



# ENVIRONMENTAL MONITORING DATA

## 2017

<b>EPL</b>	<b>3393</b>
<b>Licensee Name</b>	<b>Pacific Blue Metal Pty Ltd</b>
<b>Facility Address</b>	<b>113 Possum Brush Road POSSUM BRUSH NSW 2430</b>

<b>BLAST</b>		
Monitored when blasting at R1 and R2		
Parameter	Limit R1	Limit R2
Airblast Overpressure	120dB at any time & 115dB for no more than 5% of blasts	
Peak Particle Velocity	10mm/s at any time & 5mm/s for no more than 5% of blasts	

Month	Date Sampled	Date Obtained	Date Published	R1	R2	Comments
January						No blast
February						No blast
March	15/03/17	29/03/17	28/09/17	100.4dB 1.55mm/s	No trigger	Website became live on 28/09/17.
April	06/04/17	20/04/17	28/09/17	101.1dB 2.24mm/s	106.5dB 0.42mm/s	Website became live on 28/09/17.
May	31/05/17	14/05/17	28/09/17	101.8dB 1.42mm/s	107.0dB 0.39mm/s	Website became live on 28/09/17.
June						No blast
July	25/07/17	08/07/17	28/09/17	105.1dB 0.88mm/s	108.3dB 0.45mm/s	Website became live on 28/09/17.
August						No blast
September	22/09/17	25/09/17	28/09/17	98.3dB 4.29mm/s	No trigger	
October						No blast
November	10/11/17	03/12/17	02/01/18	102.6dB 3.51mm/s	105.4dB 0.37mm/s	
December						No blast

Resident Locations	R1 – Due S of Quarry R2 – NNE of Quarry R3 – ENE of Quarry R4 – Due E of Quarry
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<b>DUST</b> Monitored Monthly at R1 and R2		
<b>Parameter</b>	<b>Limit R1 mg/m<sup>2</sup>/month</b>	<b>Limit R2 mg/m<sup>2</sup>/month</b>
Deposited dust	4	4

<b>Month</b>	<b>Date Sampled</b>	<b>Date Obtained</b>	<b>Date Published</b>	<b>R1 mg/m<sup>2</sup>/month</b>	<b>R2 mg/m<sup>2</sup>/month</b>	<b>Comments</b>
July	01/08/17	08/08/17	28/09/17	0.4	0.4	Website became live on 28/09/17.
August	31/08/17	11/9/17	28/09/17	0.8	1.2	Website became live on 28/09/17.
September	03/09/17	06/10/17	28/09/17	1.1	1.3	Website became live on 28/09/17.
October						Dust Monitors destroyed in hail storm 26/10/17.
November	04/12/17	20/12/17	02/01/18	0.5	1.1	
December	02/01/17	12/1/17	22/1/17	0.6	1.8	

\*Dust sampling commenced July 2017

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<b>WATER</b>		Monitored on overflow at Dam 3
Parameter	Limit	
pH	6.5 – 8.5	
Total Suspended Solids (mg/L)	50	
Oil and Grease	Non visible	

Month	Date Sampled	Date Obtained	Date Published	pH	TSS	Oil & Grease	
January							No overflow occurred at Dam 3
February							No overflow occurred at Dam 3
March	15/03/17	22/03/17	28/09/17	7.1	19	0	Website became live on 28/09/17.
April							No overflow occurred at Dam 3
May							No overflow occurred at Dam 3
June							No overflow occurred at Dam 3
July							No overflow occurred at Dam 3
August							No overflow occurred at Dam 3
September							No overflow occurred at Dam 3
October							No overflow occurred at Dam 3
November							No overflow occurred at Dam 3
December							No overflow occurred at Dam 3

Resident Locations	R1 – Due S of Quarry R2 – NNE of Quarry R3 – ENE of Quarry R4 – Due E of Quarry
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<b>NOISE</b>		Monitored Quarterly at R1, R2 and R3		
Parameter		Limit R1	Limit R2	Limit R3
Day	LA <sub>eq(15min)</sub> (dBA)	39	38	37
Evening	LA <sub>eq(15min)</sub> (dBA)	39	38	37
Night	LA <sub>eq(15min)</sub> (dBA)	39	38	37
Night	LA <sub>max</sub> (dBA)	45	45	45

The above noise criteria apply under all meteorological conditions except the following:

- Wind speeds greater than 3 metres/second at 10 meters above ground level; or
- Stability category F temperature inversion conditions and wind speeds greater than 2 metres/second at 10 meters above ground level; or
- Stability category G temperature inversion conditions.

Sampling Period	Date Sampled	Date Obtained	Date Published	Parameter	R1	R2	R3	Comments
3 <sup>rd</sup> Quarter (Jul-Sept)	17/07/17	31/07/17	28/09/17	Day LA <sub>eq(15min)</sub> (dBA)	<20	<20	inaudible	Website became live on 28/09/17.
	17/07/17	31/07/17	28/09/17	Evening LA <sub>eq(15min)</sub> (dBA)	inaudible	<20	inaudible	
	17/07/17	31/07/17	28/09/17	Night LA <sub>eq(15min)</sub> (dBA)	inaudible	<20	inaudible	
	17/07/17	31/07/17	28/09/17	Night LA <sub>max</sub> (dBA)	<45	<45	<45	
4 <sup>th</sup> Quarter (Oct-Dec)	25/09/17	05/10/17	02/01/18	Day LA <sub>eq(15min)</sub> (dBA)	23	<20	inaudible	Permission granted by DPE on 19 Sept 2017 to undertake Q4 noise monitoring in last week of Q3 to capture night time operations.
	25/09/17	05/10/17	02/01/18	Evening LA <sub>eq(15min)</sub> (dBA)	27	28	inaudible	
	25/09/17	05/10/17	02/01/18	Night LA <sub>eq(15min)</sub> (dBA)	29	28	inaudible	
	25/09/17	05/10/17	02/01/18	Night LA <sub>max</sub> (dBA)	42	33	<25	

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<b>NOISE</b>		<b>Monitored Biennially at R4</b> To determine the noise level of Quarry trucks travelling along Possum Brush Road during night time operations.
<b>Parameter</b>	<b>Limit R4</b>	
Night LA <sub>eq(1hour)</sub> (dBA)	50	

Sampling Period	Date Sampled	Date Obtained	Date Published	R4 Night LA <sub>eq(1hour)</sub> (dBA)	Comments
Biennial 2016-2017	18/07/17	31/07/17	28/09/17	43	Website became live on 28/09/17

Resident Locations	R1 – Due S of Quarry R2 – NNE of Quarry R3 – ENE of Quarry R4 – Due E of Quarry
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