7.9		12.0		7		<5		Discharge from EPL's 1 & 8
31.03.2021	1	7.8	235	8.1	189	<5	<2	<5		**Monthly sample**
28.04.2021	1	7.8	310	2.3	177	<5	<2	<5		**Monthly sample**
26.05.2021	1	7.7	309	1.8	209	<5	<2	<5		**Monthly sample**
24.06.2021	1	7.9	288	2.6	279	<5	<2	<5		**Monthly sample**
Total	**25**	**146.3**	**3818**	**397.3**	**2441**	**352**	**7**	**0**		
		12.19	**318.17**	**33.11**	**203.42**	**29.33**	**0.58**	**0.00**		
Mean		**7.74**	**353.62**	**25.21**	**231.14**		**2.25**	**#DIV/0!**		
Lowest		**6.40**	**174.00**	**1.80**	**122.00**	**5.00**	**2.00**	**0.00**		
Highest		**8.50**	**452.00**	**135.00**	**299.00**	**135.00**	**3.00**	**0.00**		

Dust Monitoring EPL Point 4

Month	**Number of Samples**	**Sawmill**	**Insoluble Solids**	**Combustible Matter**	**Ash**	
Jul-2020	continuous	Sawmill	0.4	0.2	0.2	Broken Funnel - Frosts being experienced
Aug-2020	continuous	Sawmill	1.2	0.7	0.5	
Sep-2020	continuous	Sawmill	0.4	0.2	0.2	
Oct-2020	continuous	Sawmill	0.5	0.2	0.3	
Nov-2020	continuous	Sawmill	2.7	1.9	0.8	
Dec-2020	continuous	Sawmill	0.4	0.2	0.2	
Jan-2021	continuous	Sawmill	0.8	0.5	0.3	
Feb-2021	continuous	Sawmill	0.7	0.4	0.3	
Mar-2021	continuous	Sawmill	0.9	0.3	0.6	
Apr-2021	continuous	Sawmill	0.3	0.2	0.1	
May-2021	continuous	Sawmill	0.3	0.1	0.2	
Jun-2021	continuous	Sawmill	0.1	0.1	<0.1	
			8.7	**5**	**3.7**	
		Mean	**0.73**	**0.42**	**0.34**	
		Lowest	**0.1**	**0.1**	**0.1**	
		Highest	**2.7**	**1.9**	**0.8**	

Dust Monitoring EPL Point 5

Month	**Number of Samples**	**Baners Lane**	**Insoluble Solids**	**Combustible Matter**	**Ash**
Jul-2020	continuous	Baners Lane	0.3	0.2	0.1

Aug-2020	continuous	Baners Lane	0.9	0.7	0.2
Sep-2020	continuous	Baners Lane	0.2	0.1	0.1
Oct-2020	continuous	Baners Lane	0.2	0.1	0.1
Nov-2020	continuous	Baners Lane	0.1	<0.1	0.1
Dec-2020	continuous	Baners Lane	0.5	0.3	0.2
Jan-2021	continuous	Baners Lane	0.5	0.4	0.1
Feb-2021	continuous	Baners Lane	0.5	0.4	0.1
Mar-2021	continuous	Baners Lane	0.3	0.2	0.1
Apr-2021	continuous	Baners Lane	0.2	0.2	<0.1
May-2021	continuous	Baners Lane	0.2	0.2	<0.1
Jun-2021	continuous	Baners Lane	0.3	0.2	0.1
			4.2	**3**	**1.2**
		Mean	**0.35**	**0.27**	**0.12**
		Lowest	**0.1**	**0.1**	**0.1**
		Highest	**0.9**	**0.7**	**0.2**

Dust Monitoring EPL Point 6

Month	Number of Samples	Bald Hill	Insoluble Solids	Combustible Matter	Ash
Jul-2020	continuous	Bald Hill	2.9	0.5	2.4
Aug-2020	continuous	Bald Hill	1.0	0.8	0.2
Sep-2020	continuous	Bald Hill	0.6	0.3	0.3
Oct-2020	continuous	Bald Hill	0.3	0.2	0.1
Nov-2020	continuous	Bald Hill	0.7	0.3	0.4
Dec-2020	continuous	Bald Hill	0.8	0.4	0.4
Jan-2021	continuous	Bald Hill	1.5	0.7	0.8
Feb-2021	continuous	Bald Hill	2.0	1.1	0.9
Mar-2021	continuous	Bald Hill	1.0	0.7	0.3
Apr-2021	continuous	Bald Hill	0.8	0.3	0.5
May-2021	continuous	Bald Hill	0.1	0.1	<0.1
Jun-2021	continuous	Bald Hill	0.4	0.2	0.2
			12.1	**5.6**	**6.5**
		Mean	**1.01**	**0.47**	**0.59**
		Lowest	**0.1**	**0.1**	**0.1**
		Highest	**2.9**	**1.1**	**2.4**

ND - Not Detected

EPL POINT 8

Dam 2 - SB2b **Range - 6.5 - 8.5**

Month	Number of Samples	pH	Electrical Conductivity	Turbidity	Total Dissolved Solids	Total Suspend Solids	Oxygen demand	Oil/Grease	Volume Discharged - KL - Estimated	Comment
28.07.2020	1	7.7		36		61		<5	1000	90+mm of rain
Aug-2020	0									**Nil Discharge**
Sep-2020	0									**Nil Discharge**
Oct-2020	0									**Nil Discharge**
Nov-2020	0									**Nil Discharge**
Dec-2020	0									**Nil Discharge**
Jan-2021	0									**Nil Discharge**
Feb-2021	0									**Nil Discharge**
21.03.2021	1	7.1		650		257		<5	500	469.2mm - 17th to 26th - Mt Boyce
22.03.2021	1	7.5		750		324		<5	1000	469.2mm - 17th to 26th - Mt Boyce
23.03.2021	1	7.6		750		328		<5	1000	469.2mm - 17th to 26th - Mt Boyce
24.03.2021	1	7.5		465		76		<5	1000	469.2mm - 17th to 26th - Mt Boyce
25.03.2021	1	7.5		154		39		<5	1000	469.2mm - 17th to 26th - Mt Boyce
26.03.2021	1	7.6		196		154		<5	1000	469.2mm - 17th to 26th - Mt Boyce
Apr-2021	0									**Nil Discharge**
May-2021	0									**Nil Discharge**
Jun-2021	0									**Nil Discharge**
	52.5	**0**	**3001**	**0**	**1239**	**0**	**0**			
Mean	**7.50**	**0.00**	**428.71**	**0.00**	**177.00**	**0.00**	**0.00**	**928.57**		
Lowest	**7.10**	**0.00**	**36.00**	**0.00**	**39.00**	**0.00**	**0.00**	**500.00**		
Highest	**7.70**	**0.00**	**750.00**	**0.00**	**328.00**	**0.00**	**0.00**	**1000.00**		

7

EPL POINT 9

South of O/Burden dump

Dam 3 - SB3a **Range - 6.5 - 8.5**

Month	Number of Samples	pH	Electrical Conductivity	Turbidity	Total Dissolved Solids	Total Suspend Solids	Oxygen demand	Oil/Grease	Volume Discharged - KL - Estimated	Comment
27.07.2020	1	7.2		184		83		<5	1000	90+mm of rain
28.07.2020	1	7		190		100		<5	1000	90+mm of rain
Aug-2020	0									**Nil Discharge**
Sep-2020	0									**Nil Discharge**
Oct-2020	0									**Nil Discharge**
02.11.2020	1	7.7		9.8		<5		<5		Sample Only - NO Discharge
04.11.2020	1	8		9.9		<5		<5	1000	Discharge
Jan-2021	0									**Nil Discharge**
Feb-2021	0									**Nil Discharge**
02.03.2021	1	7.8		24		23		<5		**Nil Discharge - sample only**
09.03.2021	1	8.3		14		12		<5	1000	**Discharge**
22.03.2021	1	7.3		140		64		<5	1000	469.2mm - 17th to 26th - Mt Boyce
23.03.2021	1	6.8		110		27		<5	1000	469.2mm - 17th to 26th - Mt Boyce
24.03.2021	1	7.2		58		8		<5	1000	469.2mm - 17th to 26th - Mt Boyce
Apr-2021	0									**Nil Discharge**
May-2021	0									**Nil Discharge**
Jun-2021	0									**Nil Discharge**
	67.3	**0**	**739.7**	**0**	**317**	**0**	**0**			
Mean	**7.48**	**#DIV/0!**	**82.19**	**#DIV/0!**	**45.29**	**#DIV/0!**	**#DIV/0!**	**1000.00**		
Lowest	**6.80**	**0.00**	**9.80**	**0.00**	**8.00**	**0.00**	**0.00**	**1000.00**		
Highest	**8.30**	**0.00**	**190.00**	**0.00**	**100.00**	**0.00**	**0.00**	**1000.00**		

EPL POINT 10

Storage Dam 4

Dam 4 - SD2 **Range - 6.5 - 8.5**

Month	Number of Samples	pH	Electrical Conductivity	Turbidity	Total Dissolved Solids	Total Suspend Solids	Oxygen demand	Oil/Grease	Volume Discharged - KL - Estimated	Comment
Jul-2020	**0**									**Nil Discharge**
10.08.2020	**1**	8.2		**5.5**		<5		<5	1000	**Discharge**
11.08.2020	1	7.7		7.7	302	11		<5	1000	**Discharge**
Sep-2020	0									**Nil Discharge**
Oct-2020	0									**Nil Discharge**
Nov-2020	0									**Nil Discharge**
Dec-2020	0									**Nil Discharge**
Jan-2021	0									**Nil Discharge**
Feb-2021	0									**Nil Discharge**
Mar-2021	0									**Nil Discharge**
Apr-2021	0									**Nil Discharge**
May-2021	0									**Nil Discharge**
Jun-2021	0									**Nil Discharge**
	7.7	**0**	**7.7**	**302**	**11**	**0**	**0**			
Mean	**7.95**	**#DIV/0!**	**6.60**	**302.00**	**11.00**	**#DIV/0!**	**#DIV/0!**	**1000.00**		
Lowest	**7.70**	**0.00**	**5.50**	**302.00**	**11.00**	**0.00**	**0.00**	**1000.00**		
Highest	**8.20**	**0.00**	**7.70**	**302.00**	**11.00**	**0.00**	**0.00**	**1000.00**		

EPL POINT 11

Dam 5 - SD6 - AQW-8 **Range - 6.5 - 8.5**

Month	Number of Samples	pH	Electrical Conductivity	Turbidity	Total Dissolved Solids	Total Suspend Solids	Oxygen demand	Oil/Grease	Volume Discharged - KL - Estimated	Comment
Jul-2020	0									**Nil Discharge**
Aug-2020	0									**Nil Discharge**
Sep-2020	0									**Nil Discharge**
Oct-2020	0									**Nil Discharge**
Nov-2020	0									**Nil Discharge**
Dec-2020	0									**Nil Discharge**
Jan-2021	0									**Nil Discharge**
Feb-2021	0									**Nil Discharge**
Mar-2021	0									**Nil Discharge**
Apr-2021	0									**Nil Discharge**
May-2021	0									**Nil Discharge**
Jun-2021	0									**Nil Discharge**

		0	0	0	0	0	0	0	
	Mean	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Lowest	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Highest	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

Weather station results available upon request

AuS-10 Rhyolite - Licence number 12323

Blasting	Frequency	Date	Blast Number	Limits	Units of measure	Results - Hartley Village	2nd Monitor 781 Jenolan Caves Rd	
Ground Vibration	Per Blast	19.02.2020	185	5 - trigger point >0.51	mm/s	Nil Trigger	Nil Trigger	
Overpressure	Per Blast	19.02.2020	185	115 - Trigger point <100	dB	Nil Trigger	Nil Trigger	
Ground Vibration	Per Blast	26.02.2020	186 A + B	5 - trigger point >0.51	mm/s	Nil Trigger	Nil Trigger	
Overpressure	Per Blast	26.02.2020	187 A + B	115 - Trigger point <100	dB	Nil Trigger	Nil Trigger	
Ground Vibration	Per Blast	18.03.2020	187	5 - trigger point >0.51	mm/s	Nil Trigger	Nil Trigger	
Overpressure	Per Blast	18.03.2020	187	115 - Trigger point <100	dB	Nil Trigger	Nil Trigger	
Ground Vibration	Per Blast	08.04.2020	188	5 - trigger point >0.51	mm/s	Nil Trigger	Nil Trigger	
Overpressure	Per Blast	08.04.2020	188	115 - Trigger point <100	dB	Nil Trigger	Nil Trigger	
Ground Vibration	Per Blast	20.05.2020	189	5 - trigger point >0.51	mm/s	Nil Trigger	Nil Trigger	
Overpressure	Per Blast	20.05.2020	189	115 - Trigger point <100	dB	Nil Trigger	Nil Trigger	
Ground Vibration	Per Blast	16.06.2020	190	5 - trigger point >0.51	mm/s	Nil Trigger	Nil Trigger	
Overpressure	Per Blast	16.06.2020	190	115 - Trigger point <100	dB	Nil Trigger	Nil Trigger	
Ground Vibration	Per Blast	03.08.2020	191 A & B	5 - trigger point >0.51	mm/s	Nil Trigger	Nil Trigger	
Overpressure	Per Blast	03.08.2020	191 A & B	115 - Trigger point <100	dB	Nil Trigger	Nil Trigger	
Ground Vibration	Per Blast	19.08.2020	192	5 - trigger point >0.51	mm/s	Nil Trigger	Nil Trigger	
Overpressure	Per Blast	19.08.2020	192	115 - Trigger point <100	dB	Nil Trigger	Nil Trigger	
Ground Vibration	Per Blast	23.09.2020	193	5 - trigger point >0.51	mm/s	Nil Trigger	Nil Trigger	
Overpressure	Per Blast	23.09.2020	193	115 - Trigger point <100	dB	Nil Trigger	Nil Trigger	
Ground Vibration	Per Blast	29.10.2020	194	5 - trigger point >0.51	mm/s	Nil Trigger	Nil Trigger	
Overpressure	Per Blast	29.10.2020	194	115 - Trigger point <100	dB	Nil Trigger	Nil Trigger	
Ground Vibration	Per Blast	18.11.2020	195	5 - trigger point >0.51	mm/s	Nil Trigger	Nil Trigger	
Overpressure	Per Blast	18.11.2020	195	115 - Trigger point <100	dB	Nil Trigger	Nil Trigger	
Ground Vibration	Per Blast	21.12.2020	196	5 - trigger point >0.51	mm/s	Nil Trigger	Nil Trigger	
Overpressure	Per Blast	21.12.2020	196	115 - Trigger point <100	dB	Nil Trigger	Nil Trigger	
Ground Vibration	Per Blast	03.02.2021	197	5 - trigger point >0.51	mm/s	Nil Trigger	0.062	
Overpressure	Per Blast	03.02.2021	197	115 - Trigger point <88	dB	Nil Trigger	Nil Trigger	
Ground Vibration	Per Blast	05.03.2021	198	5 - trigger point >0.51	mm/s	Nil Trigger	Nil Trigger	
Overpressure	Per Blast	05.03.2021	198	115 - Trigger point <88	dB	Nil Trigger	Nil Trigger	
Ground Vibration	Per Blast	31.03.2021	199 A & B	5 - trigger point >0.51	mm/s	Nil Trigger	Nil Trigger	
Overpressure	Per Blast	31.03.2021	199 A & B	115 - Trigger point <88	dB	Nil Trigger	Nil Trigger	
Ground Vibration	Per Blast	22.04.2021	200	5 - trigger point >0.51	mm/s	Nil Trigger	Nil Trigger	
Overpressure	Per Blast	22.04.2021	200	115 - Trigger point <88	dB	Nil Trigger	Nil Trigger	
Ground Vibration	Per Blast	18.05.2021	201	5 - trigger point >0.51	mm/s	Nil Trigger	Nil Trigger	
Overpressure	Per Blast	18.05.2021	201	115 - Trigger point <88	dB	Nil Trigger	Nil Trigger	
Ground Vibration	Per Blast	27.05.2021	202	5 - trigger point >0.51	mm/s	Nil Trigger	Nil Trigger	
Overpressure	Per Blast	27.05.2021	202	115 - Trigger point <88	dB	Nil Trigger	Nil Trigger	
Ground Vibration	Per Blast	16.06.2021	203	5 - trigger point >0.51	mm/s	Nil Trigger	Nil Trigger	
Overpressure	Per Blast	16.06.2021	203	115 - Trigger point <88	dB	Nil Trigger	Nil Trigger	
Ground Vibration	Per Blast	30.06.2021	204	5 - trigger point >0.51	mm/s	Nil Trigger	Nil Trigger	
Overpressure	Per Blast	30.06.2021	204	115 - Trigger point <88	dB	Nil Trigger	Nil Trigger	

Grant's Head Quarry - Licence Number 4040

	Pollutant	Aluminium	Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Zinc	
EPL Point 1 - sump	Units of Measure	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	Comment
Month	Number of Samples										
20.08.2020	1	0.316	<0.0002	0.0006	0.0006	0.342	0.0003	<0.00001	0.0308	0.074	
19.10.2020	1	0.07	<0.001	0.0008	<0.001	0.42	0.001	<0.0001	0.058	0.14	ERM Qtrly sample
25.11.2020	1	0.164	0.0002	0.0007	0.0003	0.39	0.0002	<0.00001	0.0332	0.075	
12.01.2021	1	0.48	<0.001	0.0005	<0.001	0.28	<0.001	<0.0001	0.026	0.057	ERM Qtrly sample
24.02.2021	1	2.08	0.0011	0.0004	0.0026	0.283	0.0004	<0.00001	0.0202	0.05	
08.04.2021	1	0.33	<0.001	0.0003	<0.001	0.17	<0.001	<0.0001	0.015	0.044	ERM Qtrly sample
05.05.2021	1	0.336	0.0002	0.0004	0.0005	0.201	0.0003	<0.00001	0.0221	0.06	
10.06.2021	1	0.13	<0.001	0.0004	0.002	0.25	0.001	<0.0001	0.028	0.081	ERM Qtrly sample

	Pollutant	Aluminium	Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Zinc
Wetland site (new Oct 2018	Units of Measure	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Date	No. of samples									
21.10.2020	1	0.25	<0.001	0.0002	<0.001	0.099	0.002	<0.0001	0.018	0.1
11.01.2021	1	1.2	0.002	<0.0002	0.002	0.003	<0.001	<0.0001	0.001	0.008
08.04.2021	1	0.56	<0.001	<0.0002	0.002	0.035	<0.001	<0.0001	0.002	0.022
10.06.2021	1	0.23	<0.001	<0.0002	<0.001	0.097	0.005	<0.0001	0.013	0.12

	Pollutant	pH	µS/cm
Wetland site	Units of Measure	mg/l	mg/l
21.10.2020		4.84	359
11.01.2021		5.37	255
08.04.2021		6.27	165
10.06.2021		6.19	1380

	Pollutant							
EPL Point 1 - sump	Units of Measure	pH (wet) Range 5.3 to 7.0	Electrical Conductivity	Turbidity	Total Suspended Solids Max 30 Milligrams per litre	Oil and Grease	Hours of pump operation	Requirement to Monitor Volume or Mass - KL
Month	Number of Samples	pH	µS/cm	NTU	mg/l	Visible	Hours	KL
09.07.2020	1	6.2	353	1.5	4	<5	24	6,825.6
14.07.2020	1	6	368	1.7	4	<5	24	6,825.6
28.07.2020	1	5.4	333	6.2	6	<5	24	6,825.6
20.08.2020	1	6.0	350	2.4	3	<5	24	6,825.6
07.10.2020	1	6.3	381	2.1	3	<5	24	6,825.6
08.10.2020	1	6.1	393	1.3	<3	<5	24	6,825.6
19.10.2020		4.84	408					Qtrly Sample
25.11.2020	1	5.8	407	1.6	<3	<5	24	6,825.6
09.12.2020	1	6.20	422	3.1	4	<5	24	6,825.6
16.12.2020	1	6.1	275	57	37	<5	0	Sample only
17.12.2020	1	6.2	252	42	28	<5	24	6,825.6
22.12.2020	1	5.50	260	6.8	<3	<5	24	6,825.6
05.01.2021	1	6.80	250	9.3	10	<5	24	6,825.6
07.01.2021	1	6.0	202	21.0	18	<5	24	6,825.6
12.01.2021	1	6.9	262.7					Qtrly Sample
12.01.2021	1	6.6	251	3.9	6	<5	24	6,825.6

13.01.2021	1	6.1	241	4.3	6	<5	24	6,825.6	
14.01.2021	1	5.8	242	2.6	3	<5	24	6,825.6	
18.01.2021	1	6.1	247	3.7	6	<5	24	6,825.6	
20.01.2020	1	6.1	252	11	12	<5	24	6,825.6	
10.02.2021	1	5.9	305	2.4	5	<5	24	6,825.6	
11.02.2021	1	5.8	305	1.4	<3	<5	24	6,825.6	
22.02.2021	1	6.6	241	18	18	<5	24	6,825.6	
24.02.2021	1	5.9	243	7.2	13	<5	24	6,825.6	
02.03.2021	1	6.3	263	4.3	13	<5	24	6,825.6	
03.03.2021	1	6.4	274	3.8	12	<5	24	6,825.6	
15.03.2021	1	6.1	279	6.4	12	<5	24	6,825.6	
17.03.2021	1	6.1	285	5	13	<5	24	6,825.6	
18.03.2021	1	5.9	276	17	17	<5	24	6,825.6	
29.03.2021	1	6.1	143	2.4	3	<5	24	6,825.6	924 mm of rain recorded at site during March
07.04.2021	1	6.1	150	1.6	4	<5	24	6,825.6	
08.04.2021	1	5.6	152					Qtrly Sample	
08.04.2021	1	6.0	151	1.8	<3	<5	24	6,825.6	
14.04.2021	1	6.1	157	3.1	7	<5	24	6,825.6	
15.04.2021	1	5.9	158	2.9	4	<5	24	6,825.6	
19.04.2021	1	5.9	164	4.8	5	<5	24	6,825.6	
20.04.2021	1	6.3	165	4.3	5	<5	24	6,825.6	
22.04.2021	1	5.7	166	3.1	4	<5	24	6,825.6	
28.04.2021	1	6.0	180	3	5	<5	24	6,825.6	
29.04.2021	1	5.8	179	2.6	4	<5	24	6,825.6	
05.05.2021	1	6.6	193	3.5	6	<5	24	6,825.6	
06.05.2021	1	5.8	192	4.4	6	<5	24	6,825.6	
11.05.2021	1	5.9	216	7.5	8	<5	24	6,825.6	
12.05.2021	1	5.8	208	6.5	8	<5	24	6,825.6	
31.05.2021	1	6.8	258	2.4	4	<5	24	6,825.6	
10.06.2021	1	5.3	234.9					Qtrly Sample	

								279,849.6	**Total Suspended Solids** Max 30 Milligrams per litre	Oil and Grease
Grant's Head Points 2 & 3		Standing Water Level Meters (mAHD)		Standing Water Level Metres (mAHD)		Pollutant	**pH (wet)** Range 5.3 to 7.0	Electrical Conductivity		
	Position ID	Quarterly	**Position ID**	Quarterly	**EPL Point 1 -**	**Units of**	pH	µS/cm	6	<5
08.04.2020	**MW05**	4.884	**MW06**	4.879	20.05.2020	1	6.5	375		
17.06.2020	**MW05**	4.829	**MW06**	4.839						
21.10.2020	**MW05**	4.587	**MW06**	4.643						
11.01.2021	**MW05**	4.889	**MW06**	4.904						
08.04.2021	**MW05**	4.949	**MW06**	4.939						
10.06.2021	**MW05**	4.829	**MW06**	4.905						
									#DIV/0!	**#DIV/0!**
	Mean	**4.81**	Mean	**4.83**		Mean	**#DIV/0!**	**#DIV/0!**	**0.00**	**0.00**
	Lowest	**4.59**	Lowest	**4.64**		Lowest	**0.00**	**0.00**	**0.00**	**0.00**
	Highest	**4.95**	Highest	**4.94**		Highest	**0.00**	**0.00**		

Grant's Head Point 4	**Position ID**	Conductivity	pH	Standing Water Level	Aluminium	Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Zinc
08.04.2020	NW01S	374.9	5.14	-0.245	<0.05	<0.001	<0.0002	<0.001	0.011	<0.001	<0.0001	0.006	0.061
17.06.2020	NW01S	380	5.25	-0.315	<0.05	<0.001	<0.0002	<0.001	0.016	<0.001	<0.0001	0.012	0.046
21.10.2020	NW01S	401	4.83	-1.035	0.06	<0.001	0.0002	<0.001	0.084	0.002	<0.0001	0.013	0.091
12.01.2021	NW01S	377	5.08	0.285	0.3	<0.001	<0.0002	<0.001	0.005	<0.001	<0.0001	0.002	0.043
09.04.2021	NW01S	297	4.64	0.81	0.26	<0.001	<0.0002	<0.001	0.013	<0.001	<0.0001	0.002	0.025
10.06.2021	NW01S	369.3	5.3	0.989	0.07	<0.001	<0.0002	<0.001	0.013	0.001	<0.0001	0.01	0.051
08.04.2020	NW01D	402.5	4.54	-0.8	0.08	<0.001	<0.0002	<0.001	0.028	0.002	<0.0001	0.016	0.11
17.06.2020	NW01D	408	4.56	-0.83	0.09	<0.001	<0.0002	<0.001	0.014	<0.001	<0.0001	0.016	0.067
21.10.2020	NW01D	428	4.84	-1.44	<0.05	<0.001	0.0004	<0.001	0.1	0.003	<0.0001	0.016	0.16
12.01.2021	NW01D	418.84	5.16	-0.3	0.13	<0.001	<0.0002	<0.001	0.006	<0.001	<0.0001	0.003	0.035
09.04.2021	NW01D	346	4.0	0.28	0.45	<0.001	<0.0002	<0.001	0.022	0.002	<0.0001	0.007	0.039
10.06.2021	NW01D	410.5	5.33	0.400	0.33	<0.001	<0.0002	<0.001	0.002	<0.001	<0.0001	0.004	0.012
		NW01S	Mean	**-0.06**	NW01D	Mean	**-0.57**						
		NW01S	Lowest	**-1.04**	NW01D	Lowest	**-1.44**						
		NW01S	Highest	**0.81**	NW01D	Highest	**0.28**						

Grant's Head Point 5	**Position ID**	Conductivity	pH	Standing Water Level	Aluminium	Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Zinc
08.04.2020	NW02S	303.2	4.12	-8.66	0.46	<0.001	<0.0002	<01.001	0.007	<0.001	<0.0001	0.019	0.22
17.06.2020	NW02S	315	4.12	-8.66	0.17	<0.001	<0.0002	<0.001	0.016	<0.001	<0.0001	0.01	0.046
19.10.2020	NW02S	370	4.04	-9.06	0.32	<0.001	0.0003	<0.001	0.11	0.005	<0.0001	0.013	0.14
11.01.2021	NW02S	435	4.41	-8.3	0.53	<0.001	<0.0002	0.003	0.11	<0.001	<0.0001	0.084	0.94
09.04.2021	NW02S	330	5.1	-7.78	0.76	<0.001	<0.0002	<0.001	0.017	<0.001	<0.0001	0.002	0.024
10.06.2021	NW02S	522	6.88	-8.66	0.73	<0.001	<0.0002	<0.001	0.004	<0.001	<0.0001	0.001	0.012
08.04.2020	NW02D	768	6.12	0.255	<0.05	0.004	<0.0002	<0.001	0.012	<0.001	<0.0001	0.017	0.041
17.06.2020	NW02D	753	6.18	0.265	<0.05	0.005	<0.0002	<0.001	0.011	<0.001	<0.0001	0.022	0.043
19.10.2020	NW02D	756	6.05	0.14	<0.05	0.004	<0.0002	<0.001	0.14	0.002	<0.0001	0.026	0.17
11.01.2021	NW02D	862	6.12	0.505	<0.05	0.004	<0.0002	<0.001	<0.001	<0.001	<0.0001	0.017	0.03
09.04.2021	NW02D	629	5.74	1.15	<0.05	0.002	<0.0002	<0.001	0.004	<0.001	<0.0001	0.021	0.021
10.06.2021	NW02D	775	6.86	0.86	<0.05	0.004	<0.0002	<0.001	<0.001	<0.001	<0.0001	0.005	<0.005
		NW02S	Mean	**-8.45**	NW02S	Mean	**-8.45**						
		NW02S	Lowest	**-9.06**	NW02S	Lowest	**-9.06**						
		NW02S	Highest	**-7.78**	NW02S	Highest	**-7.78**						

Grant's Head Point 6	**Position ID**	Conductivity	pH	Standing Water Level	Aluminium	Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Zinc
08.04.2020	NW03S-A	444	5.2	-11.725	<0.05	0.005	<0.0002	<0.001	0.017	<0.001	<0.0001	0.011	0.058
17.06.2020	NW03S-A	435	5.16	-11.815	<0.05	0.006	<0.0002	<0.001	0.012	<0.001	<0.0001	0.015	0.074
19.10.2020	NW03S-A	459.9	4.94	-12.055	<0.05	0.004	0.0002	<0.001	0.075	0.002	<0.0001	0.013	0.18
12.01.2021	NW03S-A	441	4.98	-11.575	<0.05	0.004	<0.0002	<0.001	0.002	<0.001	<0.0001	0.003	0.04
09.04.2021	NW03S-A	360	4.8	-11.695	<0.05	0.002	<0.0002	<0.001	0.002	<0.001	<0.0001	0.017	0.03
10.06.2021	NW03S-A	484.9	6.08	-11.933	<0.25	0.056	<0.001	<0.005	<0.005	<0.005	<0.0005	0.005	<0.025
08.04.2020	NW03D-A	836	6.59	-11.875	<0.05	0.004	<0.0002	<0.001	0.015	0.001	.0.0001	0.011	0.058
17.06.2020	NW03D-A	846	6.63	-11.945	<0.05	0.005	<0.0002	<0.001	0.012	<0.001	<0.0001	0.028	0.044
19.10.2020	NW03D-A	430.5	5.52	-12.205	<0.05	<0.001	0.0003	<0.001	0.034	<0.001	<0.0001	0.011	0.16
12.01.2021	NW03D-A	427	6.27	-11.695	<0.05	<0.001	0.0004	<0.001	0.003	<0.001	<0.0001	0.006	0.13
09.04.2021	NW03D-A	679	6.47	-11.785	<0.05	0.003	<0.0002	<0.001	0.01	<0.001	<0.0001	0.006	0.0045
10.06.2021	NW03D-A	790	6.61	-12.07	<0.05	0.005	<0.0002	<0.001	<0.001	<0.001	<0.0001	0.009	<0.005
		NW03S-A	Mean	**-11.79**	NW03D-A	Mean	**-11.91**						
		NW03S-A	Lowest	**-12.06**	NW03D-A	Lowest	**-12.21**						
		NW03S-A	Highest	**-11.58**	NW03D-A	Highest	**-11.70**						

Grant's Head Quarry - Licence Number 4040

Blasting	Frequency	Date	Limits	Units of measure	Results Bonny Hills 1st House	Results - Sherrod Park	Blast No #
Ground Vibration	Per Blast	18.01.2018	5 - trigger point >0.27	mm/s	**3.97**	**Nil Trigger**	#120
Overpressure	Per Blast	18.01.2018	115 - Trigger point >100	dB	**107.1**	**Nil Trigger**	#120
Ground Vibration	Per Blast	13.02.2018	5 - trigger point >0.27	mm/s	**2.5**	**0.13**	#121
Overpressure	Per Blast	13.02.2018	115 - Trigger point >100	dB	**108.6**	**115.0**	#121
Ground Vibration	Per Blast	10.04.2018	5 - trigger point >0.27	mm/s	**1.79**	**Nil Trigger**	#122
Overpressure	Per Blast	10.04.2018	115 - Trigger point >100	dB	**104.1**	**Nil Trigger**	#122
Ground Vibration	Per Blast	29.06.2018	5 - trigger point >0.27	5 - trigger point >0.27	**1.6**	**0.51**	#123
Overpressure	Per Blast	29.06.2018	115 - Trigger point >100	115 - Trigger point >100	**105.1**	**101.9**	#123
Ground Vibration	Per Blast	20.08.2018	5 - trigger point >0.27	5 - trigger point >0.30	**2.38**	**Nil Trigger**	#124
Overpressure	Per Blast	20.08.2018	115 - Trigger point >100	115 - Trigger point >100	**113.3**	**Nil Trigger**	#124
Ground Vibration	Per Blast	05.02.2019	5 - trigger point >0.27	5 - trigger point >0.30	**3.55**	**3.17**	#125
Overpressure	Per Blast	05.02.2019	115 - Trigger point >100	115 - Trigger point >100	**109.8**	**114.6**	#125
Ground Vibration	Per Blast	22.01.2020	5 - trigger point >0.27	5 - trigger point >0.30	**3.07**	**Nil Trigger**	#126
Overpressure	Per Blast	22.01.2020	115 - Trigger point >100	115 - Trigger point >100	**105.7**	**Nil Trigger**	#126
Ground Vibration	Per Blast	09.04.2020	5 - trigger point >0.27	5 - trigger point >0.30	**Nil Trigger**	**Nil Trigger**	#127
Overpressure	Per Blast	09.04.2020	115 - Trigger point >100	115 - Trigger point >100	**Nil Trigger**	**Nil Trigger**	#127

Ground Vibration	Per Blast	25.06.2020	5 - trigger point >0.27	5 - trigger point >0.30	**1.7**	**Nil Trigger**	#128
Overpressure	Per Blast	25.06.2020	115 - Trigger point >100	115 - Trigger point >100	**111.5**	**Nil Trigger**	#128
Ground Vibration	Per Blast	20.11.2020	5 - trigger point >0.27	5 - trigger point >0.30	**3.24**	**0.13**	#129
Overpressure	Per Blast	20.11.2020	115 - Trigger point >100	115 - Trigger point >100	**82.7**	**112.0**	#129
Ground Vibration	Per Blast	04.06.2021	5 - trigger point >0.27	5 - trigger point >0.30	**3.96**	**0.13**	#130
Overpressure	Per Blast	04.06.2021	115 - Trigger point >100	115 - Trigger point >100	**108.5**	**100.0**	#130

Tumbulgum EPL 3430

Tumbulgum Point 1	**WM 1**	**Pollutant**	**OIL and Grease -**10 Milligrams per lt.	**Total Suspended Solids** Max 50 Milligrams per litre	**pH (wet)** Range 6.5 to 8.5	**Requirement to Monitor Volume or Mass**	
Month	**Number of Samples**	**Frequency**	Less than 24 hours before Discharge	Less than 24 hours before Discharge	Less than 24 hours before Discharge	Daily when wastes (water) discharged Klitres per day	Why Sampled - Discharge or Random?
Jul-2020	0						**Nil Discharge**
Aug-2020	0						**Nil Discharge**
Sep-2020	0						**Nil Discharge**
Oct-2020	0						**Nil Discharge**
Nov-2020	0						**Nil Discharge**
Dec-2020	0						**Nil Discharge**
Jan-2021	0						**Nil Discharge**
Feb-2021	0						**Nil Discharge**
Mar-2021	0						**Nil Discharge**
Apr-2021	0						**Nil Discharge**
May-2021	0						**Nil Discharge**
Jun-2021	0						**Nil Discharge**

Tumbulgum Point 2	**WM 2**	**Pollutant**	**OIL and Grease -**10 Milligrams per lt.	**Total Suspended Solids** Max 50 Milligrams per litre	**pH (wet)** Range 6.5 to 8.5	**Requirement to Monitor Volume or Mass**	
Month	**Number of Samples**	**Frequency**		Monthly during discharge	<24hrs prior to discharge	Daily when wastes (water) discharged Klitres per day	Why Sampled - Discharge or Random?
Jul-2020	0						**Nil Discharge**
Aug-2020	0						**Nil Discharge**
Sep-2020	0						**Nil Discharge**
Oct-2020	0						**Nil Discharge**
Nov-2020	0						**Nil Discharge**
Dec-2020	0						**Nil Discharge**
Jan-2021	0						**Nil Discharge**
Feb-2021	0						**Nil Discharge**
Mar-2021	0						**Nil Discharge**
Apr-2021	0						**Nil Discharge**
May-2021	0						**Nil Discharge**
Jun-2021	0						**Nil Discharge**

Tumbulgum Additional to EPL requirements testing sites	**Site Location**	**Pollutant**	**OIL and Grease -**10 Milligrams per lt.	**Total Suspended Solids** Max 50 Milligrams per litre	**pH (wet)** Range 6.5 to 8.5	**Requirement to Monitor Volume or Mass**	
Date	**location**	**Samples**		Monthly during	<24hrs prior to	Daily when	Why Sampled -
11.02.2020	SB3	1	<2	4.8	3.9		300+mm Rainfall
13.03.2020	Pit	1	<2	2	3.3		

EPL 3430 - Condition L2.5 The concentration limits in the above tables do not apply to any discharge from the final sediment basin arising from rainfall exceeding 82.5mm in total falling over any consecutive five day period

Tumbulgum EPL 3430

Tumbulgum Blast Monitoring results

Blasting	Frequency	Date	Limits	Units of measure	Loc # 1 - 43 Pollard Rd	Loc # 2 - 2 Pollard Rd	Loc # 3 - 729 - 731 Dulguigan Rd	Blast #
Ground Vibration	Per Blast	26.03.2020	5 - trigger point >0.26	mm/s	0.38	1.79	Not required	#56
Overpressure	Per Blast	26.03.2020	Max 115 - Trigger point >100	dB	106.5	109.5	Not required	#56
Ground Vibration	Per Blast	03.04.2020	5 - trigger point >0.26	mm/s	0.43	0.47	Not required	#57
Overpressure	Per Blast	03.04.2020	Max 115 - Trigger point >100	dB	103.5	98.8	Not required	#57
Ground Vibration	Per Blast	03.04.2020	5 - trigger point >0.26	mm/s	0.74	0.47	Not required	#58
Overpressure	Per Blast	03.04.2020	Max 115 - Trigger point >100	dB	101.4	95.9	Not required	#58
Ground Vibration	Per Blast	08.05.2020	5 - trigger point >0.26	mm/s	0.51	0.84	Not required	#59
Overpressure	Per Blast	08.05.2020	Max 115 - Trigger point >100	dB	88.0	104.2	Not required	#59
Ground Vibration	Per Blast	08.05.2020	5 - trigger point >0.26	mm/s	0.29	0.32	Not required	#60
Overpressure	Per Blast	08.05.2020	Max 115 - Trigger point >100	dB	88.0	106.0	Not required	#60
Ground Vibration	Per Blast	22.06.2020	5 - trigger point >0.26	mm/s	0.69	0.78	Not required	#61
Overpressure	Per Blast	22.06.2020	Max 115 - Trigger point >100	dB	103.5	103.5	Not required	#61
Ground Vibration	Per Blast	11.08.2020	5 - trigger point >0.26	mm/s	0.79	1.06	Not required	#62
Overpressure	Per Blast	11.08.2020	Max 115 - Trigger point >100	dB	101.9	104.9	Not required	#62
Ground Vibration	Per Blast	11.08.2020	5 - trigger point >0.26	mm/s	0.79	1.06	Not required	#63
Overpressure	Per Blast	11.08.2020	Max 115 - Trigger point >100	dB	101.9	104.9	Not required	#63
Ground Vibration	Per Blast	27.08.2020	5 - trigger point >0.26	mm/s	0.83	1.46	Not required	#64
Overpressure	Per Blast	27.08.2020	Max 115 - Trigger point >100	dB	111.8	112.8	Not required	#64
Ground Vibration	Per Blast	27.08.2020	5 - trigger point >0.26	mm/s	0.83	1.46	Not required	#65
Overpressure	Per Blast	27.08.2020	Max 115 - Trigger point >100	dB	111.8	112.8	Not required	#65
Ground Vibration	Per Blast	29.10.2020	5 - trigger point >0.26	mm/s	0.31	0.55	Not required	#66
Overpressure	Per Blast	29.10.2020	Max 115 - Trigger point >100	dB	103.5	108.0	Not required	#66
Ground Vibration	Per Blast	29.10.2020	5 - trigger point >0.26	mm/s	0.58	0.29	Not required	#67
Overpressure	Per Blast	29.10.2020	Max 115 - Trigger point >100	dB	101.9	106.5	Not required	#67
Ground Vibration	Per Blast	11.12.2020	5 - trigger point >0.26	mm/s	0.93	1.17	Not required	#68
Overpressure	Per Blast	11.12.2020	Max 115 - Trigger point >100	dB	101.9	100.0	Not required	#68
Ground Vibration	Per Blast	11.12.2020	5 - trigger point >0.26	mm/s	0.78	No Trigger	Not required	#69
Overpressure	Per Blast	11.12.2020	Max 115 - Trigger point >100	dB	102.8	No Trigger	Not required	#69
Ground Vibration	Per Blast	19.02.2021	5 - trigger point >0.26	mm/s	0.64	0.83	Not required	#70
Overpressure	Per Blast	19.02.2021	Max 115 - Trigger point >100	dB	109.9	106.0	Not required	#70
Ground Vibration	Per Blast	11.12.2020	5 - trigger point >0.26	mm/s	0.66	No Trigger	Not required	#71
Overpressure	Per Blast	11.12.2020	Max 115 - Trigger point >95	dB	97.5	No Trigger	Not required	#71
Ground Vibration	Per Blast	19.02.2021	5 - trigger point >0.26	mm/s	0.34	1.56	Not required	#72
Overpressure	Per Blast	19.02.2021	Max 115 - Trigger point >100	dB	108.8	113.8	Not required	#72
Ground Vibration	Per Blast	26.02.2021	5 - trigger point >0.26	mm/s	0.41	0.32	Not required	#73
Overpressure	Per Blast	26.02.2021	Max 115 - Trigger point >100	dB	98.8	101.9	Not required	#73
Ground Vibration	Per Blast	01.04.2021	5 - trigger point >0.26	mm/s	0.33	0.51	Not required	#74
Overpressure	Per Blast	01.04.2021	Max 115 - Trigger point >100	dB	101.0	104.9	Not required	#74
Ground Vibration	Per Blast	01.04.2021	5 - trigger point >0.26	mm/s	0.59	0.64	Not required	#75
Overpressure	Per Blast	01.04.2021	Max 115 - Trigger point >100	dB	101.9	105.5	Not required	#75
Ground Vibration	Per Blast	07.05.2021	5 - trigger point >0.26	mm/s	1.59	0.60	Not required	#76
Overpressure	Per Blast	07.05.2021	Max 115 - Trigger point >100	dB	107.0	104.9	Not required	#76
Ground Vibration	Per Blast	07.05.2021	5 - trigger point >0.26	mm/s	1.59	0.60	Not required	#77
Overpressure	Per Blast	07.05.2021	Max 115 - Trigger point >100	dB	107.0	104.9	Not required	#77

Yarrabee Rd Quarry - Licence Number 11462

Yarrabee Rd Point 3		Pollutant	Total Suspended Solids Max 50 Milligrams per litre	pH (wet) Range 6.5 to 8.5	Requirement to Monitor Volume or Mass	
Month	Number of	Frequency	<24hrs prior to discharge	<24hrs prior to	Daily when	
16.10.2019	1		10	8.8	0	Sample only
02.03.2020	1		6	8.4	0	Sample only
10.06.2020	1		24	8	2.7ML	Pump discharge
21.04.2021	1		7	8.2	0	Sample only
Number of samples	4					

Mean	**11.75**	**8.35**	-
Lowest	**6.00**	**8.00**	-
Highest	**24.00**	**8.80**	-

Yarrabee Rd Quarry - Licence Number 11462

Blasting	Frequency	Date	Limits	Units of measure	Results	Blast #	Blast ID
Ground Vibration	Per Blast	03.07.2018	5 - trigger point >0.50	mm/s	**0.80**	#75	YRQ-1804
Overpressure	Per Blast	03.07.2018	Max 115 - Trigger point >100dB	dB	**111.0**	#75	YRQ-1804
Ground Vibration	Per Blast	31.07.2018	5 - trigger point >0.50	mm/s	**1.37**	#76	YRQ-1805
Overpressure	Per Blast	31.07.2018	Max 115 - Trigger point >100dB	dB	**114.3**	#76	YRQ-1805
Ground Vibration	Per Blast	17.09.2018	5 - trigger point >0.50	mm/s	**0.77**	#77	YRQ-1806
Overpressure	Per Blast	17.09.2018	Max 115 - Trigger point >100dB	dB	**106.3**	#77	YRQ-1806
Ground Vibration	Per Blast	30.10.2018	5 - trigger point >0.50	mm/s	**Nil Trigger**	#78	YRQ-1807
Overpressure	Per Blast	30.10.2018	Max 115 - Trigger point >100dB	dB	**Nil Trigger**	#78	YRQ-1807
Ground Vibration	Per Blast	20.11.2018	5 - trigger point >0.50	mm/s	**0.56**	#79	YRQ-1808
Overpressure	Per Blast	20.11.2018	Max 115 - Trigger point >100dB	dBl	**108.8**	#79	YRQ-1808
Ground Vibration	Per Blast	21.01.2019	5 - trigger point >0.50	mm/s	**0.65**	#80	YRQ-1901
Overpressure	Per Blast	21.01.2019	Max 115 - Trigger point >100dB	dBl	**110.2**	#80	YRQ-1901
Ground Vibration	Per Blast	06.03.2019	5 - trigger point >0.50	mm/s	**0.87**	#81	YRQ-1902
Overpressure	Per Blast	06.03.2019	Max 115 - Trigger point >100dB	dBl	**103.9**	#81	YRQ-1902
Ground Vibration	Per Blast	15.04.2019	5 - trigger point >0.50	mm/s	**0.84**	#82	YRQ-1903
Overpressure	Per Blast	15.04.2019	Max 115 - Trigger point >100dB	dBl	**110.2**	#82	YRQ-1903
Ground Vibration	Per Blast	19.07.2019	5 - trigger point >0.50	mm/s	**0.71**	#83	YRQ-1904
Overpressure	Per Blast	19.07.2019	Max 115 - Trigger point >100dB	dBl	**107.8**	#83	YRQ-1904
Ground Vibration	Per Blast	20.09.2019	5 - trigger point >0.30	mm/s	**Nil Trigger**	#84.	YRQ-1905
Overpressure	Per Blast	20.09.2019	Max 115 - Trigger point >100dB	dBl	**Nil Trigger**	#84	YRQ-1905
Ground Vibration	Per Blast	14.01.2020	5 - trigger point >0.30	mm/s	**Nil Trigger**	#85	YRQ-2001
Overpressure	Per Blast	14.01.2020	Max 115 - Trigger point >100dB	dBl	**Nil Trigger**	#85	YRQ-2001
Ground Vibration	Per Blast	31.03.2020	5 - trigger point >0.30	mm/s	**Nil Trigger**	#86	YRQ-2002
Overpressure	Per Blast	31.03.2020	Max 115 - Trigger point >100dB	dBl	**Nil Trigger**	#86	YRQ-2002
Ground Vibration	Per Blast	26.05.2020	5 - trigger point >0.30	mm/s	**1.02**	#87	YRQ-2003
Overpressure	Per Blast	26.05.2020	Max 115 - Trigger point >100dB	dBl	**104.3**	#87	YRQ-2003
Ground Vibration	Per Blast	09.09.2020	5 - trigger point >0.30	mm/s	**Nil Trigger**	#88	YRQ-2004
Overpressure	Per Blast	09.09.2020	Max 115 - Trigger point >100dB	dBl	**Nil Trigger**	#88	YRQ-2004
Ground Vibration	Per Blast	02.12.2020	6 - trigger point >0.30	mm/s	**2.46**	#89	YRQ-2005
Overpressure	Per Blast	02.12.2020	Max 115 - Trigger point >100dB	dBl	**113.8**	#89	YRQ-2005
Ground Vibration	Per Blast	29.01.2021	6 - trigger point >0.30	mm/s	**Nil Trigger**	#90	YRQ-2101
Overpressure	Per Blast	29.01.2021	Max 115 - Trigger point >100dB	dBl	**Nil Trigger**	#90	YRQ-2101
Ground Vibration	Per Blast	07.04.2021	6 - trigger point >0.30	mm/s	**Nil Trigger**	#91	YRQ-2102
Overpressure	Per Blast	07.04.2021	Max 115 - Trigger point >100dB	dBl	**Nil Trigger**	#91	YRQ-2102
Ground Vibration	Per Blast	10.05.2021	6 - trigger point >0.30	mm/s	**2.48**	#92	YRQ-2103
Overpressure	Per Blast	10.05.2021	Max 115 - Trigger point >100dB	dBl	**109.5**	#92	YRQ-2103