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**
29/11/2024	1	6.2	223	3000	N/s	1444	N/s	<5	2000	85 mm of rain - 1 pm 28.11.2024 to 12 am 03.12.2024
30/11/2024	1	6.7	288	400	N/s	777	N/s	<5	2000	85 mm of rain - 1 pm 28.11.2024 to 12 am 03.12.2024
1/12/2024	1	7.2	275	1200	N/s	728	N/s	<5	2000	85 mm of rain - 1 pm 28.11.2024 to 12 am 03.12.2024
2/12/2024	1	8	350	200	N/s	80	N/s	<5	2000	85 mm of rain - 1 pm 28.11.2024 to 12 am 03.12.2024
Total		**6.2**	**223**	**3000**	**0**	**1444**	**0**	**0**		
	Mean	**6.20**	**223.00**	**3000.00**	**#DIV/0!**	**1444.00**	**#DIV/0!**	**#DIV/0!**		
	Lowest	**6.20**	**223.00**	**3000.00**	**0.00**	**1444.00**	**0.00**	**0.00**		
	Highest	**6.20**	**223.00**	**3000.00**	**0.00**	**1444.00**	**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**
19/07/2024	1	7.2	253	2.5	128	<5	2	<5		Nil Discharge -Monthly Sample
20/08/2024	1	6.9	242	2.5	157	<5	2	<5		Nil Discharge -Monthly Sample
18/09/2024	1	7.1	252	1.5	139	<5	<2	<2		Nil Discharge -Monthly Sample
19/10/2024	1	7.6	222	3	145	<5	2	<5		Nil Discharge -Monthly Sample
20/11/2024	1	7.9	213	12	146	<5	6	<5		Nil Discharge -Monthly Sample
29/11/2024	1	6.2	221	210	N/s	204	N/s	<5		85 mm of rain - 1 pm 28.11.2024 to 12 am 03.12.2024
30/11/2024	1	7.0	277	5.3	N/s	12	N/s	<5		85 mm of rain - 1 pm 28.11.2024 to 12 am 03.12.2024
1/12/2024	1	7.3	287	16	N/s	12	N/s	<5		85 mm of rain - 1 pm 28.11.2024 to 12 am 03.12.2024
2/12/2024	1	8.0	281	25	N/s	6	N/s	<5		85 mm of rain - 1 pm 28.11.2024 to 12 am 03.12.2024
Total		**65.2**	**2248**	**277.8**	**715**	**234**	**12**	**0**		
	Mean	**7.24**	**249.78**	**30.87**	**143.00**	**58.50**	**3.00**	**#DIV/0!**		
	Lowest	**6.20**	**213.00**	**1.50**	**128.00**	**6.00**	**2.00**	**0.00**		
	Highest	**8.00**	**287.00**	**210.00**	**157.00**	**204.00**	**6.00**	**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**
19/07/2024	1	7.5	252	2.3	132	<5	<2	<5		Nil Discharge -Monthly Sample
20/08/2024	1	7.2	243	2.3	157	<5	2	<5		Nil Discharge -Monthly Sample
18/09/2024	1	7.4	260	1.3	141	<5	<2	<5		Nil Discharge -Monthly Sample
19/10/2024	1	7.7	228	2.2	136	<5	3	<5		Nil Discharge -Monthly Sample
20/11/2024	1	7.9	228	7	146	5	5	<5		Nil Discharge -Monthly Sample
29/11/2024	1	6.4	220	290	N/s	240	N/s	<5		85 mm of rain - 1 pm 28.11.2024 to 12 am 03.12.2024
30/11/2024	1	7.2	227	8.5	N/s	47	N/s	<5		85 mm of rain - 1 pm 28.11.2024 to 12 am 03.12.2024
1/12/2024	1	7.3	269	12	N/s	17	N/s	<5		85 mm of rain - 1 pm 28.11.2024 to 12 am 03.12.2024
2/12/2024	1	7.8	281	8.7	N/s	6	N/s	<5		85 mm of rain - 1 pm 28.11.2024 to 12 am 03.12.2024
Total		**66.4**	**242.20**	**3.02**	**142.40**	**5.00**	**3.33**	**0**		
	Mean	**7.54**		**3.02**	**142.40**	**5.00**	**3.33**	**#DIV/0!**		**0.00**
	Lowest	**7.20**	**228.00**	**1.30**	**132.00**	**5.00**	**2.00**	**0.00**		**0.00**
	Highest	**7.90**	**260.00**	**7.00**	**157.00**	**5.00**	**5.00**	**0.00**		

Dust Monitoring EPL Point 4

Period	**Month**	**Number of Samples**	**Sawmill**	**Insoluble Solids**	**Combustible Matter**	**Ash**
20/6/2024- 19/07/2024	Jul-2024	1		0.5	0.3	0.2
19/07/2024- 20/08/2024	Aug-2024	1		0.3	0.1	0.2
20/08/2024-18/09/2024	Sep-2024	1		0.5	0.2	0.3
18/09/2024- 19/10/2024	Oct-2024	1		0.1	<0.1	0.1
19/10/2024-19/11/2024	Nov-2024	1		0.5	0.2	0.3
				1.92	**0.8**	**1.1**
			Mean	**0.38**	**0.20**	**0.22**
			Lowest	**0.1**	**0.1**	**0.1**
			Highest	**0.5**	**0.3**	**0.3**

Dust Monitoring EPL Point 5

Month	**Month**	**Number of**	**Baners Lane**	**Insoluble Solids**	**Combustible Matter**	**Ash**
20/6/2024-19/07/2024	Jul-2024	1		0.3	0.2	0.1
19/07/2024- 20/08/2024	Aug-2024	1		0.3	0.2	0.1
20/08/2024-18/09/2024	Sep-2024	1		0.6	0.3	0.3
18/09/2024- 19/10/2024	Oct-2024	1		0.1	<0.1	0.1
19/10/2024-19/11/2024	Nov-2024	1		0.4	0.2	0.2
				1.71	**0.9**	**0.8**
			Mean	**0.34**	**0.23**	**0.16**
			Lowest	**0.1**	**0.2**	**0.1**
			Highest	**0.6**	**0.3**	**0.3**

Dust Monitoring EPL Point 6

Month	**Month**	**Number of**	**Bald Hill**	**Insoluble Solids**	**Combustible Matter**	**Ash**
20/6/2024-19/07/2024	Jul-2024	1		2.7	1.5	1.2
19/07/2024- 20/08/2024	Aug-2024	1		0.6	0.2	0.4
20/08/2024-18/09/2024	Sep-2024	1		0.2	0.1	0.1
18/09/2024- 19/10/2024	Oct-2024	1		0.2	<0.1	0.2
19/10/2024-19/11/2024	Nov-2024	1		0.1	<0.1	0.1
				3.83	**1.8**	**2**
			Mean	**0.77**	**0.60**	**0.40**
			Lowest	**0.1**	**0.1**	**0.1**
			Highest	**2.7**	**1.5**	**1.2**

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**
										Nil Discharge - NO Sample
										Nil Discharge - NO Sample
										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**

Volume Discharged - KL - Estimated	**Comment**

Month	Number of Samples	pH	Electrical Conductivity	Turbidity	Total Dissolved Solids	Total Suspend Solids	Oxygen demand	Oil/Grease		
29/11/2024	1	8.5	1042	40	N/s	29	n/s	<5	1000	85 mm of rain - 1 pm 28.11.2024 to 12 am 03.12.2024
30/11/2024	1	8.4	992	15	n/s	22	N/s	<5	1000	85 mm of rain - 1 pm 28.11.2024 to 12 am 03.12.2024
1/12/2024	1	8.5	1024	24	N/s	25	n/s	<5	1000	85 mm of rain - 1 pm 28.11.2024 to 12 am 03.12.2024
2/12/2024	1	9.1	933	25	N/s	36	n/s	<5	500	85 mm of rain - 1 pm 28.11.2024 to 12 am 03.12.2024
		34.5	3991	104	0	112	0	0		
	Mean	8.63	997.75	26.00	#DIV/0!	28.00	#DIV/0!	#DIV/0!		
	Lowest	8.40	933.00	15.00	0.00	22.00	0.00	0.00		
	Highest	9.10	1042.00	40.00	0.00	36.00	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
31/07/2024	0									Nil Discharge - NO Sample
31/08/2024	0									Nil Discharge - NO Sample
30/09/2024	0									Nil Discharge - NO Sample
31/10/2024	0									Nil Discharge - NO Sample
30/11/2024	0									
31/12/2024	0									
31/01/2025	0									
29/02/2025	0									
31/03/2025	0									
30/04/2025	0									
31/05/2025	0									
30/06/2025	0									
		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 - KL -	Comment
31/07/2024	0									Nil Discharge - NO Sample
31/08/2024	0									Nil Discharge - NO Sample
30/09/2024	0									Nil Discharge - NO Sample
31/10/2024	0									Nil Discharge - NO Sample
30/11/2024	0									
31/12/2024	0									
31/01/2025	0									
29/02/2025	0									
31/03/2025	0									
30/04/2025	0									
31/05/2025	0									
30/06/2025	0									
		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	10/07/2024	267	5mm/s - trigger point >0.52	dB	Nil Trigger	Nil Trigger	Not required	1.15 pm
Overpressure	Per Blast	10/07/2024	267	115db - Trigger point <100	dB	Nil Trigger	Nil Trigger	Not required	1.15 pm
Ground Vibration	Per Blast	23/07/2024	268	5mm/s - trigger point >0.52	dB	Nil Trigger	Nil Trigger	Not required	12.55 pm
Overpressure	Per Blast	23/07/2024	268	115db - Trigger point <100	dB	Nil Trigger	Nil Trigger	Not required	12.55 pm
Ground Vibration	Per Blast	7/08/2024	270	5mm/s - trigger point >0.52	dB	Nil Trigger	Nil Trigger	Not required	2.31 pm
Overpressure	Per Blast	7/08/2024	270	115db - Trigger point <100	dB	Nil Trigger	Nil Trigger	Not required	2.31 pm
Ground Vibration	Per Blast	14/08/2024	269	5mm/s - trigger point >0.52	dB	Nil Trigger	Nil Trigger	Not required	12:41 PM
Overpressure	Per Blast	14/08/2024	269	115db - Trigger point <100	dB	Nil Trigger	Nil Trigger	Not required	12.41 pm
Ground Vibration	Per Blast	28/08/2024	271	5mm/s - trigger point >0.53	dB	Nil Trigger	Nil Trigger	Not required	1:00 PM
Overpressure	Per Blast	28/08/2024	271	115db - Trigger point <101	dB	Nil Trigger	Nil Trigger	Not required	1:00 PM
Ground Vibration	Per Blast	5/09/2024	272	5mm/s - trigger point >0.54	dB	Nil Trigger	Nil Trigger	Not required	12:12 PM
Overpressure	Per Blast	5/09/2024	272	115db - Trigger point <102	dB	Nil Trigger	Nil Trigger	Not required	12:12 PM
Ground Vibration	Per Blast	27/09/2024	274	5mm/s - trigger point >0.54	dB	Nil Trigger	Nil Trigger	Not required	12:01 PM
Overpressure	Per Blast	27/09/2024	274	115db - Trigger point <102	dB	Nil Trigger	Nil Trigger	Not required	12:01 PM
Ground Vibration	Per Blast	3/10/2024	273	5mm/s - trigger point >0.54	dB	Nil Trigger	0.05 mm/s	Not required	2:15 PM
Overpressure	Per Blast	3/10/2024	273	115db - Trigger point <102	dB	Nil Trigger	104.9dB	Not required	2:15 PM
Ground Vibration	Per Blast	9/10/2024	275	5mm/s - trigger point >0.54	dB	Nil Trigger	Nil Trigger	Not required	12:35 PM
Overpressure	Per Blast	9/10/2024	275	115db - Trigger point <102	dB	Nil Trigger	Nil Trigger	Not required	12:35 PM
Ground Vibration	Per Blast	5/11/2024	276	5mm/s - trigger point >0.54	dB	Nil Trigger	0.06 mm/s	Not required	1:40 PM
Overpressure	Per Blast	5/11/2024	276	115db - Trigger point <102	dB	Nil Trigger	104.9 dB	Not required	1:40 PM
Ground Vibration	Per Blast	13/11/2024	277	5mm/s - trigger point >0.54	dB	Nil Trigger	Nil Trigger	Not required	1:10 PM
Overpressure	Per Blast	13/11/2024	277	115db - Trigger point <102	dB	Nil Trigger	Nil Trigger	Not required	1:10 PM
Ground Vibration	Per Blast	20/11/2024	278	5mm/s - trigger point >0.54	dB	Nil Trigger	Nil Trigger	Not required	1:06 PM
Overpressure	Per Blast	20/11/2024	278	115db - Trigger point <102	dB	Nil Trigger	Nil Trigger	Not required	1:06 PM

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										
28/08/2024	1	1.07	0.0002	0.0004	0.0019	0.378	0.001	<0.00001	0.0251	0.045	Hy-Tec Qtrly Sample
											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	COMMENTS
Date	No. of samples										
24/10/2024	1	0.39	0.0002	0.0004	0.0019	0.378	0.001	<0.0001	0.0251	0.045	ERM Qtrly sample

	Pollutant	pH	µS/cm
Wetland site	Units of Measure	mg/l	mg/l

	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	uS/cm	NTU	mg/l	Visible	Hours	KL	
2/07/2024	1	5.6	363	4.8	12	<5	24	6825.6	
9/07/2024	1	6.2	334	7.3	15	<5	24	6825.6	
15/07/2024	1	6.0	339	5.6	13	<5	24	6825.6	
30/07/2024	1	6.4	351	3.8	13	<5	24	6825.6	
15/08/2024	1	5.6	381	9.0	11	<5	24	6825.6	
28/08/2024	1	6.4	365	4.3	11	<5	24	6825.6	
24/09/2024	1	6.6	367	3.6	11	<5	24	6825.6	
25/09/2024	1	6.3	366	3.9	12	<5	24	6825.6	
30/10/2024	1	6.2	374	2.8	5	<5	24	6825.6	
	1	6.4							ERM Qtrly sample - nil discharge
	Mean	6.17	360.00	5.01	11.44	#DIV/0!			
	Lowest	5.60	334.00	2.80	5.00	0.00			
	Highest	6.60	381.00	9.00	15.00	0.00			

61,430.4

Grant's Head Points 2 & 3		Standing Water Level Meters (mAHD)		Standing Water Level Metres (mAHD)
	Position ID	Quarterly	Position ID	Quarterly
24/10/2024	MW05	4.759	MW06	4.679
	MW05		MW06	
	MW05		MW06	
	MW05		MW06	
	MW05		MW06	
	MW05		MW06	
	MW05		MW06	
	MW05		MW06	
	MW05		MW06	
	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
24/10/2024	NW01D	470	5.59	-1.795	<0.05	<0.001	<0.0002	<0.001	<0.001	<0.001	<0.0001	0.006	<0.005
	NW01D												
	NW01D												
	NW01D												
	NW01D												
	NW01D												
24/10/2024	NW01S	360	4.82	-0.835	0.39	<0.001	<0.0002	<0.001	0.003	<0.001	<0.0001	0.002	0.01
	NW01S												
	NW01S												
	NW01S												
	NW01S												
	NW01S												

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
24/10/2024	NW02D	401	4.65	1.005	<0.005	0.003	<0.0002	<0.001	<0.001	<0.001	<0.0001	0.004	<0.005
	NW02D												
	NW02D												
	NW02D												
	NW02D												
	NW02D												
24/10/2024	NW02S	290	4.27	-6.07	0.32	<0.001	<0.0002	<0.001	0.002	<0.001	<0.0001	0.002	<0.005
	NW02S												
	NW02S												
	NW02S												
	NW02S												
	NW02S												

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
24/10/2024	NW03D-A	476	6.05	-11.835	<0.05	<0.001	<0.0002	<0.001	<0.001	<0.001	<0.0001	0.002	0.031
	NW03D-A												
	NW03D-A												
	NW03D-A												
	NW03D-A												
	NW03D-A												
24/10/2024	NW03S-A	581	4.79	-11.525	0.12	0.004	<0.0002	<0.001	<0.001	<0.001	<0.0001	0.002	0.006
	NW03S-A												
	NW03S-A												
	NW03S-A												
	NW03S-A												
	NW03S-A												

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	6/06/2022	5 - trigger point >0.27	5 - trigger point >0.10	2.16	0.13	#134	
Overpressure	Per Blast	6/06/2022	115 - Trigger point >100	115 - Trigger point >100	105.9	101.9	#134	
Ground Vibration	Per Blast	20/09/2022	5 - trigger point >0.27	5 - 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	5 - trigger point >0.27	5 - 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	1/05/2023	5 - trigger point >0.27	5 - trigger point >0.10	2.17	0.13	#137	12.55pm
Overpressure	Per Blast	1/05/2023	115 - Trigger point >100	115 - Trigger point >100	111.7	103.5	#137	
Ground Vibration	Per Blast	29/08/2023	5 - trigger point >0.27	5 - 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	5 - trigger point >0.27	5 - trigger point >0.10	0.57	No Trigger	#139	1.34pm
Overpressure	Per Blast	12/10/2023	115 - Trigger point >100	115 - Trigger point >95	96.8	No Trigger	#139	
Ground Vibration	Per Blast	7/02/2024	5 - trigger point >0.27	5 - trigger point >0.10	0.64	No Trigger	#140	1.13pm
Overpressure	Per Blast	7/02/2024	115 - Trigger point >100	115 - Trigger point >95	100.1	No Trigger	#140	
Ground Vibration	Per Blast	12/06/2024	5 - trigger point >0.27	5 - trigger point >0.10	0.84	No Trigger	#141	11.46 am
Overpressure	Per Blast	12/06/2024	115 - Trigger point >100	115 - Trigger point >95	106.2	No Trigger	#141	
Ground Vibration	Per Blast	29/08/2024	5 - trigger point >0.27	5 - trigger point >0.10	0.94	0.25	#142	11:44 AM
Overpressure	Per Blast	29/08/2024	115 - Trigger point >100	115 - Trigger point >95	105.2	105.5	#142	
Ground Vibration	Per Blast	17/12/2024	5 - trigger point >0.27	5 - trigger point >0.10	No trigger	0.2	#143	11:45 AM
Overpressure	Per Blast	17/12/2024	115 - Trigger point >100	115 - Trigger point >95	No trigger	111.8	#143	

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-2024	0						Nil Controlled Discharge
Aug-2024	0						Nil Controlled Discharge
Sep-2024	0						Nil Controlled Discharge
Oct-2024	0						Nil Controlled Discharge
Nov-2024	0						Nil Controlled Discharge
Dec-2024	0						Nil Controlled Discharge
Jan-2025	0						Nil Controlled Discharge
Feb-2025	0						Nil Controlled Discharge
Mar-2025	0						Nil Controlled Discharge
Apr-2025	0						Nil Controlled Discharge
May-2025	0						Nil Controlled Discharge
Jun-2025	0						Nil Controlled 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-2024	0						Nil Controlled Discharge
Aug-2024	0						Nil Controlled Discharge
Sep-2024	0						Nil Controlled Discharge
Oct-2024	0						Nil Controlled Discharge
Nov-2024	0						Nil Controlled Discharge
Dec-2024	0						Nil Controlled Discharge
Jan-2025	0						Nil Controlled Discharge
Feb-2025	0						Nil Controlled Discharge
Mar-2025	0						Nil Controlled Discharge
Apr-2025	0						Nil Controlled Discharge
May-2025	0						Nil Controlled Discharge

Jun-2025	0						Nil Controlled 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 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 - 42 Pollard Rd	Blast #	
Ground Vibration	Per Blast	02.03.2023	5 - 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	5 - 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	5 - 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	5 - 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	5 - 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	5 - 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	5 - 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 >110	dB	114.50	Not Required	Not required	#109	
Ground Vibration	Per Blast	13/10/2023	5 - trigger point >0.25	mm/s	0.82	Not Required	Not required	#110	1.49pm
Overpressure	Per Blast	13/10/2023	Max 115 - Trigger point >110	dB	111.60	Not Required	Not required	#110	
Ground Vibration	Per Blast	13/10/2023	5 - trigger point >0.25	mm/s	0.82	Not Required	Not required	#111	1.49pm
Overpressure	Per Blast	13/10/2023	Max 115 - Trigger point >110	dB	111.60	Not Required	Not required	#111	
Ground Vibration	Per Blast	2/02/2024	5 - trigger point >0.25	mm/s	1.64	Not Required	Not required	#112	2.37pm
Overpressure	Per Blast	2/02/2024	Max 115 - Trigger point >110	dB	109.10	Not Required	Not required	#112	
Ground Vibration	Per Blast	2/02/2024	5 - trigger point >0.25	mm/s	1.64	Not Required	Not required	#113	2.37pm
Overpressure	Per Blast	2/02/2024	Max 115 - Trigger point >110	dB	109.10	Not Required	Not required	#113	
Ground Vibration	Per Blast	2/04/2024	5 - trigger point >0.25	mm/s	1.40	Not Required	1.65	#114	1.34pm
Overpressure	Per Blast	2/04/2024	Max 115 - Trigger point >110	dB	114.60	Not Required	114.3	#114	
Ground Vibration	Per Blast	5/08/2024	5 - trigger point >0.25	mm/s	Nil Trigger	Not Required	0.59	#116	11.37 pm
Overpressure	Per Blast	5/08/2024	Max 115 - Trigger point >110	dB	Nil Trigger	Not Required	110.2	#116	

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
02.02.2024	1		4	7.8	0	0	Nil Discharge / Sample only
29.04.2024	1		14	8	0	0	Nil Discharge / Sample only
13.05.2024	1		7	7.5	0	0	Nil Discharge / Sample only
27.06.2024	1		6	7.9	0	0	Nil Discharge / Sample only
2.09.2024	1		<5	8.3	720		
Number of samples	5						
	Mean		7.75	7.80	0.00		
	Lowest		4.00	7.50	0.00		
	Highest		14.00	8.00	0.00		

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	5/10/2023	5 mm/s - trigger point >0.30	mm/s	1.16	#116	YRQ-2309	12.34pm
Overpressure	Per Blast	5/10/2023	Max 115 dB - Trigger point >100dB	dBl	100.9	#116	YRQ-2309	
Ground Vibration	Per Blast	1/11/2023	5 mm/s - trigger point >0.30	mm/s	0.76	#117	YRQ-2310	12.36pm
Overpressure	Per Blast	1/11/2023	Max 115 dB - Trigger point >100dB	dBl	106.5	#117	YRQ-2310	
Ground Vibration	Per Blast	29/11/2023	5 mm/s - trigger point >0.30	mm/s	1.19	#118	YRQ-2311	1.02pm
Overpressure	Per Blast	29/11/2023	Max 115 dB - Trigger point >100dB	dBl	113.5	#118	YRQ-2311	
Ground Vibration	Per Blast	19/12/2023	5 mm/s - trigger point >0.30	mm/s	0.80	#119	YRQ-2312	12.06pm
Overpressure	Per Blast	19/12/2023	Max 115 dB - Trigger point >100dB	dBl	110.5	#119	YRQ-2312	
Ground Vibration	Per Blast	12/03/2024	5 mm/s - trigger point >0.30	mm/s	0.54	#120	YRQ-2401	12.30pm
Overpressure	Per Blast	12/03/2024	Max 115 dB - Trigger point >100dB	dBl	112.8	#120	YRQ-2401	
Ground Vibration	Per Blast	23/04/2024	5 mm/s - trigger point >0.30	mm/s	0.67	#121	YRQ-2402	1.37pm
Overpressure	Per Blast	23/04/2024	Max 115 dB - Trigger point >100dB	dBl	110.8	#121	YRQ-2402	
Ground Vibration	Per Blast	25/06/2024	5 mm/s - trigger point >0.30	mm/s	0.74	#122	YRQ-2403	12:33pm