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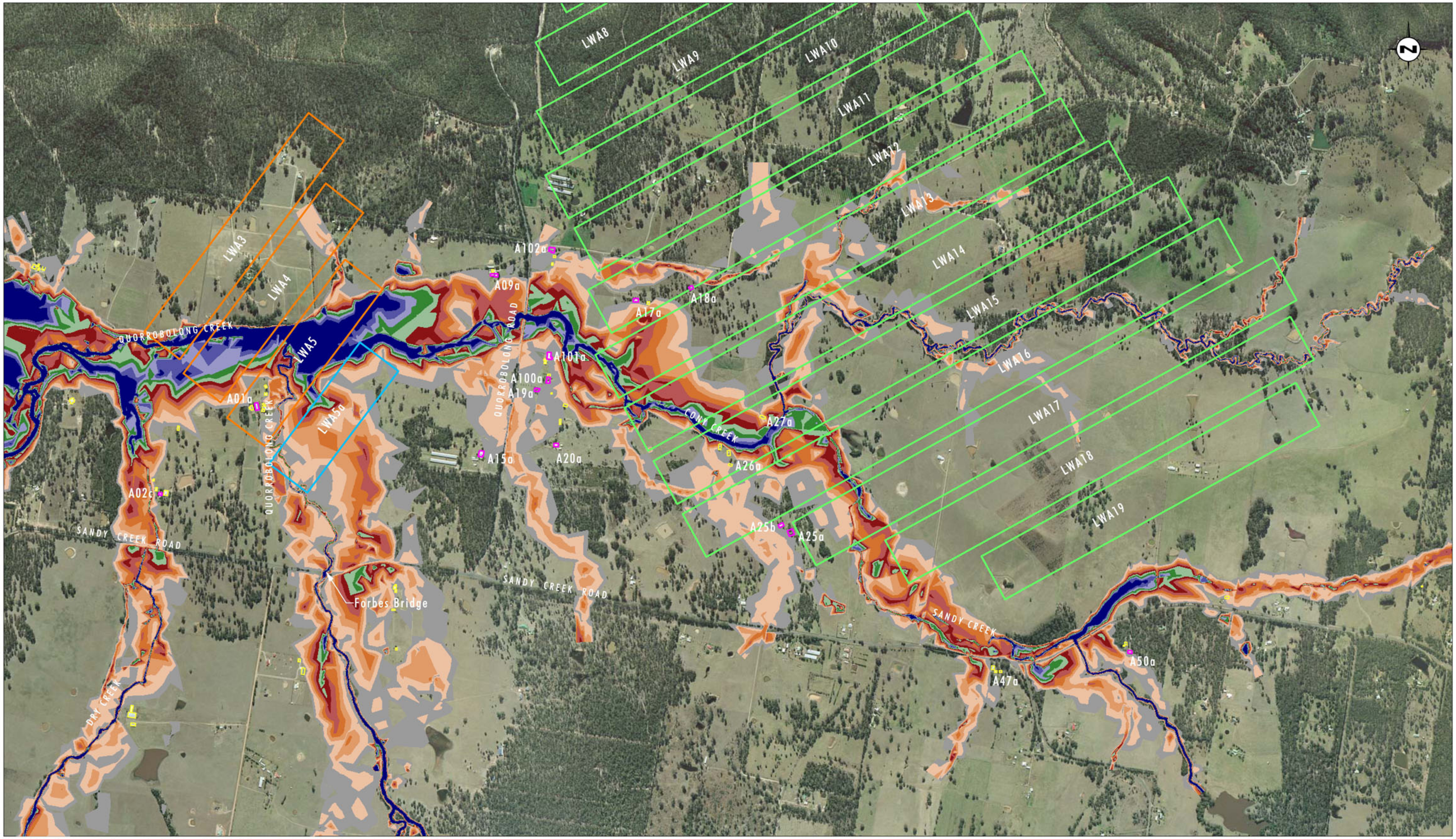


Source: Longwall Layout: Austar Coal Mine, Aerial Photography: AAM Hatch 2006
Note: Dwellings only shown for flood model extent

0 300 600 900m
1:18 000

Legend

- Layout for Stage 2 Longwall Panels
- Layout for Stage 2 Extension Longwall Panel
- Layout for Proposed Stage 3 Modification Longwall Panels
- Building
- Dwelling
- A01a Dwelling Reference Number

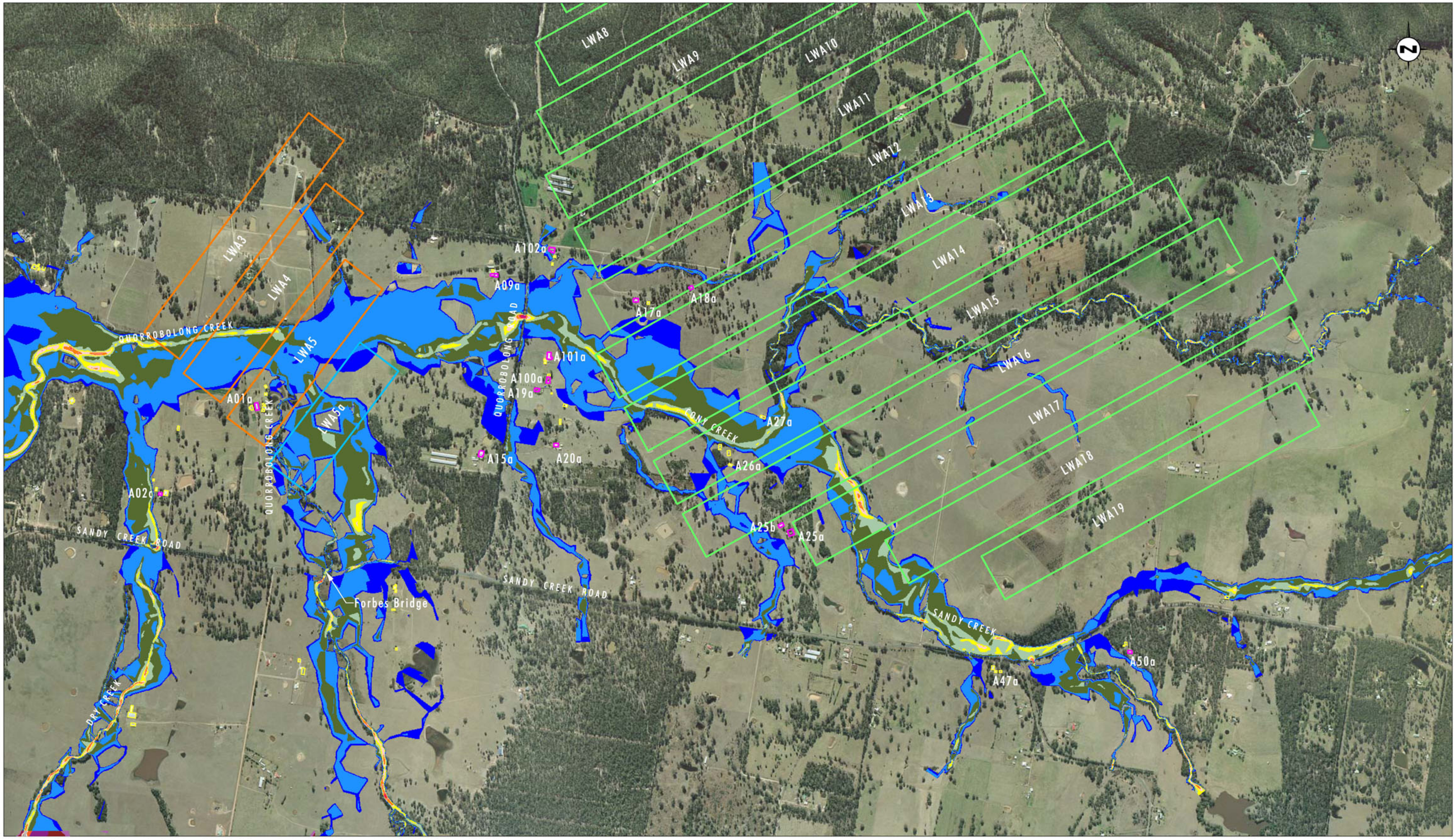
Water Depth (m)

- Range [0.001 : 0.100]
- Range [0.100 : 0.300]
- Range [0.300 : 0.500]
- Range [0.500 : 0.700]
- Range [0.700 : 0.900]
- Range [0.900 : 1.100]
- Range [1.100 : 1.300]
- Range [1.300 : 1.500]
- Range [1.500 : 1.700]
- Range [1.700 : 1.900]
- Range [>1.900]

FIGURE 3.1

100 year ARI Storm: Maximum Modelled Water Depths for Maximum Predicted Subsidence (Stage 3 Modification)

File Name (A3): R68_V1/2274_864.dgn



Source: Longwall Layout: Austar Coal Mine, Aerial Photography: AAM Hatch 2006
Note: Dwellings only shown for flood model extent

Legend

- Layout for Stage 2 Longwall Panels
- Layout for Stage 2 Extension Longwall Panel
- Layout for Proposed Stage 3 Modification Longwall Panels
- Building
- Dwelling
- A01a Dwelling Reference Number

Velocity (m/s)

- Range [0.100 : 0.250]
- Range [0.250 : 0.500]
- Range [0.500 : 0.750]
- Range [0.750 : 1.000]
- Range [1.000 : 1.250]
- Range [1.250 : 1.500]
- Range [1.500 : 1.750]
- Range [1.750 : 2.000]
- Range [2.000 : 2.250]
- Range [2.250 : 3.500]

FIGURE 3.2

100 year ARI Storm: Maximum Modelled Water Velocities for Maximum Predicted Subsidence (Stage 3 Modification)

File Name (A3): R68_V1/2274_865.dgn

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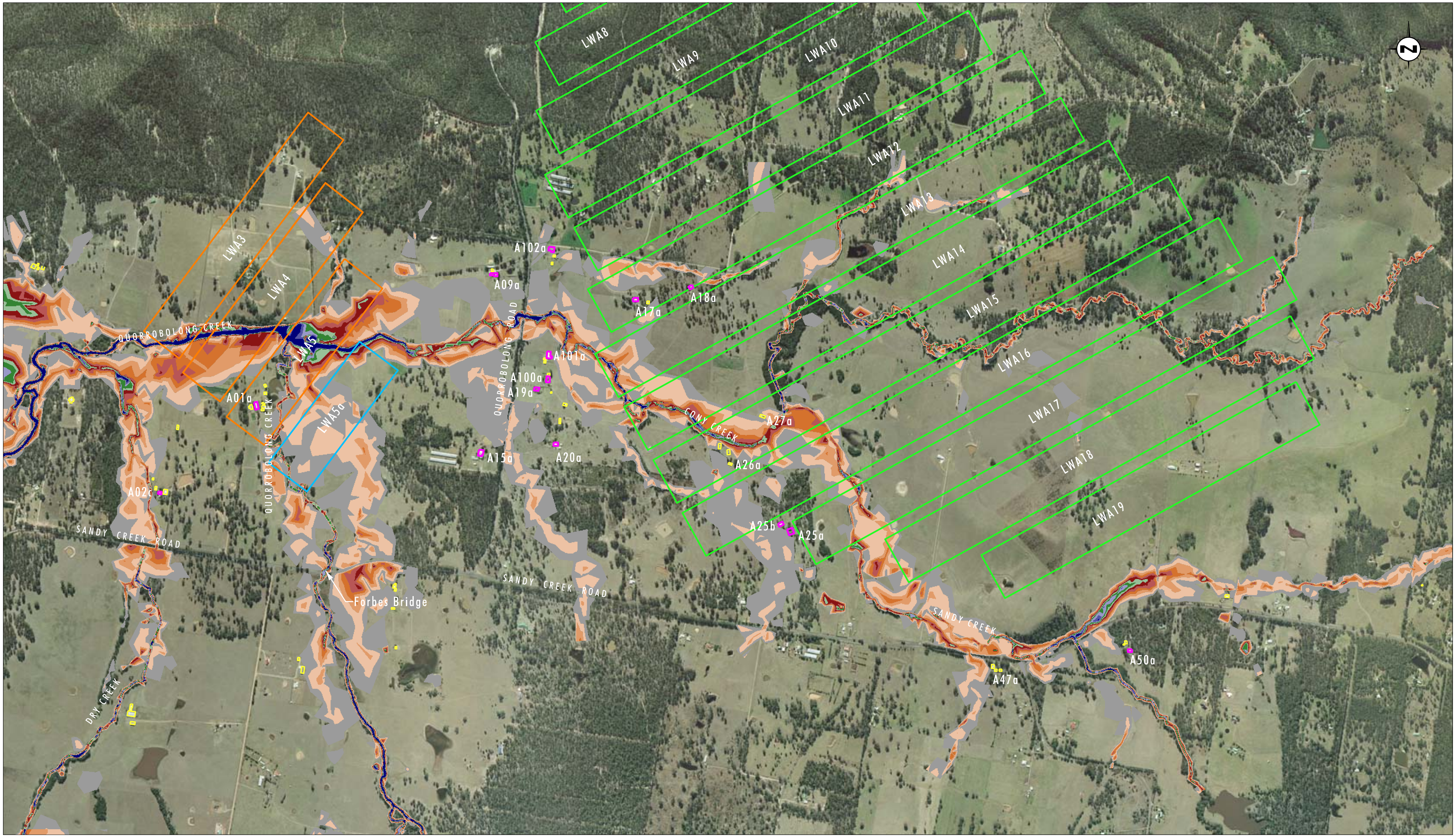


Source: Longwall Layout: Austar Coal Mine, Aerial Photography: AAM Hatch 2006
Note: Dwellings only shown for flood model extent

0 300 600 900m
1:18 000

Legend

- Layout for Stage 2 Longwall Panels
- Layout for Stage 2 Extension Longwall Panel
- Conceptual Layout for Stage 3 Longwall Panels
- Building
- Dwelling
- A01a Dwelling Reference Number

Water Depth (m)

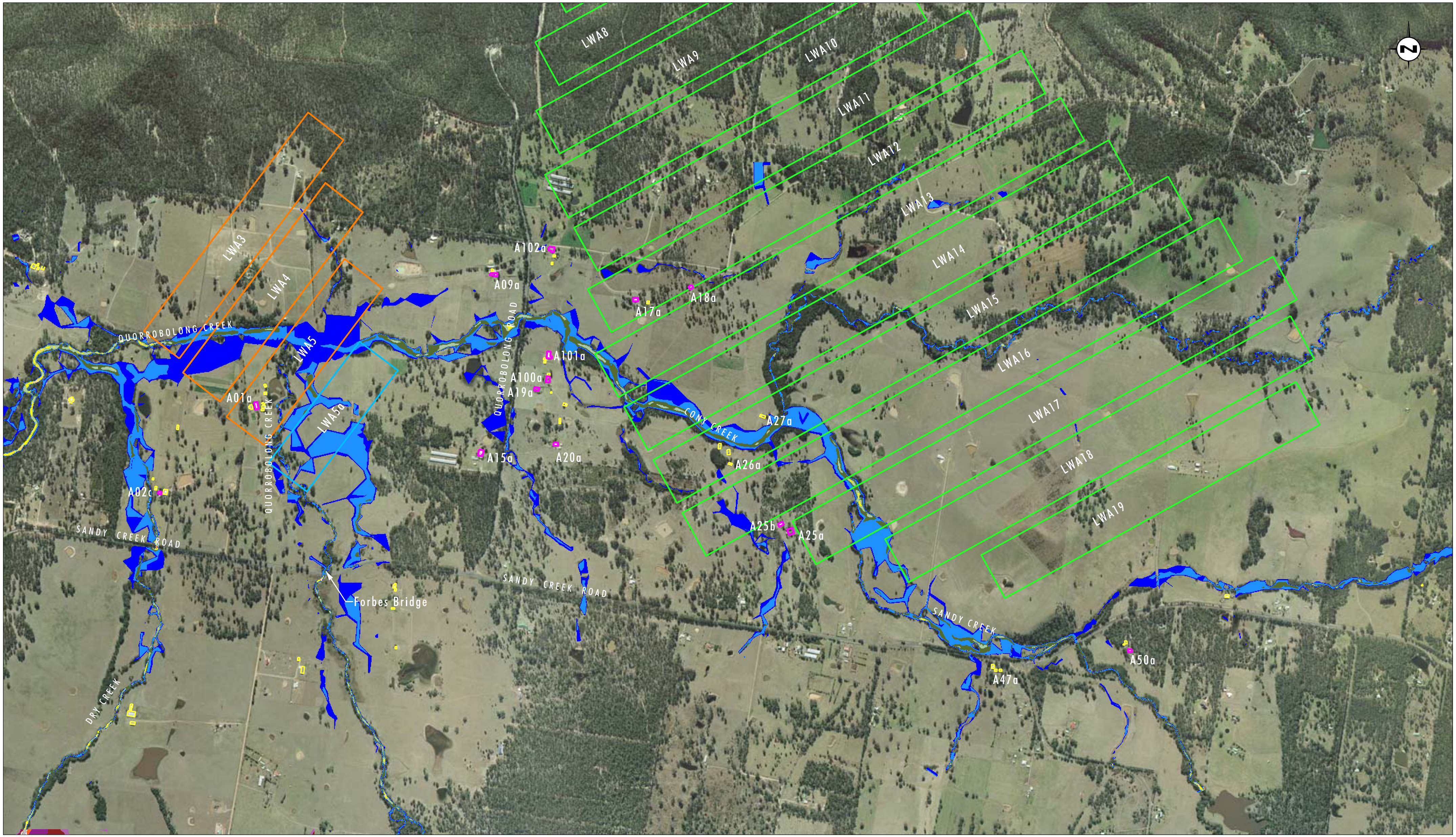
- Range [0.001 : 0.100]
- Range [0.100 : 0.300]
- Range [0.300 : 0.500]
- Range [0.500 : 0.700]
- Range [0.700 : 0.900]
- Range [0.900 : 1.100]
- Range [1.100 : 1.300]
- Range [1.300 : 1.500]
- Range [1.500 : 1.700]
- Range [1.700 : 1.900]
- Range [>1.900]

FIGURE 3.3

1 year ARI Storm: Maximum Modelled Water Depths for Maximum Predicted Subsidence (Stage 3 Modification)

File Name (A3): R68_V1/2274_868.dgn

Umwelt
Environmental Consultants



Source: Longwall Layout: Austar Coal Mine, Aerial Photography: AAM Hatch 2006
Note: Dwellings only shown for flood model extent

0 300 600 900m
1:18 000

Legend

- Layout for Stage 2 Longwall Panels
- Layout for Stage 2 Extension Longwall Panel
- Conceptual Layout for Stage 3 Longwall Panels
- Building
- Dwelling
- A01a Dwelling Reference Number

Velocity (m/s)

- Range [0.100 : 0.250]
- Range [0.250 : 0.500]
- Range [0.500 : 0.750]
- Range [0.750 : 1.000]
- Range [1.000 : 1.250]
- Range [1.250 : 1.500]
- Range [1.500 : 1.750]
- Range [1.750 : 2.000]
- Range [2.000 : 2.250]
- Range [2.250 : 3.500]

FIGURE 3.4

1 year ARI Storm: Maximum Modelled Water Velocities for Maximum Predicted Subsidence (Stage 3 Modification)

File Name (A3): R68_V1/2274_869.dgn

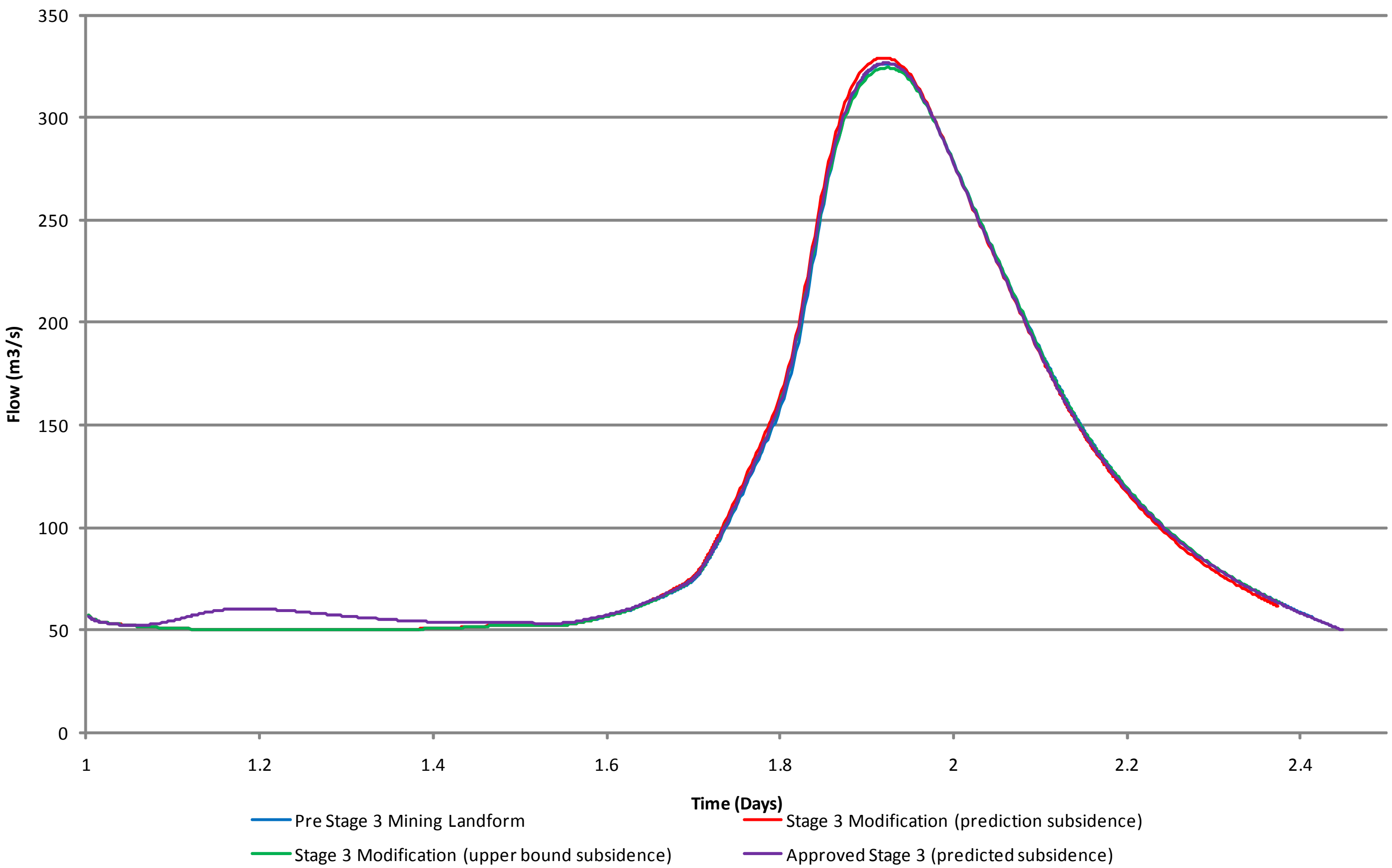


FIGURE 3.5

Modelled 100 year ARI Flow Hydrographs Downstream at Stage 2

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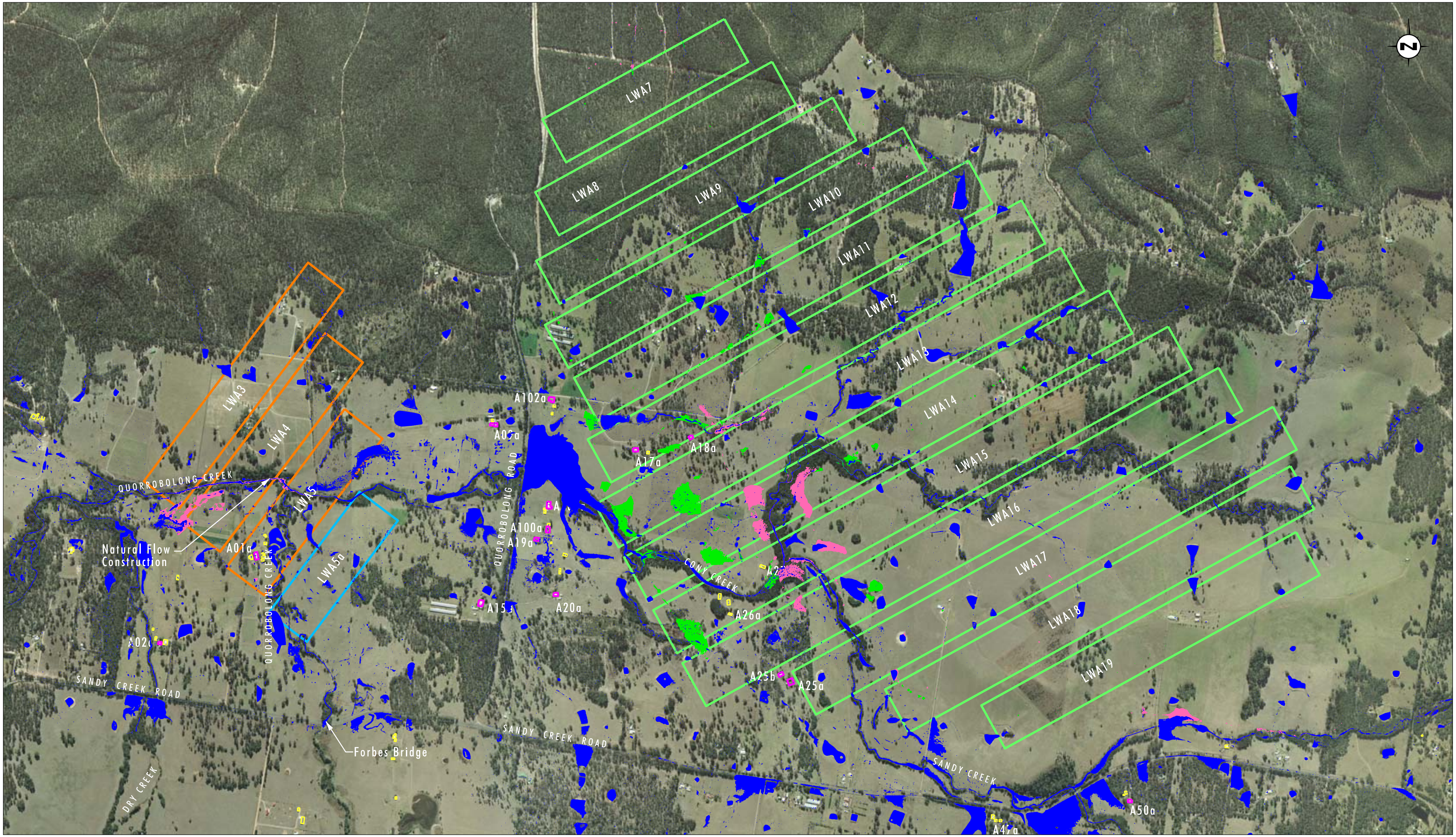

Source: Longwall Layout: Austar Coal Mine, Aerial Photography: AAM Hatch 2006
Note: Dwellings only shown for flood model extent

0 300 600 900m
1:18 000

Legend

- Layout for Stage 2 Longwall Panels
- Layout for Stage 2 Extension Longwall Panel
- Layout for Proposed Stage 3 Modification Longwall Panels
- Building
- Dwelling
- A01a Dwelling Reference Number

Remnant Ponding

- Pre-Mining
- Maximum Predicted Subsidence Stage 3 Approved Longwalls A3 to A5a and A6 to A17
- Maximum Predicted Subsidence Stage 3 Modification Longwalls A3 to A5a and A7 to A19

FIGURE 3.6

Remnant Ponding

File Name (A3): R68_V1/2274_872.dgn

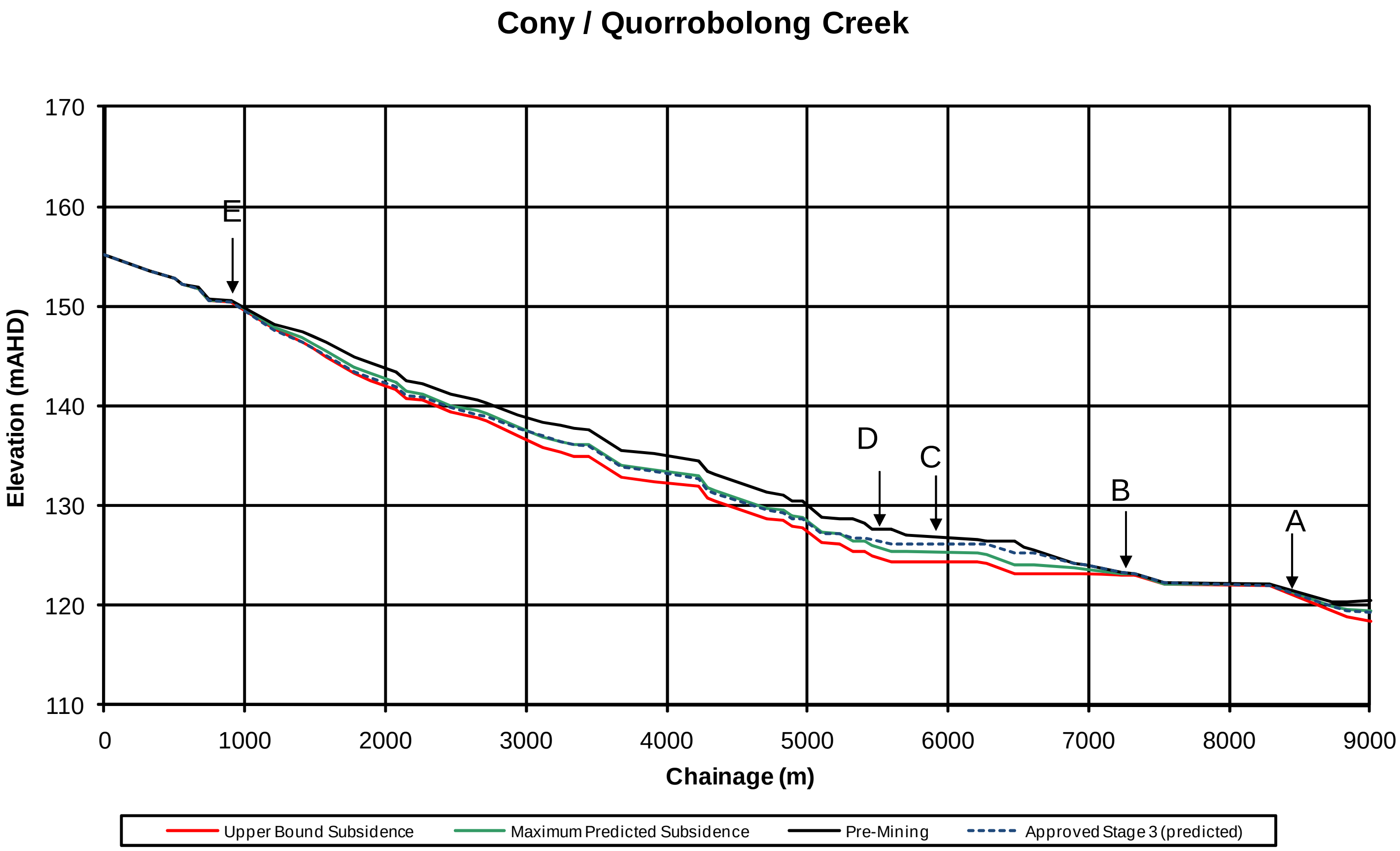

FIGURE 3.7

Cony / Quorrobolong Creek Profile

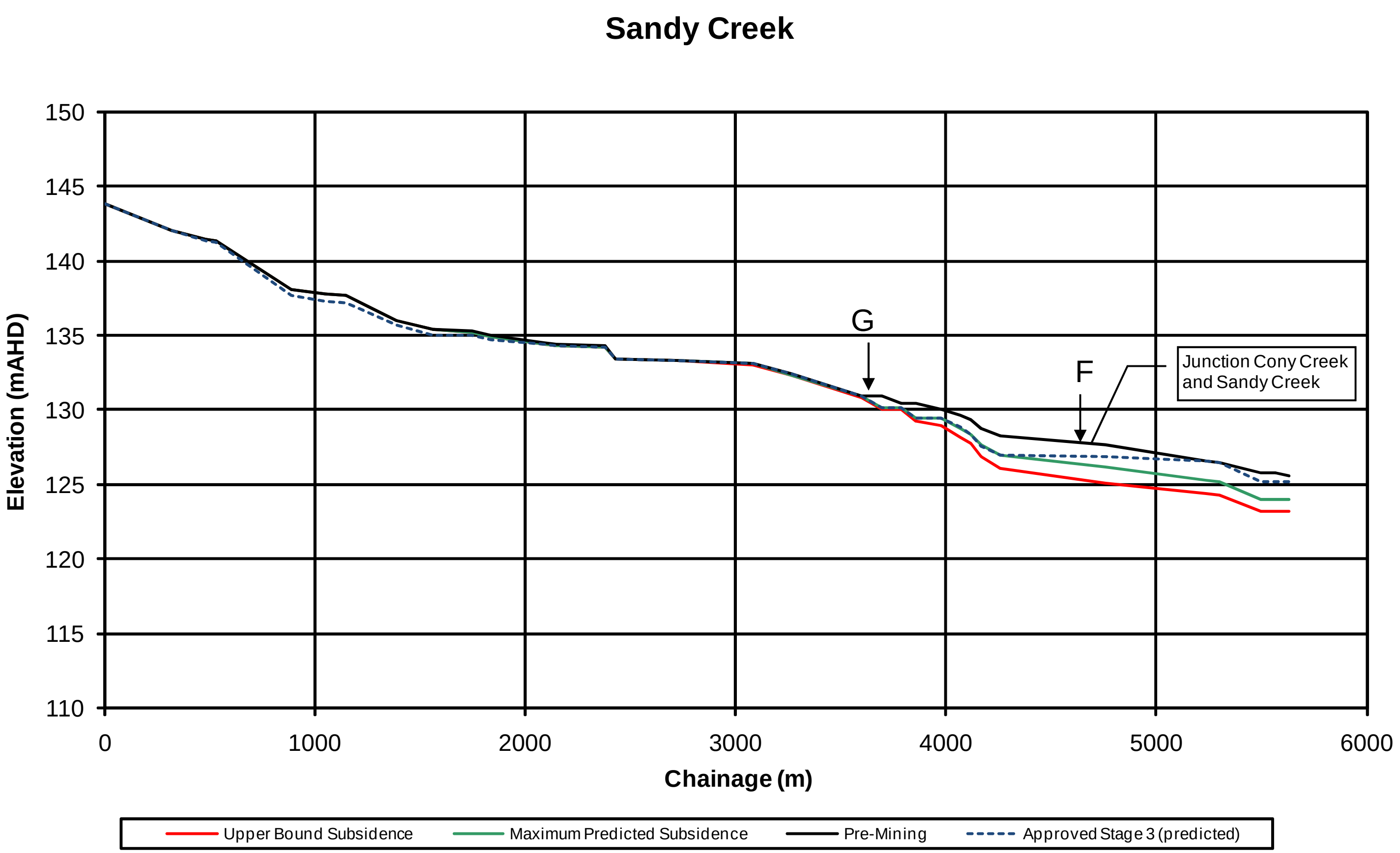

FIGURE 3.8

Sandy Creek Profile