APPENDICES

Appendix A  Noise Source Sound Power Levels

Appendix B  Representative Noise Level Contours

(No. of pages excluding this page = 26)
Appendix A

Noise Source Sound Power Levels

(No. of pages excluding this page = 1)
### Table A1
Noise Source Sound Power Levels, Lw

<table>
<thead>
<tr>
<th>Noise Source</th>
<th>Lw,dB(A)</th>
<th>L_{Aeq}</th>
<th>L_{Amax}</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Surface works noise sources</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Building fabrication at surface facilities</td>
<td>107</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Front end loader</td>
<td></td>
<td>114</td>
<td></td>
</tr>
<tr>
<td>2 x Topsoil scrapers</td>
<td></td>
<td>115</td>
<td></td>
</tr>
<tr>
<td>Overburden truck</td>
<td></td>
<td>113</td>
<td></td>
</tr>
<tr>
<td>Grader</td>
<td></td>
<td>108</td>
<td></td>
</tr>
<tr>
<td>Pneumatic roller</td>
<td></td>
<td>109</td>
<td></td>
</tr>
<tr>
<td><strong>Operational noise sources</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Conveyors</td>
<td>80dB/metre</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dozer at stockpile$^1$</td>
<td>107</td>
<td>114</td>
<td></td>
</tr>
<tr>
<td>Crusher (attenuated)</td>
<td>100</td>
<td>108</td>
<td></td>
</tr>
<tr>
<td>CHPP (attenuated)</td>
<td>109</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rail load-out</td>
<td>102</td>
<td>114</td>
<td></td>
</tr>
<tr>
<td>Workshop</td>
<td>95</td>
<td>105</td>
<td></td>
</tr>
<tr>
<td>Ventilation fans (attenuated)$^2$</td>
<td>103</td>
<td>105</td>
<td></td>
</tr>
<tr>
<td>Personnel carrier</td>
<td>110</td>
<td>115</td>
<td></td>
</tr>
<tr>
<td>Locos idling on rail loop</td>
<td>102</td>
<td>106</td>
<td></td>
</tr>
</tbody>
</table>

$^1$ Based on measurements taken at Werris Creek Mine. May be either attenuated D10 or other dozer with limited reverse speed.

$^2$ As modelled in the acoustic assessment. Level of 98dB(A) is likely to be achieved.
Appendix B

Representative Noise Level Contours

(No. of pages excluding this page = 25)
B1: Predicted Noise Contours: Scenario 1 under Neutral (calm) Conditions
B2: Predicted Noise Contours: Scenario 1 under Mild Inversion (2º/100m) Conditions
B3: Predicted Noise Contours: Scenario 1 under Moderate Inversion (4º/100m) Conditions
B4: Predicted Noise Contours: Scenario 1 under Severe Inversion (6º/100m) Conditions
B5: Predicted Noise Contours: Scenario 1 under Southeast Wind Conditions
B6: Predicted Noise Contours: Scenario 2a under Neutral (calm) Conditions
B7: Predicted Noise Contours: Scenario 2a under Mild Inversion (2º/100m) Conditions
B8: Predicted Noise Contours: Scenario 2a under Moderate Inversion (4º/100m) Conditions
B9: Predicted Noise Contours: Scenario 2a under Severe Inversion (6º/100m) Conditions
B10: Predicted Noise Contours: Scenario 2a under Southeast Wind Conditions
B11: Predicted Noise Contours: Scenario 2b under Neutral (calm) Conditions
B12: Predicted Noise Contours: Scenario 2b under Mild Inversion (2º/100m) Conditions
B13: Predicted Noise Contours: Scenario 2b under Moderate Inversion (4º/100m) Conditions
B14: Predicted Noise Contours: Scenario 2b under Severe Inversion (6º/100m) Conditions
B15: Predicted Noise Contours: Scenario 2b under Southeast Wind Conditions
B16: Predicted Noise Contours: Scenario 3a under Neutral (calm) Conditions
B17: Predicted Noise Contours: Scenario 3a under Mild Inversion (2º/100m) Conditions
B18: Predicted Noise Contours: Scenario 3a under Moderate Inversion (4º/100m) Conditions
B19: Predicted Noise Contours: Scenario 3a under Severe Inversion (6º/100m) Conditions
B20: Predicted Noise Contours: Scenario 3a under Southeast Wind Conditions
B21: Predicted Noise Contours: Scenario 3b under Neutral (calm) Conditions
B22: Predicted Noise Contours: Scenario 3b under Mild Inversion (2º/100m) Conditions
B23: Predicted Noise Contours: Scenario 3b under Moderate Inversion (4º/100m) Conditions
B24: Predicted Noise Contours: Scenario 3b under Severe Inversion (6º/100m) Conditions
B25: Predicted Noise Contours: Scenario 3b under Southeast Wind Conditions
Figure B1
PREDICTED OPERATIONAL NOISE
CONTOURS: SCENARIO 1 UNDER NEUTRAL (Calm) CONDITIONS

Scale 1:50 000

REFERENCE
- Mine Site Boundary
- Indicative Limit of Underground Workings
- Pit Top Area Boundary
- Zoned Boundaries
- Contour (m AHD)(Interval = 2m)
- Creek / Drainage Line
- Approved Disturbance within the Pit Top Area Area of Proposed Stage 2 Surface Disturbance
- Proposed Stage 2 All Weather Unsealed Access Road
- Proposed Stage 2 Power Line
- Proposed Stage 2 Power Line Advancing with Mine
- Proposed Stage 2 Access for Goaf Drainage
- Noise Generating Activity Reference
- Residential Receiver
- Noise Contours (dB(A)), Leq(15 minute)

Note: A colour version of this figure is available on the Project CD

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Figure B2
PREDICTED OPERATIONAL NOISE
CONTOURS: SCENARIO 1 UNDER MILD INVERSION (2°/100m) CONDITIONS

Note: A colour version of this figure is available on the Project CD.
Figure B4
PREDICTED OPERATIONAL NOISE
CONTOURS: SCENARIO 1 UNDER SEVERE INVERSION (6°/100m) CONDITIONS
Figure B5
PREDICTED OPERATIONAL NOISE
CONTOURS: SCENARIO 1 UNDER SOUTHEAST WIND CONDITIONS

SCALE 1:50 000

REFERENCE
- Mine Site Boundary
- Indicative Limit of Underground Workings
- Pit Top Area Boundary
- Contour (m AHD)(Interval = 2m)
- Creek / Drainage Line
- Approved Disturbance within the Pit Top Area
- Area of Proposed Stage 2 Surface Disturbance
- Proposed Stage 2 All Weather Unsealed Access Road
- Proposed Stage 2 Power Line
- Proposed Stage 2 Power Line Advancing with Mine
- Proposed Stage 2 Access for Goaf Drainage
- Noise Generating Activity Reference
- R1
- Noise Contour (dB(A)), Leq(15 minute)
- Residential Receiver

Note: A colour version of this figure is available on the Project CD
Figure B6
PREDICTED OPERATIONAL NOISE
CONTOURS: SCENARIO 2a UNDER NEUTRAL (Calm) CONDITIONS

Note: A colour version of this figure is available on the Project CD.
Figure B7
PREDICTED OPERATIONAL NOISE
CONTOURS: SCENARIO 2a UNDER MILD INVERSION (2°/100m) CONDITIONS

Note: A colour version of this figure is available on the Project CD

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Figure B8
PREDICTED OPERATIONAL NOISE
CONTOURS: SCENARIO 2a UNDER MODERATE INVERSION (4°/100m) CONDITIONS

SCALE 1:50 000

Note: A colour version of this figure is available on the Project C3
Figure B9
PREDICTED OPERATIONAL NOISE
CONTOURS: SCENARIO 2a UNDER SEVERE INVERSION (6°/100m) CONDITIONS
Figure B10
PREDICTED OPERATIONAL NOISE
CONTOURS: SCENARIO 2a UNDER
SOUTHEAST WIND CONDITIONS

Scale 1:50 000
0.5 0 0.5 1.0 1.5 2.0 km

Mine Site Boundary
Indicative Limit of Underground Workings
Pit Top Area Boundary
Cadastral Boundary
Contour (m AHD)(Interval = 2m)
Creek / Drainage Line
Approved Disturbance within the Pit Top Area
Area of Proposed Stage 2 Surface Disturbance

Proposed Stage 2 All Weather Unsealed Access Road
Proposed Stage 2 Power Line
Proposed Stage 2 Power Line Advancing with Mine
Proposed Stage 2 Access for Goaf Drainage
Noise Generating Activity Reference
Residential Receiver
Noise Contour (dB(A)), Leq(15 minute)

Note: A colour version of this figure is available on the Project CD