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**
Total		**0**	**0**	**0**	**0**	**0**	**0**	**0**		
	Mean	**#DIV/0!**	**#DIV/0!**	**#DIV/0!**	**#DIV/0!**	**#DIV/0!**	**#DIV/0!**	**#DIV/0!**		
	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**		

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
18/07/2023	1	8.5	177	1.2	129	<5	<2	<5		**Nil Discharge - Monthly sample**
17/08/2023	1	7.9	280	2.5	125	<5	<2	<5		**Nil Discharge - Monthly sample**
18/09/2023	1	7.7	287	1	172	<5	<2	<5		**Nil Discharge - Monthly sample**
19/10/2023	1	7.1	276	4	132	<5	2	<5		**Nil Discharge - Monthly sample**
Total		**31.2**	**1020**	**8.7**	**558**	**0**	**2**	**0**		
	Mean	**7.80**	**255.00**	**2.18**	**139.50**	**#DIV/0!**	**2.00**	**#DIV/0!**		
	Lowest	**7.10**	**177.00**	**1.00**	**125.00**	**0.00**	**2.00**	**0.00**		
	Highest	**8.50**	**287.00**	**4.00**	**172.00**	**0.00**	**2.00**	**0.00**		

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 KL	Comment	
18/07/2023	1	7.1	187	1.1	138	<5	<2	<5		**Nil Discharge - Monthly sample**	
17/08/2023	1	7.7	235	2.0	131	<5	<2	<5		**Nil Discharge - Monthly sample**	
18/09/2023	1	6.9	302	1.6	184	<5	2	<5		**Nil Discharge - Monthly sample**	
19/10/2023	1	7.3	280	2	146	<5	<2	<5		**Nil Discharge - Monthly sample**	
Total		**0.0**	**0**	**0**	**0**	**0**	**0**	**0**			
	Mean	**7.25**	**251.00**	**1.68**	**149.75**	**#DIV/0!**	**2.00**	**#DIV/0!**			**0.00**
	Lowest	**6.90**	**187.00**	**1.10**	**131.00**	**0.00**	**2.00**	**0.00**			**0.00**
	Highest	**7.70**	**302.00**	**2.00**	**184.00**	**0.00**	**2.00**	**0.00**			

Dust Monitoring EPL Point 4

Period	Month	Number of	Sawmill	Insoluble Solids	Combustible Matter	Ash
16/06/2023 - 18/07/2023	Jul-2023	continuous	Sawmill	<0.1	<0.1	<0.1
18/07/2023 - 17/08/2023	Aug-2023	continuous	Sawmill	0.8	0.5	0.3
17/08/2023 - 18/09/2023	Sep-2023	continuous	Sawmill	0.6	0.4	0.2
18/09/2023 - 19/10/2023	Oct-2023	continuous	Sawmill	0.9	0.5	0.4
		continuous	Sawmill			
		continuous	Sawmill			
		continuous	Sawmill			
		continuous	Sawmill			
		continuous	Sawmill			
		continuous	Sawmill			
		continuous	Sawmill			
		continuous	Sawmill			
		continuous	Sawmill			
				2.3	**1.4**	**0.9**
			Mean	**0.77**	**0.47**	**0.30**
			Lowest	**0.6**	**0.4**	**0.2**
			Highest	**0.9**	**0.5**	**0.4**

Dust Monitoring EPL Point 5

Month	Month	Number of	Baners Lane	Insoluble Solids	Combustible Matter	Ash
16/06/2023 - 18/07/2023	Jul-2023	continuous	Baners Lane	0.3	0.1	0.2
18/07/2023 - 17/08/2023	Aug-2023	continuous	Baners Lane	0.7	0.5	0.2
17/08/2023 - 18/09/2023	Sep-2023	continuous	Baners Lane	0.8	0.5	0.3
18/09/2023 - 19/10/2023	Oct-2023	continuous	Baners Lane	0.2	0.1	0.1
		continuous	Baners Lane			
		continuous	Baners Lane			
		continuous	Baners Lane			
		continuous	Baners Lane			
		continuous	Baners Lane			
		continuous	Baners Lane			
		continuous	Baners Lane			
		continuous	Baners Lane			
				2	**1.2**	**0.8**
			Mean	**0.50**	**0.30**	**0.20**
			Lowest	**0.2**	**0.1**	**0.1**
			Highest	**0.8**	**0.5**	**0.3**

Dust Monitoring EPL Point 6

Month	Month	Number of	Bald Hill	Insoluble Solids	Combustible Matter	Ash
16/06/2023 - 18/07/2023	Jul-2023	continuous	Bald Hill	0.4	0.3	0.1
18/07/2023 - 17/08/2023	Aug-2023	continuous	Bald Hill	0.6	0.5	0.1

17/08/2023 - 18/09/2023	Sep-2023	continuous	Bald Hill	0.5	0.3	0.2
18/09/2023 - 19/10/2023	Oct-2023	continuous	Bald Hill	0.5	0.1	0.4
		continuous	Bald Hill			
		continuous	Bald Hill			
		continuous	Bald Hill			
		continuous	Bald Hill			
		continuous	Bald Hill			
		continuous	Bald Hill			
		continuous	Bald Hill			
		continuous	Bald Hill			
				2	**1.2**	**0.8**
			Mean	**0.50**	**0.30**	**0.20**
			Lowest	**0.4**	**0.1**	**0.1**
			Highest	**0.6**	**0.5**	**0.4**

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
									1000	
31/07/2023	0									Nil Discharge - NO Sample
31/08/2023	0									Nil Discharge - NO Sample
30/09/2023	0									Nil Discharge - NO Sample
31/10/2023	0									Nil Discharge - NO Sample
		0	**0**	**0**	**0**	**0**	**0**	**0**		
	Mean	**#DIV/0!**	**#DIV/0!**	**#DIV/0!**	**#DIV/0!**	**#DIV/0!**	**#DIV/0!**	**#DIV/0!**		
	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**		

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
									2000	
31/07/2023	0									Nil Discharge - NO Sample
31/08/2023	0									Nil Discharge - NO Sample
30/09/2023	0									Nil Discharge - NO Sample
31/10/2023	0									Nil Discharge - NO Sample
		0	**0**	**0**	**0**	**0**	**0**	**0**		
	Mean	**#DIV/0!**	**#DIV/0!**	**#DIV/0!**	**#DIV/0!**	**#DIV/0!**	**#DIV/0!**	**#DIV/0!**		
	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**		

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
31/07/2023	0									Nil Discharge - NO Sample
31/08/2023	0									Nil Discharge - NO Sample
30/09/2023	0									Nil Discharge - NO Sample
31/10/2023	0									Nil Discharge - NO Sample
		0	**0**	**0**	**0**	**0**	**0**	**0**		
	Mean	**#DIV/0!**	**#DIV/0!**	**#DIV/0!**	**#DIV/0!**	**#DIV/0!**	**#DIV/0!**	**#DIV/0!**		
	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**		

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 -	Comment
									2000	
31/07/2023	0									Nil Discharge - NO Sample
31/08/2023	0									Nil Discharge - NO Sample
30/09/2023	0									Nil Discharge - NO Sample
31/10/2023	0									Nil Discharge - NO Sample
		0	**0**	**0**	**0**	**0**	**0**	**0**		
	Mean	**#DIV/0!**	**#DIV/0!**	**#DIV/0!**	**#DIV/0!**	**#DIV/0!**	**#DIV/0!**	**#DIV/0!**		
	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	3rd Monitor - South east of quarry	
Ground Vibration	Per Blast	14/06/2023	243	5 - trigger point >0.51	dB	Nil Trigger	Nil Trigger	Not required	1.44pm
Overpressure	Per Blast	14/06/2023	243	115 - Trigger point <100	dB	Nil Trigger	Nil Trigger	Not required	1.44pm
Ground Vibration	Per Blast	3/07/2023	244	5 - trigger point >0.51	dB	Nil Trigger	Nil Trigger	Not required	1.10pm
Overpressure	Per Blast	3/07/2023	244	115 - Trigger point <100	dB	Nil Trigger	Nil Trigger	Not required	1.10pm
Ground Vibration	Per Blast	28/07/2023	245	6 - trigger point >0.51	dB	Nil Trigger	Nil Trigger	Not required	11.33am
Overpressure	Per Blast	28/07/2023	245	116 - Trigger point <100	dB	Nil Trigger	Nil Trigger	Not required	11.33am
Ground Vibration	Per Blast	9/08/2023	246	7 - trigger point >0.51	dB	Nil Trigger	Nil Trigger	Not required	12.02pm
Overpressure	Per Blast	9/08/2023	246	117 - Trigger point <100	dB	Nil Trigger	Nil Trigger	Not required	12.02pm
Ground Vibration	Per Blast	1/09/2023	247	8 - trigger point >0.51	dB	Nil Trigger	Nil Trigger	Not required	12.06pm
Overpressure	Per Blast	1/09/2023	247	118 - Trigger point <100	dB	Nil Trigger	Nil Trigger	Not required	12.06pm
Ground Vibration	Per Blast	13/09/2023	248	9 - trigger point >0.51	dB	Nil Trigger	Nil Trigger	Not required	1.32pm
Overpressure	Per Blast	13/09/2023	248	119 - Trigger point <100	dB	Nil Trigger	Nil Trigger	Not required	1.32pm
Ground Vibration	Per Blast	11/10/2023	249	10 - trigger point >0.51	dB	Nil Trigger	Nil Trigger	Not required	12.13pm
Overpressure	Per Blast	11/10/2023	249	120 - Trigger point <100	dB	Nil Trigger	Nil Trigger	Not required	12.13pm
Ground Vibration	Per Blast	30/10/2023	250	11 - trigger point >0.51	dB	Nil Trigger	Nil Trigger	Not required	1.55pm

Overpressure	Per Blast	30/10/2023	250	121 - Trigger point <100	dB	Nil Trigger	Nil Trigger	Not required	1.55pm

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**										
29/05/2023	1	0.477	0.0002	0.0005	0.0009	0.411	0.001	<0.00001	0.0259	0.044	Hy-Tec Qtrly Sample
06/06/2023	1	0.45	<0.001	0.0005	<0.001	0.42	0.001	<0.0001	0.025	0.043	ERM Qtrly sample
29/08/2023	1	0.315	0.0002	0.0004	0.0005	0.304	0.0004	<0.00001	0.0244	0.044	Hy-Tec 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	COMMENTS
Date	No. of samples										
06/06/2023	1	0.07	<0.001	<0.0002	<0.001	0.002	<0.001	<0.0001	<0.001	0.006	ERM Qtrly sample

	Pollutant	pH	µS/cm	
Wetland site	**Units of Measure**	mg/l	mg/l	
06/06/2023		6.03	253.9	ERM Qtrly sample

	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**	COMMENTS
Month	Number of	pH	µS/cm	NTU	mg/l	Visible	Hours	KL	
29/05/2023	1	6.2	375	2.4	6	<5	24	6,825.6	Qtrly sampling
6/06/2023	1	4.9	396					Nil Discharge -	ERM Qtrly sample -
27/06/2023	1	6.0	369	2.1	7	<5	24	6,825.6	
18/07/2023	1	6.5	382	16	15	<5	24	6,825.6	
24/07/2023	1	6.1	380	5.3	7	<5	24	6,825.6	
29/08/2023	1	6.1	379	1.8	3	<5	24	6,825.6	Qtrly sampling
	Mean	**6.18**	**377.50**	**6.30**	**8.00**	**#DIV/0!**			
	Lowest	**6.00**	**369.00**	**1.80**	**3.00**	**0.00**			
	Highest	**6.50**	**382.00**	**16.00**	**15.00**	**0.00**			
								27,302.4	

Grant's Head Points 2 & 3		Standing Water Level Meters (mAHD)		Standing Water Level Metres (mAHD)
	Position ID	Quarterly	**Position ID**	Quarterly
03.06.2022	**MW05**	4.914	**MW06**	5.009
17/10/2022	**MW05**	4.885	**MW06**	4.944
07/12/2022	**MW05**	4.823	**MW06**	4.894
24/02/2023	**MW05**	4.659	**MW06**	4.735
06/06/2023	**MW05**	4.713	**MW06**	4.773
	Mean	**#DIV/0!**	Mean	**#DIV/0!**
	Lowest	**0.000**	Lowest	**0.000**
	Highest	**0.000**	Highest	**0.000**

Grant's Head Point 4	**Position ID**	Conductivity	pH	Standing Water Level	Aluminium	Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Zinc
24/02/2023	NW01D	254.7	5.74	-2.324	<0.05	<0.001	<0.0002	<0.001	<0.001	<0.001	<0.0001	0.003	0.006
06/06/2023	NW01D	487.9	7.71	-1.596	<0.05	<0.001	<0.0002	<0.001	<0.001	<0.001	<0.0001	0.002	<0.005
24/02/2023	NW01S	421.9	5.5	-1.45	0.36	<0.001	<0.0002	<0.001	0.003	<0.001	<0.0001	0.002	0.008
06/06/2023	NW01S	521	8.41	-0.781	0.38	<0.001	<0.0002	<0.001	0.003	<0.001	<0.0001	0.001	<0.005

NW01D	Mean	**#DIV/0!**	NW01S	Mean	**#DIV/0!**
NW01D	Lowest	**0.000**	NW01S	Lowest	**0.000**
NW01D	Highest	**0.000**	NW01S	Highest	**0.000**

Grant's Head Point 5	**Position ID**	Conductivity	pH	Standing Water Level	Aluminium	Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Zinc
24/02/2023	NW02D	782	6.3	0.804	<0.05	0.003	<0.0002	<0.001	<0.001	<0.001	<0.0001	0.009	<0.005
06/06/2023	NW02D	464.7	6.24	0.865	<0.05	0.001	<0.0002	<0.001	<0.001	<0.001	<0.0001	0.001	<0.005
24/02/2023	NW02S	324.7	5.00	-9.012	0.53	<0.001	<0.0002	0.001	0.002	<0.001	<0.0001	<0.001	<0.005
06/06/2023	NW02S	311.7	5.04	-9.059	0.47	<0.001	<0.0002	<0.001	0.003	<0.001	<0.0001	0.001	<0.005

NW02S	Mean	**#DIV/0!**	NW02D	Mean	**#DIV/0!**

NW02S	Lowest	**0.000**	NW02D	Lowest	**0.000**
NW02S	Highest	**0.000**	NW02D	Highest	**0.000**

Grant's Head Point 6	Position ID	Conductivity	pH	Standing Water Level	Aluminium	Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Zinc
24/02/2023	NW03D-A	970	6.67	-12.346	<0.05	0.001	<0.0002	<0.001	<0.001	<0.001	<0.0001	0.002	<0.005
06/06/2023	NW03D-A	321.8	7.24	-12.192	<0.05	<0.001	<0.0002	<0.001	<0.001	<0.001	<0.001	<0.001	0.014
24/02/2023	NW03S-A	276	5.55	-12.038	<0.05	0.005	<0.0002	0.001	<0.001	<0.001	<0.0001	0.003	0.007
06/06/2023	NW03S-A	60.9	7.24	-12.038	0.06	0.004	<0.0002	<0.001	<0.001	<0.001	<0.0001	0.002	0.022

NW03D-A	Mean	**#DIV/0!**	NW03S-A	Mean	**#DIV/0!**
NW03D-A	Lowest	**0.000**	NW03S-A	Lowest	**0.000**
NW03D-A	Highest	**0.000**	NW03S-A	Highest	**0.000**

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	17.01.2022	5 - trigger point >0.27	5 - trigger point >0.10	**1.41**	**0.25**	#133	
Overpressure	Per Blast	17.01.2022	115 - Trigger point >100	115 - Trigger point >100	**101.8**	**102.8**	#133	
Ground Vibration	Per Blast	06/06/2022	5 - trigger point >0.27	5 - trigger point >0.10	**2.16**	**0.13**	#134	
Overpressure	Per Blast	06/06/2022	115 - Trigger point >100	115 - Trigger point >100	**105.9**	**101.9**	#134	
Ground Vibration	Per Blast	20/09/2022	6 - trigger point >0.27	6 - trigger point >0.10	**3.18**	**0.21**	#135	
Overpressure	Per Blast	20/09/2022	115 - Trigger point >100	115 - Trigger point >100	**103.5**	**108.5**	#135	
Ground Vibration	Per Blast	21/02/2023	7 - trigger point >0.27	7 - trigger point >0.10	**1.44**	**0.25**	#136	12.49pm
Overpressure	Per Blast	21/02/2023	115 - Trigger point >100	115 - Trigger point >100	**100.9**	**108.0**	#136	
Ground Vibration	Per Blast	01/05/2023	8 - trigger point >0.27	8 - trigger point >0.10	**2.17**	**0.13**	#137	12.55pm
Overpressure	Per Blast	01/05/2023	115 - Trigger point >100	115 - Trigger point >100	**111.7**	**103.5**	#137	
Ground Vibration	Per Blast	29/08/2023	8 - trigger point >0.27	8 - trigger point >0.10	**2.4**	**0.13**	#138	12.54pm
Overpressure	Per Blast	29/08/2023	115 - Trigger point >100	115 - Trigger point >100	**110.0**	**106.0**	#138	
Ground Vibration	Per Blast	12/10/2023	9 - trigger point >0.27	9 - trigger point >0.27	**0.57**	**No Trigger**	#138	1.34pm
Overpressure	Per Blast	12/10/2023	115 - Trigger point >100	115 - Trigger point >95	**96.8**	**No Trigger**	#138	

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-2023	0						**Nil Controlled Discharge**
Aug-2023	0						**Nil Controlled Discharge**
Sep-2023	0						**Nil Controlled Discharge**
Oct-2023	0						**Nil Controlled Discharge**
Nov-2023							
Dec-2023							
Jan-2024							
Feb-2024							
Mar-2024							
Apr-2024							
May-2024							
Jun-2024							

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-2023	0						**Nil Controlled Discharge**
Aug-2023	0						**Nil Controlled Discharge**
Sep-2023	0						**Nil Controlled Discharge**
Oct-2023	0						**Nil Controlled Discharge**
Nov-2023							
Dec-2023							
Jan-2024							
Feb-2024							
Mar-2024							
Apr-2024							
May-2024							
Jun-2024							

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 discharge	Daily when	Why Sampled - Discharge

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 - 23 Pollard Rd	Loc # 3 - 729 - 731 Dulguigan Rd	Blast #	
Ground Vibration	Per Blast	02.03.2023	12 - trigger point >0.26	mm/s	**1.02**	**1.65**	Not required	#103	12.31
Overpressure	Per Blast	02.03.2023	Max 115 - Trigger point >107	dB	**111.20**	**112.80**	Not required	#103	
Ground Vibration	Per Blast	02.03.2023	13 - trigger point >0.26	mm/s	**1.02**	**1.65**	Not required	#104	12.31
Overpressure	Per Blast	02.03.2023	Max 115 - Trigger point >108	dB	**111.20**	**112.80**	Not required	#104	
Ground Vibration	Per Blast	29.05.2023	13 - trigger point >0.26	mm/s	**1.40**	**2.40**	Not required	#105	2.00pm
Overpressure	Per Blast	29.05.2023	Max 115 - Trigger point >108	dB	**114.40**	**113.20**	Not required	#105	
Ground Vibration	Per Blast	29.05.2023	13 - trigger point >0.26	mm/s	**1.40**	**2.40**	Not required	#106	2.00pm
Overpressure	Per Blast	29.05.2023	Max 115 - Trigger point >108	dB	**114.40**	**113.20**	Not required	#106	
Ground Vibration	Per Blast	16.08.2023	14 - trigger point >0.26	mm/s	**1.78**	**Not Required**	Not required	#107	3.15pm
Overpressure	Per Blast	16.08.2023	Max 115 - Trigger point >109	dB	**114.50**	**Not Required**	Not required	#107	
Ground Vibration	Per Blast	16.08.2023	15 - trigger point >0.26	mm/s	**1.78**	**Not Required**	Not required	#108	3.15pm
Overpressure	Per Blast	16.08.2023	Max 115 - Trigger point >110	dB	**114.50**	**Not Required**	Not required	#108	
Ground Vibration	Per Blast	16.08.2023	16 - trigger point >0.26	mm/s	**1.78**	**Not Required**	Not required	#109	3.15pm
Overpressure	Per Blast	16.08.2023	Max 115 - Trigger point >111	dB	**114.50**	**Not Required**	Not required	#109	

Yarrabee Rd Quarry - Licence Number 11462

M2.3 Note - Special Frequency 1 means sampling once during each discharge event arising from rainfall not exceeding the 90 percentile five day rainevent of 70 mm falling in total over a period of up to five days duration.

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 - Estimate**		
Month	**Number of Samples**	**Frequency**	<24hrs prior to discharge	<24hrs prior to discharge	Daily when wastes (water) discharged KiloLitres per day	Rainfall recorded - mm	Comments
4 - 7 Jul 2022					460	122	**Greater than 70MM of rain - not sampled**
3 - 6 Sep 2022					350	93	**Greater than 70MM of rain - not sampled**
06.06.2023	1		51	8.1	0	0	**Nil Discharge / Sample only**
Number of samples	**0**						
	Mean		**#REF!**	**#REF!**	**405.00**		
	Lowest		**#REF!**	**#REF!**	**350.00**		
	Highest		**#REF!**	**#REF!**	**460.00**		

EPL 11462 - Condition L2.2 The concentration limits in the below table do not apply to any discharge from sediment pond (at Point 3)

solely arising from rainfall exceeding 90th percentile (70 mm) 5 day rainevent in total falling over any consecutive five day period

Yarrabee Rd Quarry - Licence Number 11462

Blasting	**Frequency**	Date	Limits	Units of measure	Results	Blast #	Blast ID	
Ground Vibration	Per Blast	12/01/2023	16 - trigger point >0.30	mm/s	**0.70**	#108	YRQ-2301	12.04pm
Overpressure	Per Blast	12/01/2023	Max 115 - Trigger point >100dB	dBl	**110.0**	#108	YRQ-2301	
Ground Vibration	Per Blast	23/01/2023	17 - trigger point >0.30	mm/s	**1.49**	#109	YRQ-2302	12.29pm
Overpressure	Per Blast	23/01/2023	Max 115 - Trigger point >100dB	dBl	**103.6**	#109	YRQ-2302	
Ground Vibration	Per Blast	15/02/2023	17 - trigger point >0.30	mm/s	**Nil Trigger**	#110	YRQ-2303	1.56pm
Overpressure	Per Blast	15/02/2023	Max 115 - Trigger point >100dB	dBl	**Nil Trigger**	#110	YRQ-2303	
Ground Vibration	Per Blast	08/03/2023	18 - trigger point >0.30	mm/s	**Nil Trigger**	#111	YRQ-2304	11.06am
Overpressure	Per Blast	08/03/2023	Max 115 - Trigger point >100dB	dBl	**Nil Trigger**	#111	YRQ-2304	
Ground Vibration	Per Blast	10/03/2023	19 - trigger point >0.30	mm/s	**Nil Trigger**	#112	YRQ-2305	12.16pm
Overpressure	Per Blast	10/03/2023	Max 115 - Trigger point >100dB	dBl	**Nil Trigger**	#112	YRQ-2305	
Ground Vibration	Per Blast	09/05/2023	19 - trigger point >0.30	mm/s	**1.14**	#113	YRQ-2306	12.36pm
Overpressure	Per Blast	09/05/2023	Max 115 - Trigger point >100dB	dBl	**103.2**	#113	YRQ-2306	
Ground Vibration	Per Blast	26/06/2023	20 - trigger point >0.30	mm/s	**Nil Trigger**	#114	YRQ-2307	1.16pm
Overpressure	Per Blast	26/06/2023	Max 115 - Trigger point >100dB	dBl	**Nil Trigger**	#114	YRQ-2307	
Ground Vibration	Per Blast	09/08/2023	21 - trigger point >0.30	mm/s	**0.88**	#115	YRQ-2308	12.21pm
Overpressure	Per Blast	09/08/2023	Max 115 - Trigger point >100dB	dBl	**110.9**	#115	YRQ-2308	
Ground Vibration	Per Blast	05/10/2023	21 - trigger point >0.30	mm/s	**1.16**	#116	YRQ-2309	12.34pm
Overpressure	Per Blast	05/10/2023	Max 115 - Trigger point >100dB	dBl	**100.9**	#116	YRQ-2309	
Ground Vibration	Per Blast	01/11/2023	21 - trigger point >0.30	mm/s	**0.76**	#117	YRQ-2309	12.36pm
Overpressure	Per Blast	01/11/2023	Max 115 - Trigger point >100dB	dBl	**106.5**	#117	YRQ-2309	