



ENVIRONMENTAL MONITORING DATA

2018

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

BLAST		
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	24/01/18	13/03/18	23/04/18	102.5dB 3.30mm/s	101.7dB 0.32mm/s	-
February	-	-	-	-	-	No blast
March	-	-	-	-	-	No blast
April	06/04/18	09/04/18	23/04/18	100.3dB 1.63mm/s	No trigger No trigger	-
May	-	-	-	-	-	No blast
June	08/06/18	04/09/18	07/09/18	104.2dB 3.32mm/s	No trigger No trigger	-
July	-	-	-	-	-	No blast
August	-	-	-	-	-	No blast
September	-	-	-	-	-	No blast
October	24/10/18	10/12/18	12/12/18	100.4dB 1.34mm/s	113.4dB 0.27mm/s	-
November	-	-	-	-	-	No blast
December	12/12/18	14/12/18	18/01/19	100.3dB 0.95mm/s	Nil trigger Nil trigger	-

Resident Locations	R1 – Due S of Quarry R2 – NNE of Quarry R3 – ENE of Quarry R4 – Due E of Quarry
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DUST Monitored Monthly at R1 and R2		
Parameter	Limit R1 g/m²/month	Limit R2 g/m²/month
Deposited dust	4	4

Month	Date Sampled	Date Obtained	Date Published	R1 mg/m²/month	R2 mg/m²/month	Comments
January	02/02/18	13/02/18	23/04/18	0.6	1.4	-
February	02/03/18	14/03/18	23/04/18	0.3	1.2	-
March	03/04/18	18/04/18	23/04/18	0.1	0.6	-
April	04/05/18	18/05/18	07/09/18	0.4	0.8	-
May	01/06/18	15/06/18	07/09/18	0.4	0.7	-
June	02/07/18	13/07/18	07/09/18	0.2	0.3	-
July	02/08/18	14/08/18	07/09/18	0.1	0.4	-
August	03/09/18	13/09/18	12/12/18	0.4	0.6	-
September	3/10/18	12/11/18	12/12/18	0.7	0.7	-
October	2/11/18	12/11/18	12/12/18	0.4	0.8	-
November	n/a	n/a	n/a	n/a	n/a	Monitoring not undertaken
December	02/01/19	14/01/19	18/01/19	1.5	1.3	R1 – high combustible materials – organic matter R2 – high ash content – soil dust.

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WATER

Monitored on overflow at Dam 3

Parameter	Limit
pH	6.5 – 8.5
Total Suspended Solids (mg/L)	50
Oil and Grease	None 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	22/03/18	28/03/18	23/04/18	7.3	6.0	None Visible	First dam overflow since 15/03/17
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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NOISE		Monitored Quarterly at R1, R2 and R3		
Parameter		Limit R1	Limit R2	Limit R3
Day	LA _{eq(15min)} (dBA)	39	38	37
Evening	LA _{eq(15min)} (dBA)	39	38	37
Night	LA _{eq(15min)} (dBA)	39	38	37
Night	LA _{max} (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
1st Quarter (Jan-Mar)	28/03/18	14/04/18	23/04/18	Day LA _{eq(15min)} (dBA)	28	<25	<20	-
	28/03/18	14/04/18	23/04/18	Evening LA _{eq(15min)} (dBA)	inaudible	inaudible	inaudible	-
	29/03/18	14/04/18	23/04/18	Night LA _{eq(15min)} (dBA)	inaudible	<25	25	-
	29/03/18	14/04/18	23/04/18	Night LA _{max} (dBA)	inaudible	30	28	-
2nd Quarter (Apr-Jun)	28/06/18	19/07/18	07/09/18	Day LA _{eq(15min)} (dBA)	29	<20	<25	-
	28/06/18	19/07/18	07/09/18	Evening LA _{eq(15min)} (dBA)	inaudible	31	inaudible	-
	29/06/18	19/07/18	07/09/18	Night LA _{eq(15min)} (dBA)	inaudible	<25	inaudible	-
	29/06/18	19/07/18	07/09/18	Night LA _{max} (dBA)	Inaudible	<30	<30	-

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Sampling Period	Date Sampled	Date Obtained	Date Published	Parameter		R1	R2	R3	Comments
3rd Quarter (Jul-Sep)	15/08/18	24/08/18	07/09/18	Day	LA _{eq(15min)} (dBA)	32	<20	<20	Evening operations only occurred from 9:35pm-10:00pm on 15 th August. Therefore, only one site was able to be monitored. As per Condition L4.3 of PBM's Environment Protection Licence, the noise criteria do not apply when wind speeds are greater than 3m/s at 10m above ground level. Such wind speeds occurred at R1 & R3 at night and at R3 in the day.
	15/08/18	24/08/18	07/09/18	Evening	LA _{eq(15min)} (dBA)	38	n/a	n/a	
	15/08/18	24/08/18	07/09/18	Night	LA _{eq(15min)} (dBA)	38	<20	33	
	15/08/18	24/08/18	07/09/18	Night	LA _{max} (dBA)	45	37	0	
4th Quarter (Oct-Dec)	10/12/18	15/01/19	14/03/19	Day	LA _{eq(15min)} (dBA)	<20	<20	<20	-
	10/12/18	15/01/19	14/03/19	Evening	LA _{eq(15min)} (dBA)	28	<20	<20	-
	10/12/18	15/01/19	14/03/19	Night	LA _{eq(15min)} (dBA)	<20	<20	<20	-
	10/12/18	15/01/19	14/03/19	Night	LA _{max} (dBA)	<20	<20	<20	-

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

Sampling Period	Date Sampled	Date Obtained	Date Published	R4 Night LA _{eq(1hour)} (dBA)	Comments
Biennial 2016-2017	18/07/17	31/07/17	28/09/17	43	Monitoring required mid 2019.

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