

15

BLASTING

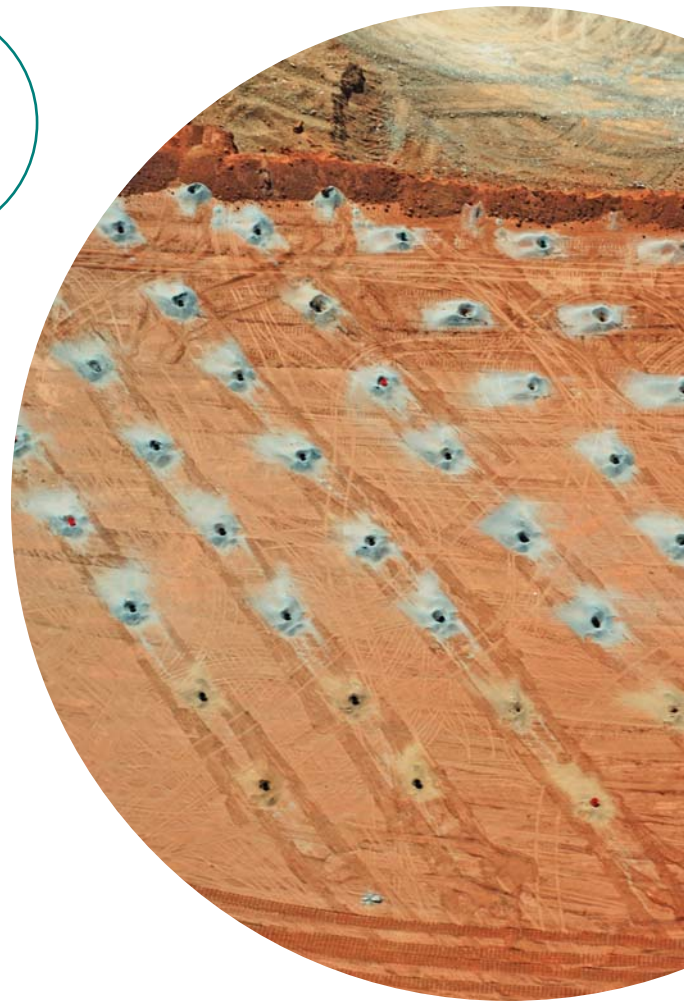
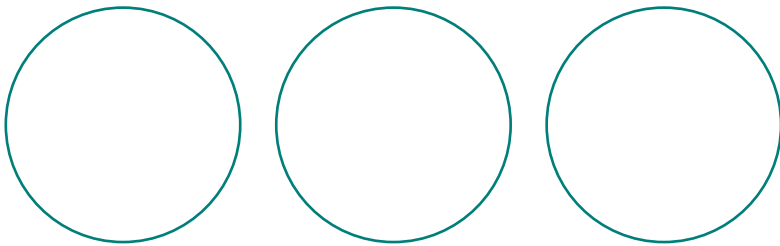


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15 BLASTING

A detailed Blasting Assessment was prepared for the Ensham Central Project Environmental Impact Statement (Appendix H and Section 15 of the Ensham Central Project Environmental Impact Statement). This section describes the changes to the predicted blasting assessment for the Revised Central Area Mining Methodology.

15.1 INTRODUCTION

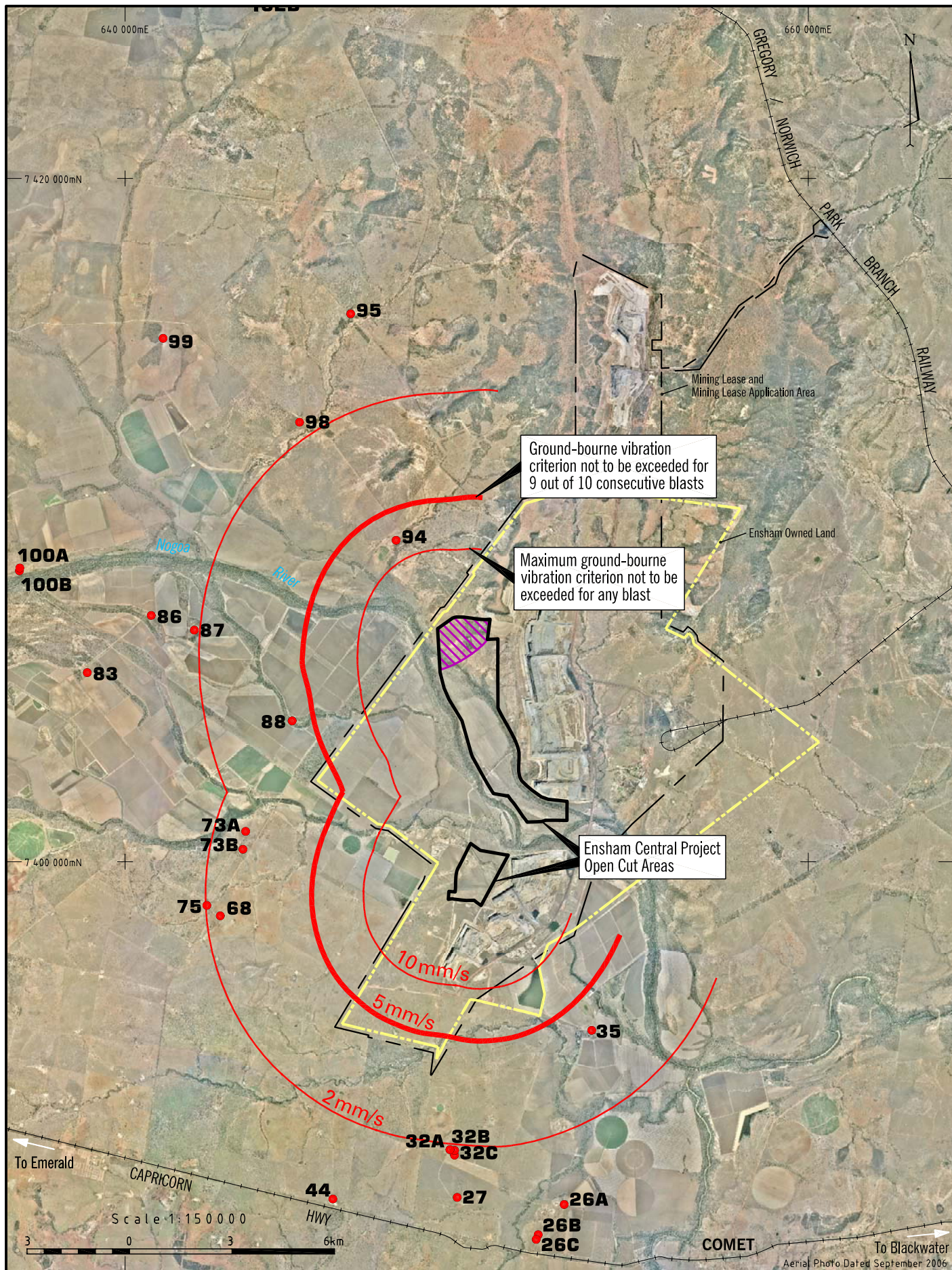
A detailed assessment of blast impacts for the Ensham Central Project Environmental Impact Statement (ECP EIS) was undertaken by Terrock Consulting Engineers. It was prepared to address blasting issues described in the ECP EIS Terms of Reference and raised by stakeholders during the ECP EIS consultation program.

The ECP EIS blast impact concluded that ground vibrations and airblast levels were predicted to be generally below the relevant criteria. The only exception was residence 94 (Figures 15-1 and 15-2), which was predicted to be subject to ground vibration and airblast in excess of the criteria from blasts located in the north-west limit of the proposed central area open cut mining operations (Figure 15-1 and 15-2).

The Revised Central Area Mining Methodology (RCAMM) does not involve any open cut mining in the area identified in the ECP EIS as potentially resulting in blast criteria exceedances at residence 94. Blasting operations for the Ensham Mine, including the RCAMM will otherwise be similar to those assessed in the ECP EIS. The blast impacts of the Ensham Mine, including the RCAMM are therefore expected to be within the DERM blast criteria at all sensitive locations.

As proposed in the ECP EIS, the proponent has an existing complaints handling protocol to respond to any complaints in relation to blast impacts and conduct blast monitoring, where necessary. The proponent will also continue to undertake blast monitoring in response to complaints and/or at the request of the DERM.

FIGURES



- Neighbouring Private Residence
- Ensham Owned Land
- Mining Lease and Mining Lease Application Area
- Ground Vibration
- EPA Criterion
- ▨ Area of potential blast mitigation

ENSHAM CENTRAL PROJECT

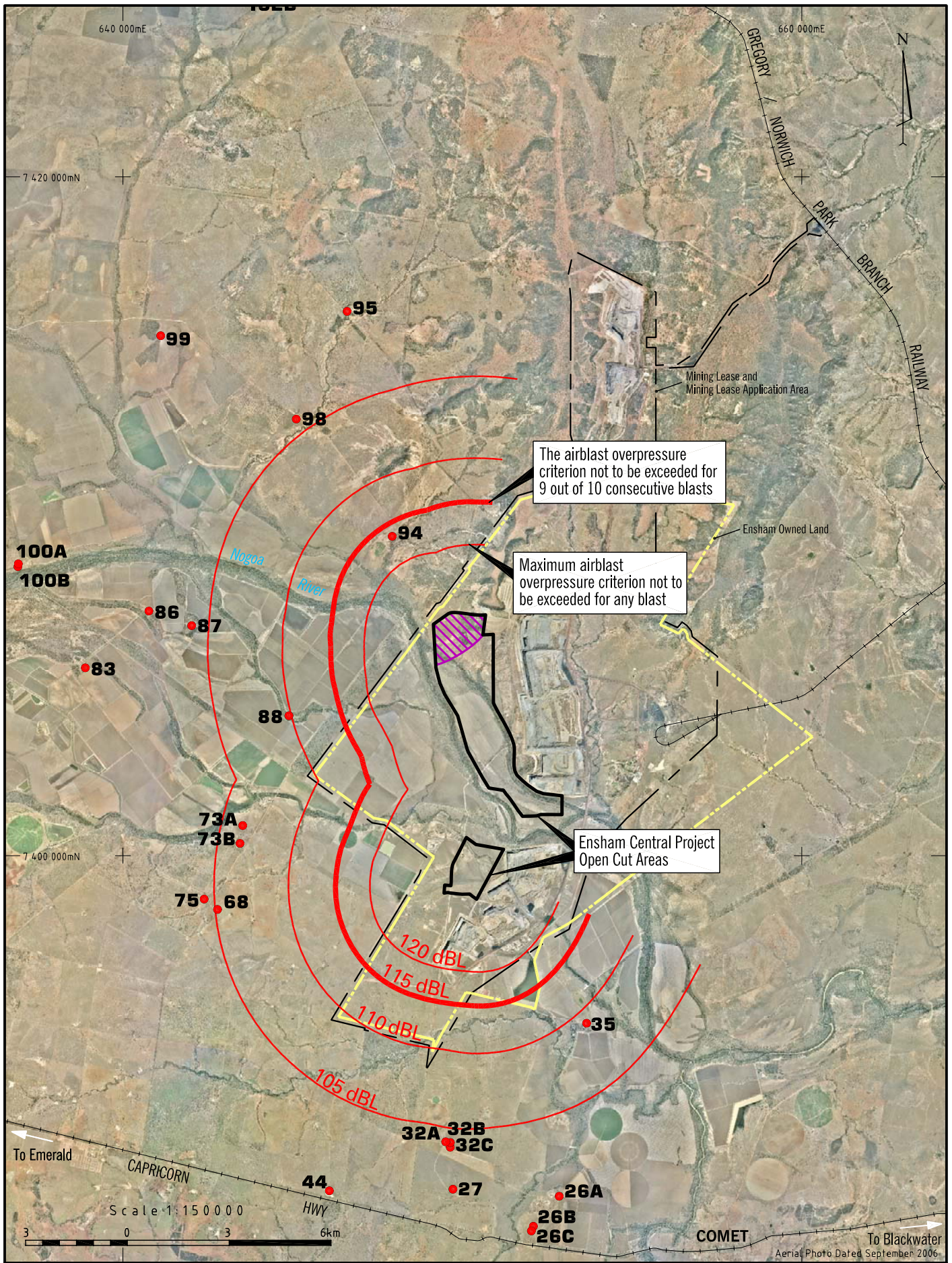
Ground Vibration Predictions



Ensham
RESOURCES

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FIGURE 15-1



ENSHAM CENTRAL PROJECT

Airblast Predictions

- Neighbouring Private Residence
- Ensham Owned Land
- Mining Lease and Mining Lease Application Area
- Airblast
- EPA Criterion
- ▨ Area of potential blast mitigation