

7. References

1. Pilgrim DH (Editor in Chief), **Australian Rainfall and Runoff – A Guide to Flood Estimation**, Institution of Engineers, Australia, 1987.
2. NSW Government, **Floodplain Development Manual**, 2005.
3. Ball J, Babister M, Nathan R, Weeks W, Weinmann E, Retallick M, Testoni I, (Editors) **Australian Rainfall and Runoff: A Guide to Flood Estimation**, © Commonwealth of Australia (Geoscience Australia), 2016.

FIGURES

FIGURE 1
BLACKTOWN WORKERS CLUB REDEVELOPMENT
SUBJECT SITE LOCATION



- Subject Site
- Cadastral Boundaries



Source: Google Earth

FIGURE 2
BLACKTOWN WORKERS CLUB REDEVELOPMENT
UPSTREAM CATCHMENT & GROUND LEVEL

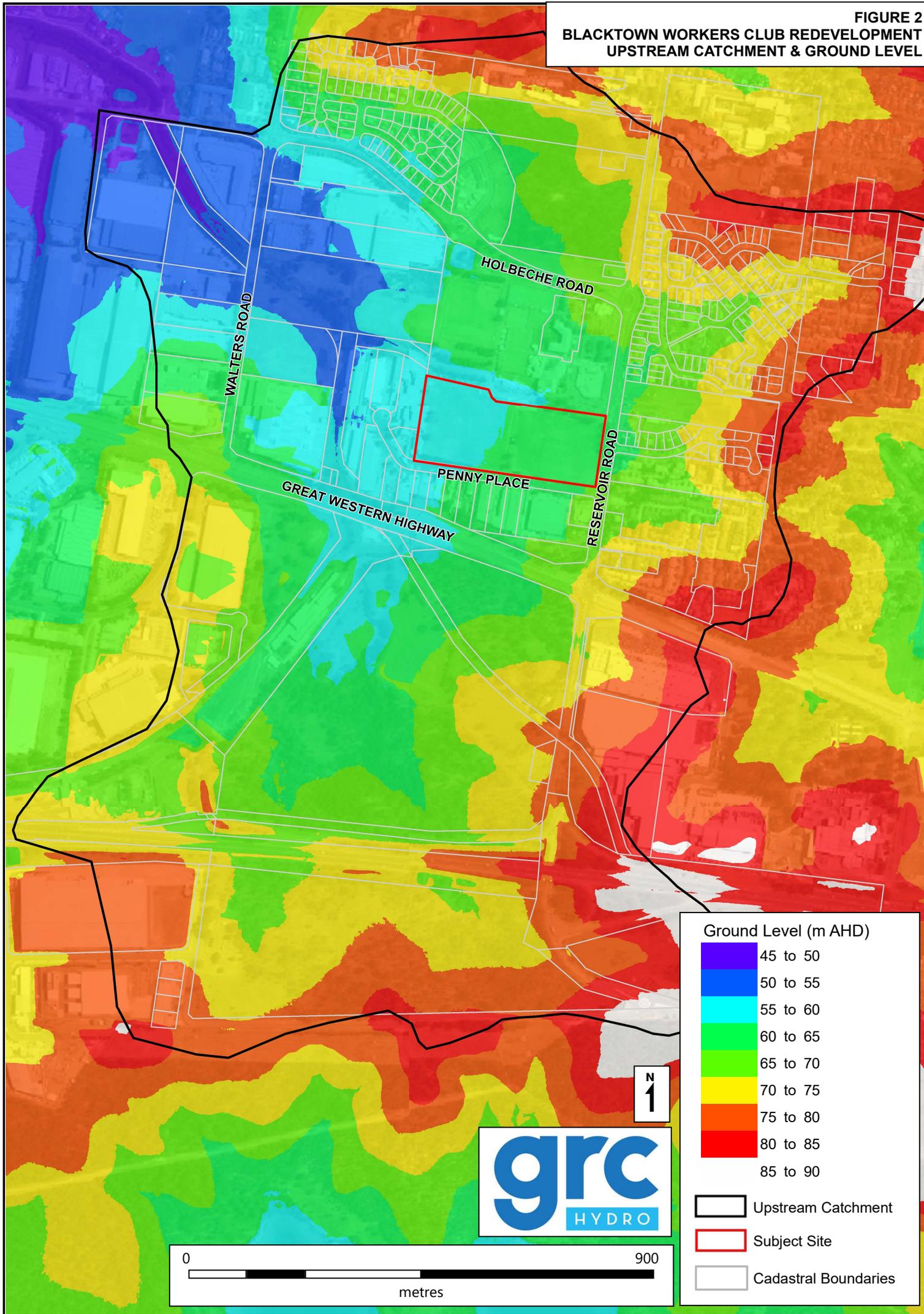
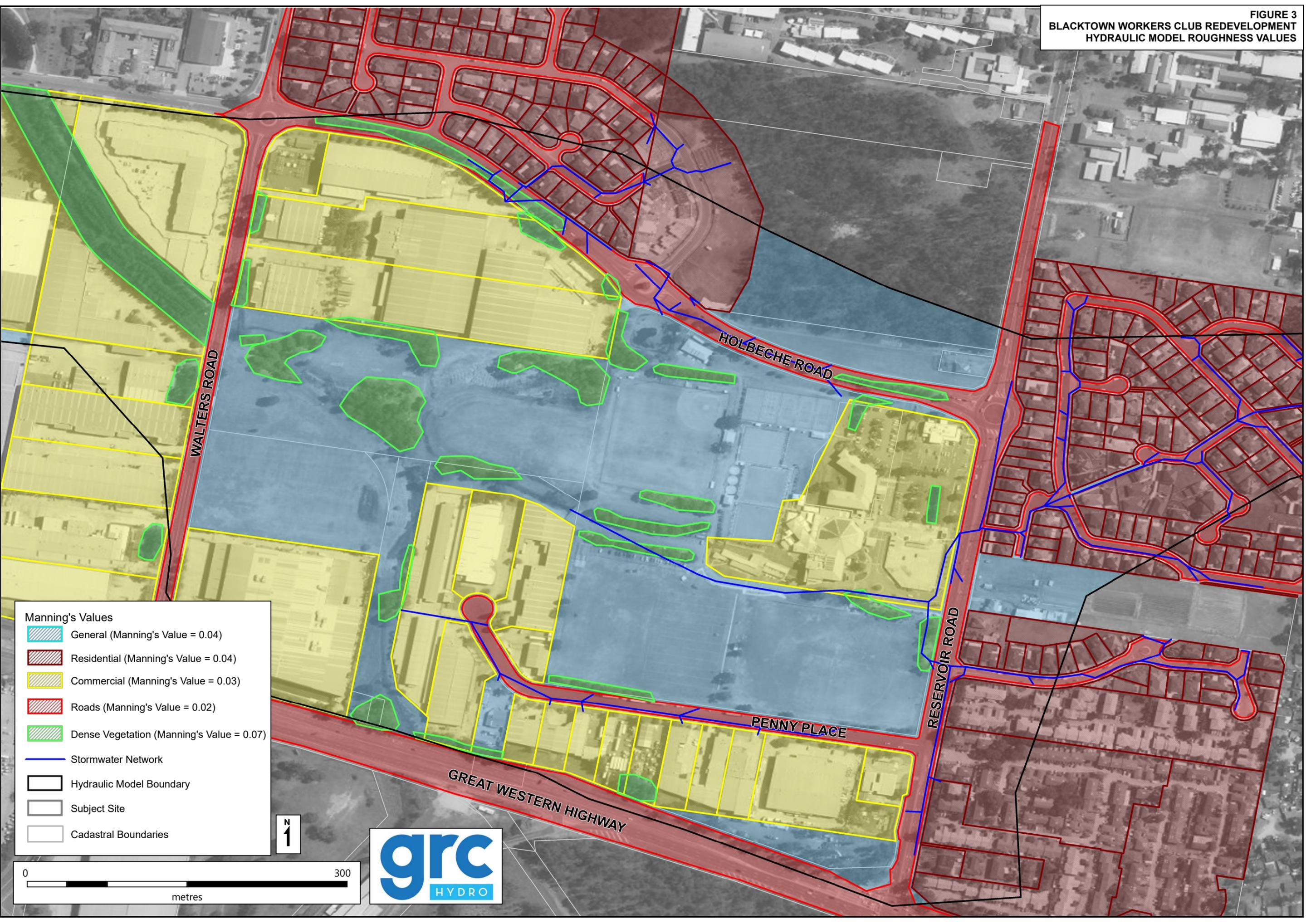


FIGURE 3
BLACKTOWN WORKERS CLUB REDEVELOPMENT
HYDRAULIC MODEL ROUGHNESS VALUES



Manning's Values

-  General (Manning's Value = 0.04)
-  Residential (Manning's Value = 0.04)
-  Commercial (Manning's Value = 0.03)
-  Roads (Manning's Value = 0.02)
-  Dense Vegetation (Manning's Value = 0.07)
-  Stormwater Network
-  Hydraulic Model Boundary
-  Subject Site
-  Cadastral Boundaries

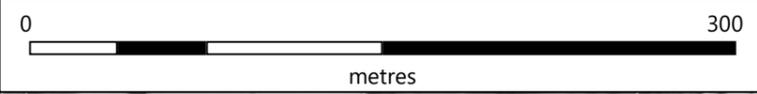


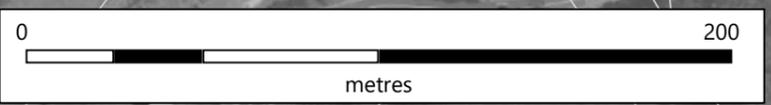
FIGURE 4
BLACKTOWN WORKERS CLUB REDEVELOPMENT
PEAK 1% AEP FLOOD DEPTHS & LEVELS
50% BLOCKAGE



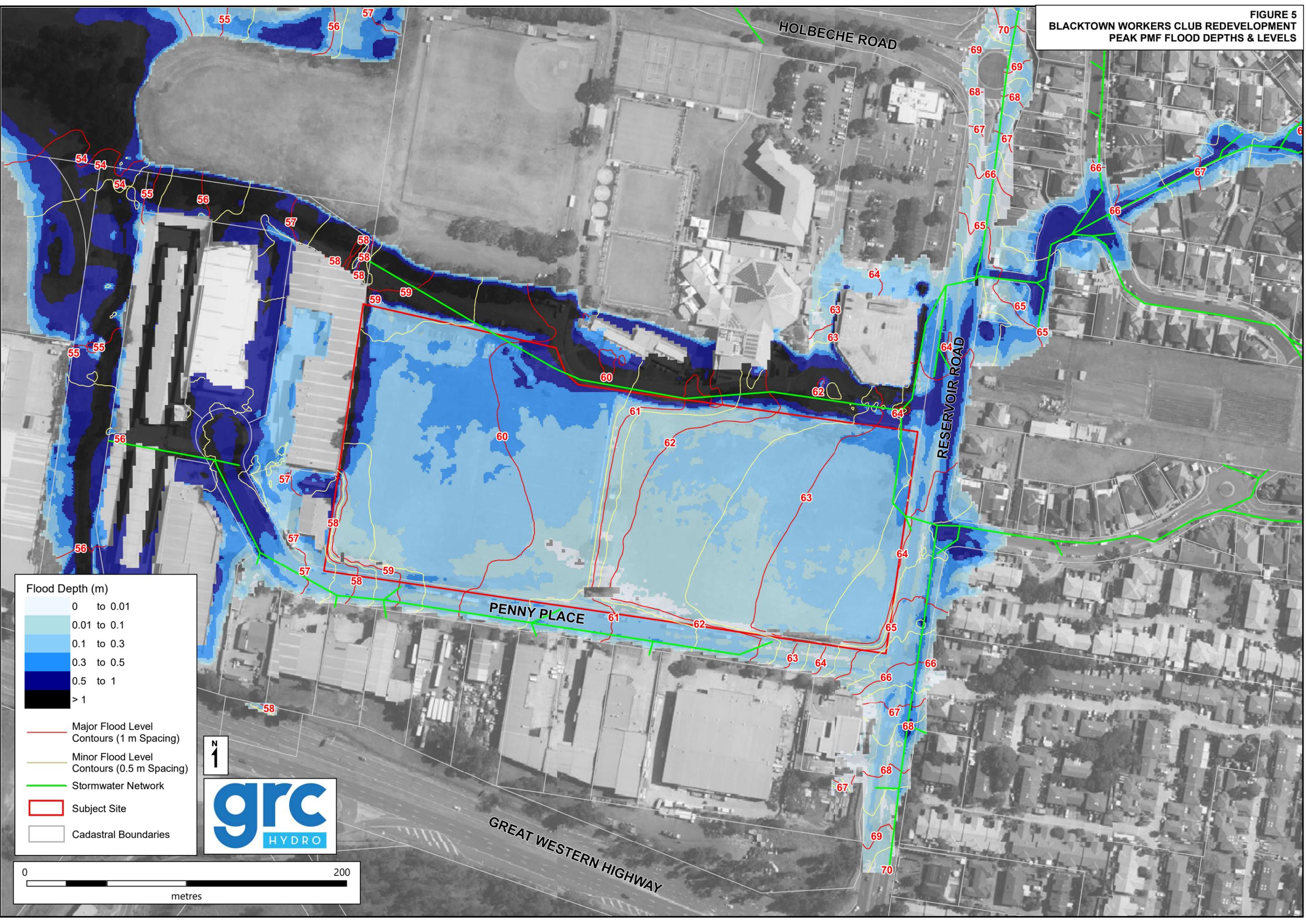
Flood Depth (m)

0 to 0.01
0.01 to 0.1
0.1 to 0.3
0.3 to 0.5
0.5 to 1
> 1

— Major Flood Level Contours (1 m Spacing)
 — Minor Flood Level Contours (0.5 m Spacing)
 — Stormwater Network
 [Red Outline] Subject Site
 [Thin White Outline] Cadastral Boundaries



**FIGURE 5
BLACKTOWN WORKERS CLUB REDEVELOPMENT
PEAK PMF FLOOD DEPTHS & LEVELS**



Flood Depth (m)

0 to 0.01
0.01 to 0.1
0.1 to 0.3
0.3 to 0.5
0.5 to 1
> 1

- Major Flood Level Contours (1 m Spacing)
- Minor Flood Level Contours (0.5 m Spacing)
- Stormwater Network
- Subject Site
- Cadastral Boundaries

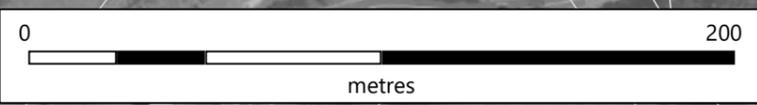
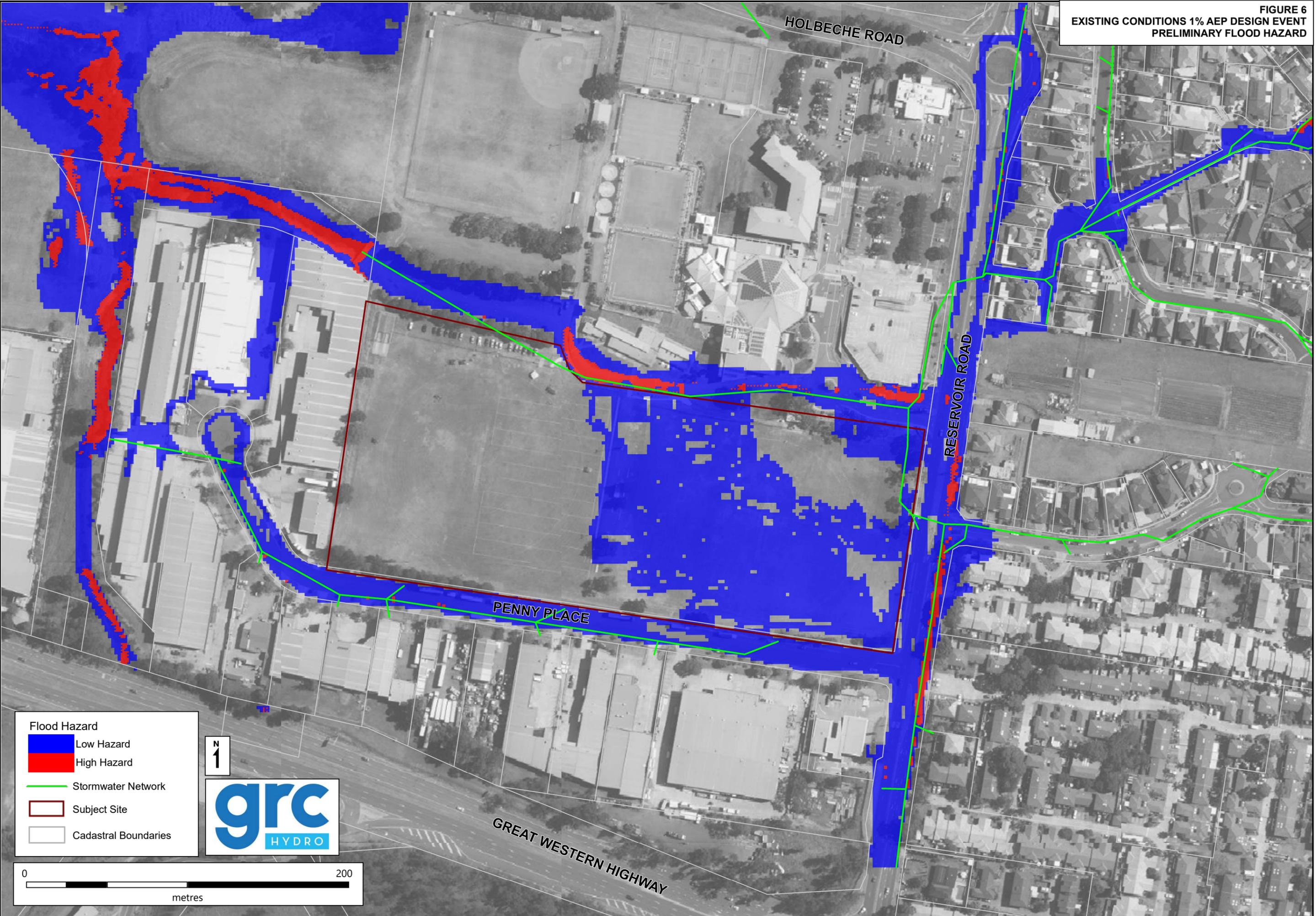


FIGURE 6
EXISTING CONDITIONS 1% AEP DESIGN EVENT
PRELIMINARY FLOOD HAZARD



Flood Hazard

- Low Hazard
- High Hazard

Stormwater Network

Subject Site

Cadastral Boundaries

