



WESTERN
AUSTRALIAN
GOVERNMENT

Gazette

ISSN 1448-949X

PRINT POST APPROVED PP665002/00041

2795



PERTH, TUESDAY, 14 JULY 2009 No. 132

SPECIAL

PUBLISHED BY AUTHORITY JOHN A. STRIJK, GOVERNMENT PRINTER AT 3.00 PM

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ENVIRONMENTAL PROTECTION ACT 1986

**ENVIRONMENTAL
PROTECTION (FIMISTON GOLD
MINE NOISE EMISSIONS)
APPROVAL 2009**

Western Australia

Environmental Protection (Fimiston Gold Mine Noise Emissions) Approval 2009

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Environmental Protection Act 1986

Environmental Protection (Fimiston Gold Mine Noise Emissions) Approval 2009

Approval of the Minister under the *Environmental Protection (Noise) Regulations 1997* regulation 17(7).

1. Citation

This approval is the *Environmental Protection (Fimiston Gold Mine Noise Emissions) Approval 2009*.

2. Terms used

In this approval —

Barton Street Williamstown means any place at or adjacent to the intersection of Barton Street and Baden Street, Williamstown;

Boulder Primary School means any place within the boundary of the premises known as Boulder Primary School, Brookman Street, Boulder;

day means any time in the period —

- (a) between the hours of 0700 and 1900 on Monday to Saturday, excluding public holidays; and
- (b) between the hours of 0900 and 1900 on Sunday and public holidays;

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Director means the Director of Environmental Regulation Division, Department of Environment and Conservation;

evening means any time in the period between the hours of 1900 and 2200;

Fimiston Gold Mine means the land the subject of the mining tenements listed in Schedule 1 items 1 to 5;

Golden Pike Cutback means the land the subject of the mining tenements listed in Schedule 1 item 3;

Kalgoorlie Technical School means any place within the boundary of the premises known as Kalgoorlie Technical School, corner Davidson Street and Wilson Street, Kalgoorlie;

KCGM means Kalgoorlie Consolidated Gold Mines Pty Ltd ACN 009 377 619;

L_{A10} approved level means an approved level which, measured as a L_{A Slow} value, is not to be exceeded for more than 10% of the representative assessment period;

L_{A max} approved level means an approved level which, measured as a L_{A Slow} value, is not to be exceeded at any time;

L_{A Slow} has the meaning given in regulation 2(1);

location means a location referred to in the Table to clause 3(1) column 1;

mining operations has the meaning given in the *Mining Act 1978* section 8;

night means any time that is not day or evening;

Outram Street Boulder means any place at or adjacent to the intersection of Outram Street and Shannon Street, Boulder;

regulation means a regulation of the *Environmental Protection (Noise) Regulations 1997*;

representative assessment period has the meaning given in regulation 2(1);

start day means the day on which notice of this approval is published in the *Gazette*;

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York Street Boulder means any place on York Street, between Lane Street and Hamilton Street, Boulder.

3. Approval for noise emissions to vary from prescribed standard

- (1) Approval is granted to KCGM to allow the level of noise emitted from the Fimiston Gold Mine to exceed the standard prescribed under regulation 7(1)(a) if the level of noise emitted from the Fimiston Gold Mine when received at a location set out in column 1 of the Table at the time set out in column 2 of the Table does not exceed the $L_{A\ 10}$ approved level set out in column 3 or the $L_{A\ max}$ approved level set out in column 4 of the Table in relation to the location and the time.

Table

Location	Time of day	$L_{A\ 10}$ Approved level (dB)	$L_{A\ max}$ Approved level (dB)
Barton Street Williamstown	Day	50 + WIF	65 + WIF
	Evening	45 + WIF	55 + WIF
	Night	45 + WIF	55 + WIF
Boulder Primary School	Day	50 + WIF	62 + WIF
	Evening	45 + WIF	52 + WIF
	Night	45 + WIF	52 + WIF
Kalgoorlie Technical School	Day	50 + WIF	62 + WIF
	Evening	45 + WIF	52 + WIF
	Night	45 + WIF	52 + WIF
Outram Street Boulder	Day	52 + WIF	65 + WIF
	Evening	49 + WIF	60 + WIF
	Night	49 + WIF	60 + WIF

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Location	Time of day	L_{A 10} Approved level (dB)	L_{A max} Approved level (dB)
York Street Boulder	Day	52 + WIF	65 + WIF
	Evening	49 + WIF	60 + WIF
	Night	49 + WIF	60 + WIF

- (2) For the purpose of calculating the L_{A 10} approved level or the L_{A max} approved level the WIF to be added to a figure in column 3 or 4 is the weather influencing factor set out in Schedule 2 for the weather conditions, as measured under the noise and vibration management plan submitted or revised under clause 8, prevailing at the time the noise is received.
- (3) For the purpose of assessing under regulation 9(3) if noise emitted from Fimiston Gold Mine when received at a location is to be taken to be free of the characteristics referred to in regulation 7(1)(b), the adjustment in regulation 9(3) Table 2 column 1 where tonality is present is varied to 0 dB.

4. Duration of approval

- (1) This approval has effect for 5 years from the start day or a longer period that applies under subclause (2).
- (2) If KCGM applies for a further approval under regulation 17 in relation to the Fimiston Gold Mine within the first 4 years in which this approval has effect, this approval continues to operate until the Minister grants, or refuses to grant, the further approval.

5. Condition of approval

The approval is subject to the condition that KCGM ensures that clauses 6 to 10 are complied with.

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6. Early stage mining activity in Golden Pike Cutback only during day

Mining operations in the Golden Pike Cutback must be conducted only during the day unless the work is carried out at a level that is 20 metres below the undisturbed ground surface level.

7. Monitoring noise received at locations

- (1) KCGM is, as far as practicable, to continuously record levels of noise received at a place within each of Kalgoorlie Technical School and Boulder Primary School.
- (2) KCGM is to record levels of noise received at a place on each of Outram Street Boulder, York Street Boulder and Barton Street Williamstown in accordance with the noise monitoring programme for that location in the noise and vibration management plan submitted or revised under clause 8.
- (3) KCGM is to keep the records for at least 2 years.

8. Noise and vibration management plan

- (1) KCGM is to submit to the Director within 3 months of the start day a noise and vibration management plan.
- (2) The noise and vibration management plan is to include the following —
 - (a) a noise monitoring programme for each location;
 - (b) a programme to monitor weather conditions relevant to Fimiston Gold Mine;
 - (c) a programme for provision of information to the community about noise emissions from the Fimiston Gold Mine;
 - (d) procedures to be adopted by KCGM in responding to complaints about noise emissions;

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- (e) procedures to be adopted by KCGM to adapt mining operations to minimise noise emissions;
 - (f) procedures to be adopted by KCGM to minimise tonality, modulation and impulsiveness in noise emissions;
 - (g) procedures to be adopted by KCGM to minimise noise emissions from haul trucks during maintenance of the trucks, including noise testing procedures;
 - (h) programmes to be used by KCGM for noise modelling and verification;
 - (i) any other matter that the Director may require.
- (3) At any time after receiving a noise and vibration management plan the Director may, by notice in writing, require KCGM to provide a revised noise and vibration management plan including details of any matters specified in the notice.
- (4) A revised noise and vibration management plan required under subclause (3) is to be provided within the time the Director specifies in the notice.

9. Noise reduction target

KCGM is to take all reasonable measures to reduce noise emitted by the Fimiston Gold Mine with the aim of reducing noise emission by 3 dB within 5 years of the start day.

10. Annual reports

- (1) KCGM is to prepare a written report —
- (a) for the year beginning on the start day; and
 - (b) for each year that begins on the anniversary of that day.
- (2) The report for a year is to contain the following —
- (a) a summary of the levels of noise recorded under clause 7 during the year;

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- (b) particulars of any action taken by KCGM during the year to reduce the level of noise emitted from Fimiston Gold Mine.
- (3) KCGM is to give the report for a year to the Director within one month after the end of the year, or by such other time as the Director approves.
- (4) On the request of the Director, KCGM is to give the Director any assistance or information necessary to enable the report to be understood by members of the public.

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Schedule 1 Fimiston Gold Mine mining tenements

Schedule 1 — Fimiston Gold Mine mining tenements

[cl. 2]

1. **Mining tenement — Fimiston I**
M26/383
2. **Mining tenements — Fimiston II**
M26/308 M26/451
G26/44 to 68 G26/70 to 71
G26/73 to 78 G26/82 to 86
3. **Mining tenements — Golden Pike Cutback**
M26/316 M26/359
M26/388 M26/405
4. **Mining tenements — Kaltails TSF**
G 1 SA G 2 SA
5. **Mining tenements — Northern Waste Dumps**
M26/46 M26/87
M26/131 M26/359
M26/383

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Weather influencing factor **Schedule 2**

Schedule 2 — Weather influencing factor

[cl. 3(2)]

Weather Influencing factors for different weather conditions

Wind Direction	Wind Speed (km/hr)	Location / Weather Influencing Factor (dB)				
		BSW ¹	BPS ²	KTS ³	OST ⁴	YST ⁵
Calm	< 2	3	6	6	5	4
Northerly	≥ 2	-2	6	6	5	5
North Easterly	≥ 2	2	6	6	4	5
Easterly	≥ 2	4	6	6	4	5
South Easterly	≥ 2	4	6	6	3	5
Southerly	≥ 2	4	4	6	2	5
South Westerly	≥ 2	3	2	5	2	4
Westerly	2-7	0	2	3	3	2
Westerly	> 7	-4	-3	-2	3	-3
North Westerly	2-7	-4	4	3	4	2
North Westerly	> 7	-6	3	-1	3	-1

1. Barton Street Williamstown
2. Boulder Primary School
3. Kalgoorlie Technical School
4. Outram Street Boulder
5. York Street Boulder

DONNA FARAGHER, Minister for Environment.