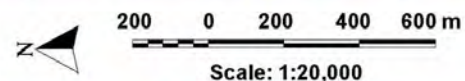
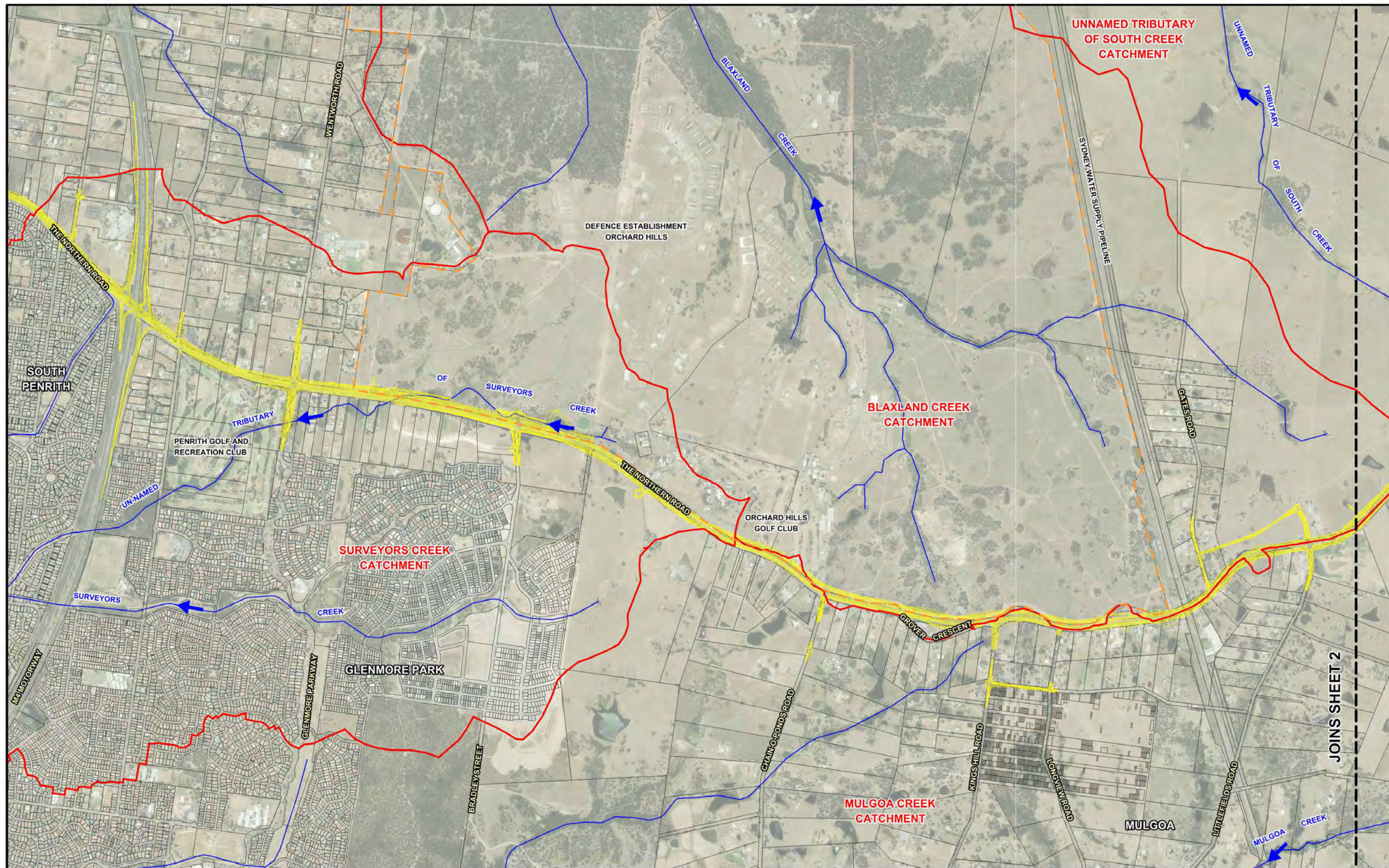


# FIGURES





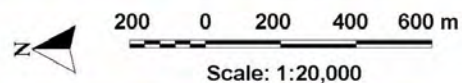
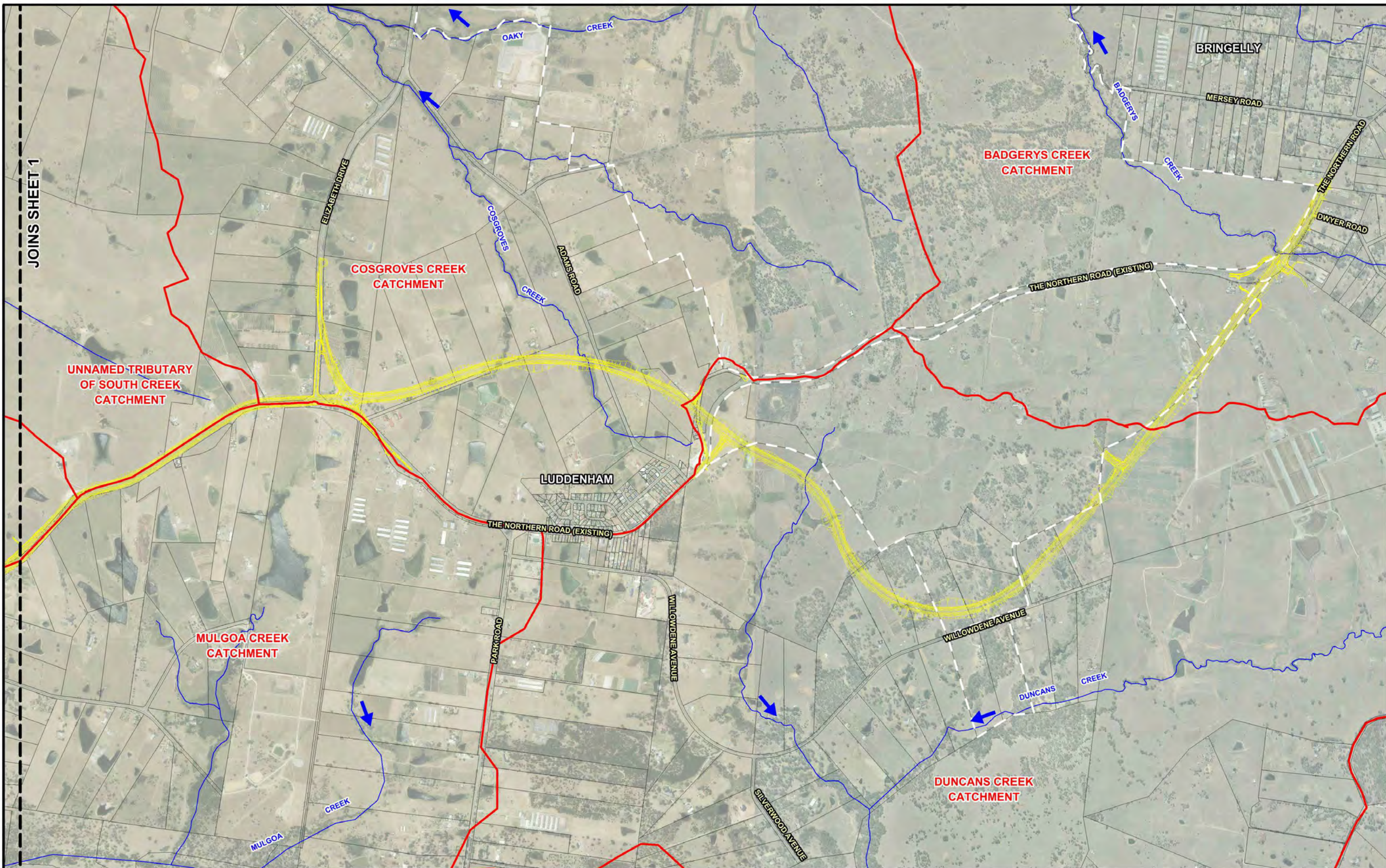
- LEGEND**
- Catchment Boundary
  - - - Defence Restricted Area Boundary
  - Design Strings

**THE NORTHERN ROAD UPGRADE  
FLOOD RISK ASSESSMENT**

Figure 1.1  
Sheet 1 of 2

LOCATION AND CATCHMENT PLAN





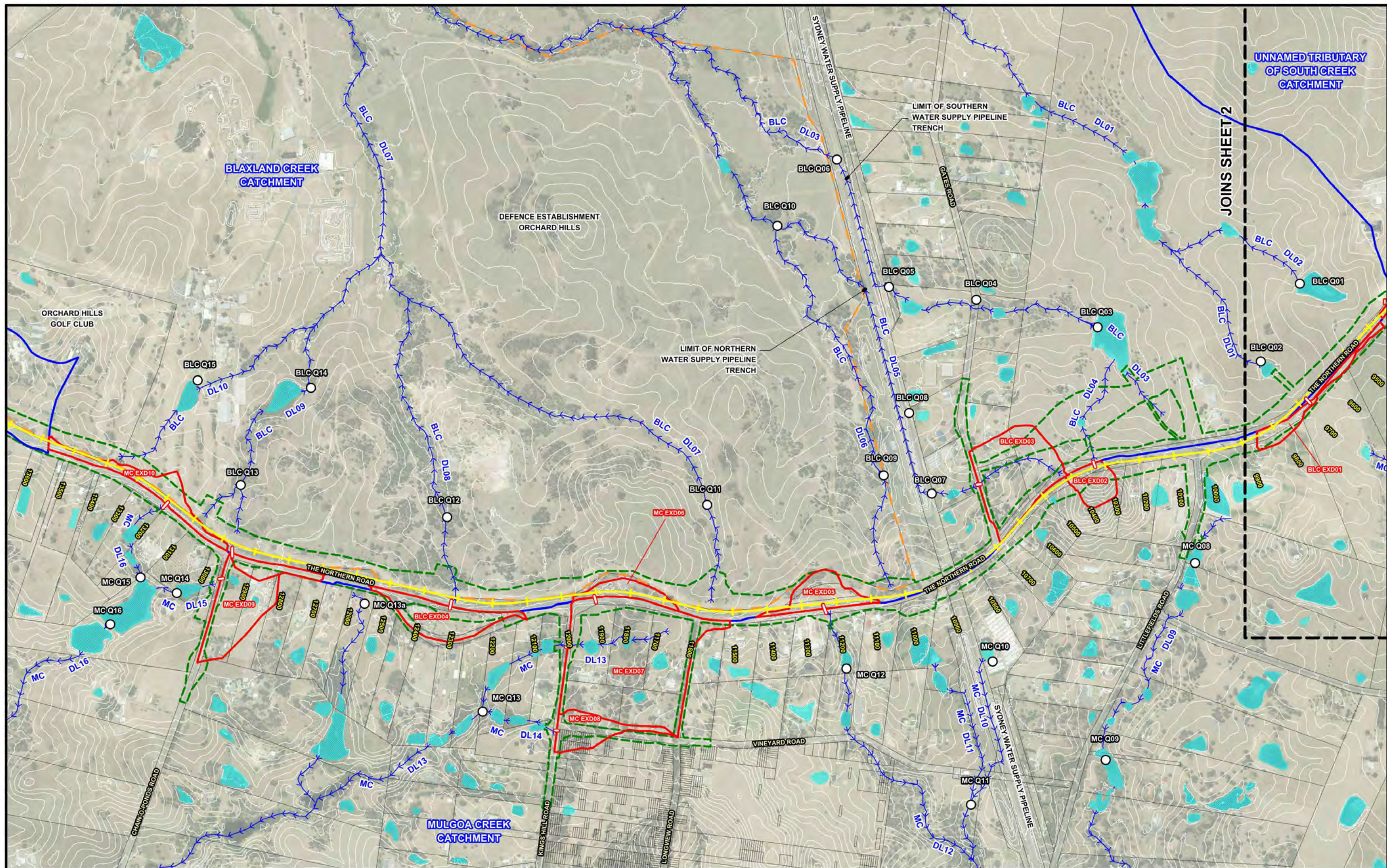
- LEGEND**
- Catchment Boundary
  - Proposed Western Sydney Airport Boundary
  - Design Strings

**THE NORTHERN ROAD UPGRADE  
FLOOD RISK ASSESSMENT**

Figure 1.1  
Sheet 2 of 2

LOCATION AND CATCHMENT PLAN





Scale: 1:10,000

MC EXD05  
Existing Transverse Drainage Structure and Identifier

Design Road Control String and Chainage

Existing Dam

Existing Drainage Lines

#### LEGEND

MC EXD05  
Extent of Catchment Draining into Existing Transverse Drainage Structure and Identifier

BLCQ12  
Peak Flow Location and Identifier (Refer Table D1 of Appendix D)

Defence Restricted Area Boundary

Project Boundary

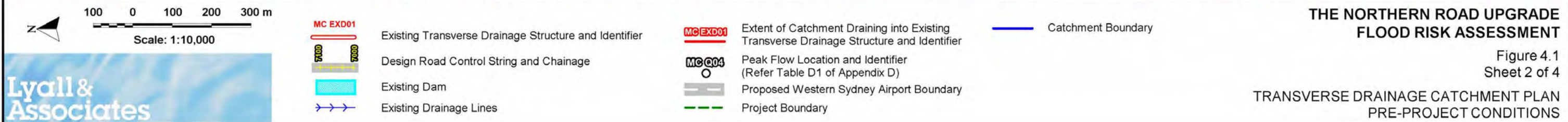
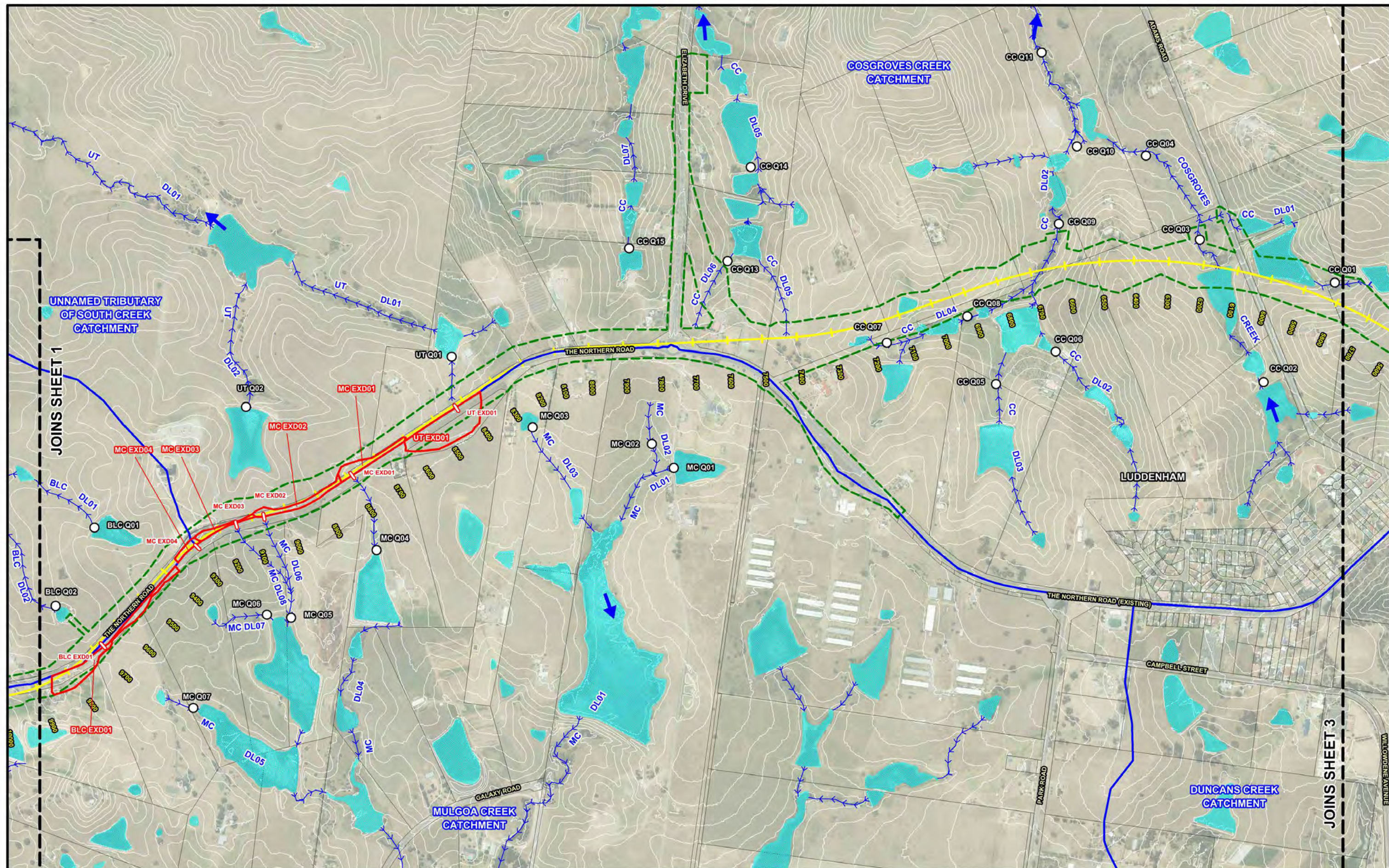
Catchment Boundary

#### THE NORTHERN ROAD UPGRADE FLOOD RISK ASSESSMENT

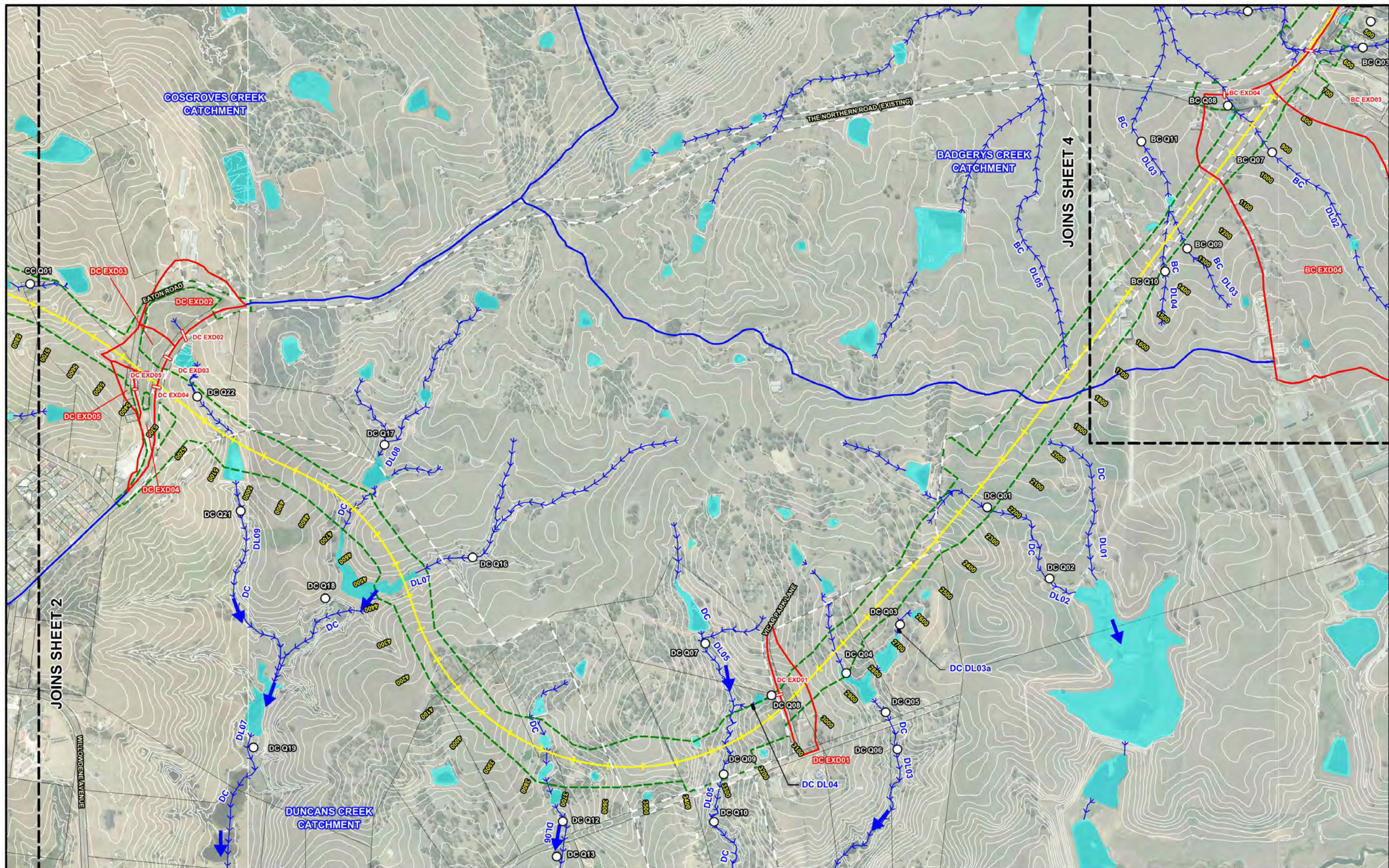
Figure 4.1  
Sheet 1 of 4

TRANSVERSE DRAINAGE CATCHMENT PLAN  
PRE-PROJECT CONDITIONS









100 0 100 200 300 m  
Scale: 1:10,000

**DC EXD03**  
Existing Transverse Drainage Structure and Identifier

**2200 2100**  
Design Road Control String and Chainage

**Existing Dam**

**Existing Drainage Lines**

#### LEGEND

**DC EXD03**  
Extent of Catchment Draining into Existing Transverse Drainage Structure and Identifier

**DC Q02**  
Peak Flow Location and Identifier (Refer Table D1 of Appendix D)

**Proposed Western Sydney Airport Boundary**

**Project Boundary**

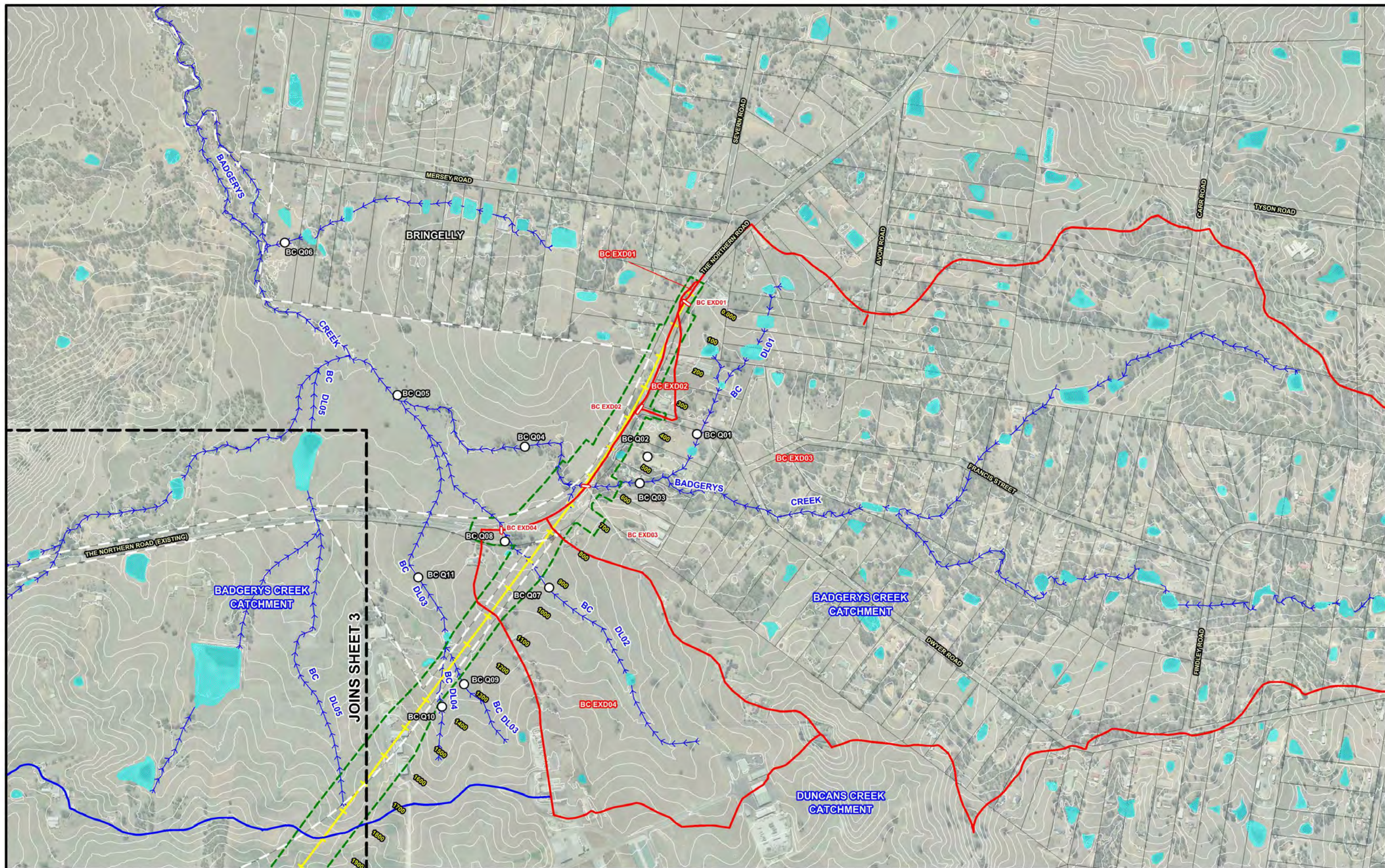
**Catchment Boundary**

#### THE NORTHERN ROAD UPGRADE FLOOD RISK ASSESSMENT

Figure 4.1  
Sheet 3 of 4

TRANSVERSE DRAINAGE CATCHMENT PLAN  
PRE-PROJECT CONDITIONS





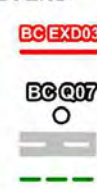
100 0 100 200 300 m

Scale: 1:10,000



BC EXD03 Existing Transverse Drainage Structure and Identifier  
 Design Road Control String and Chainage  
 Existing Dam  
 Existing Drainage Lines

#### LEGEND



BC EXD03 Extent of Catchment Draining into Existing Transverse Drainage Structure and Identifier  
 BC Q07 Peak Flow Location and Identifier (Refer Table D1 of Appendix D)  
 Proposed Western Sydney Airport Boundary  
 Project Boundary

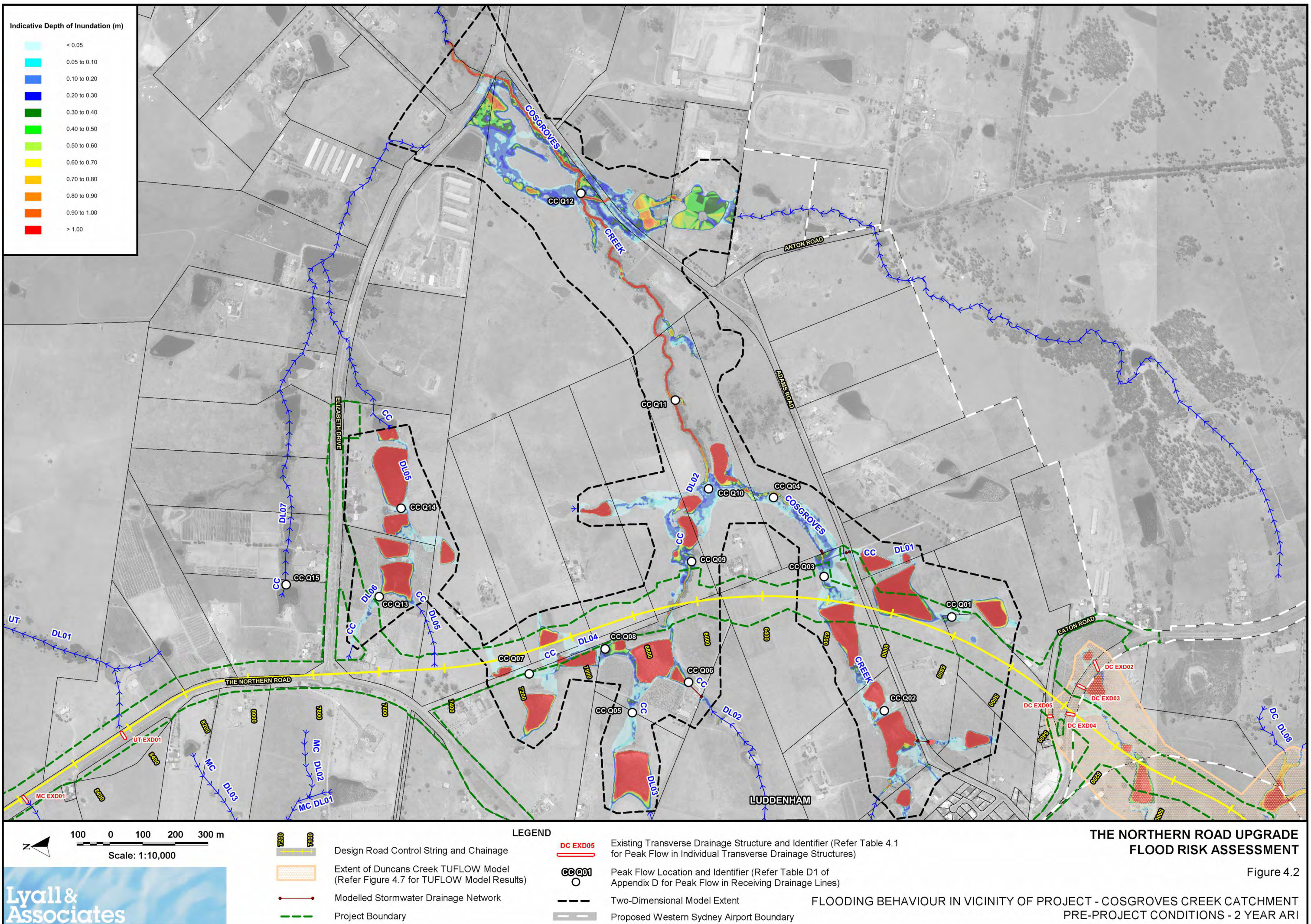
Catchment Boundary

#### THE NORTHERN ROAD UPGRADE FLOOD RISK ASSESSMENT

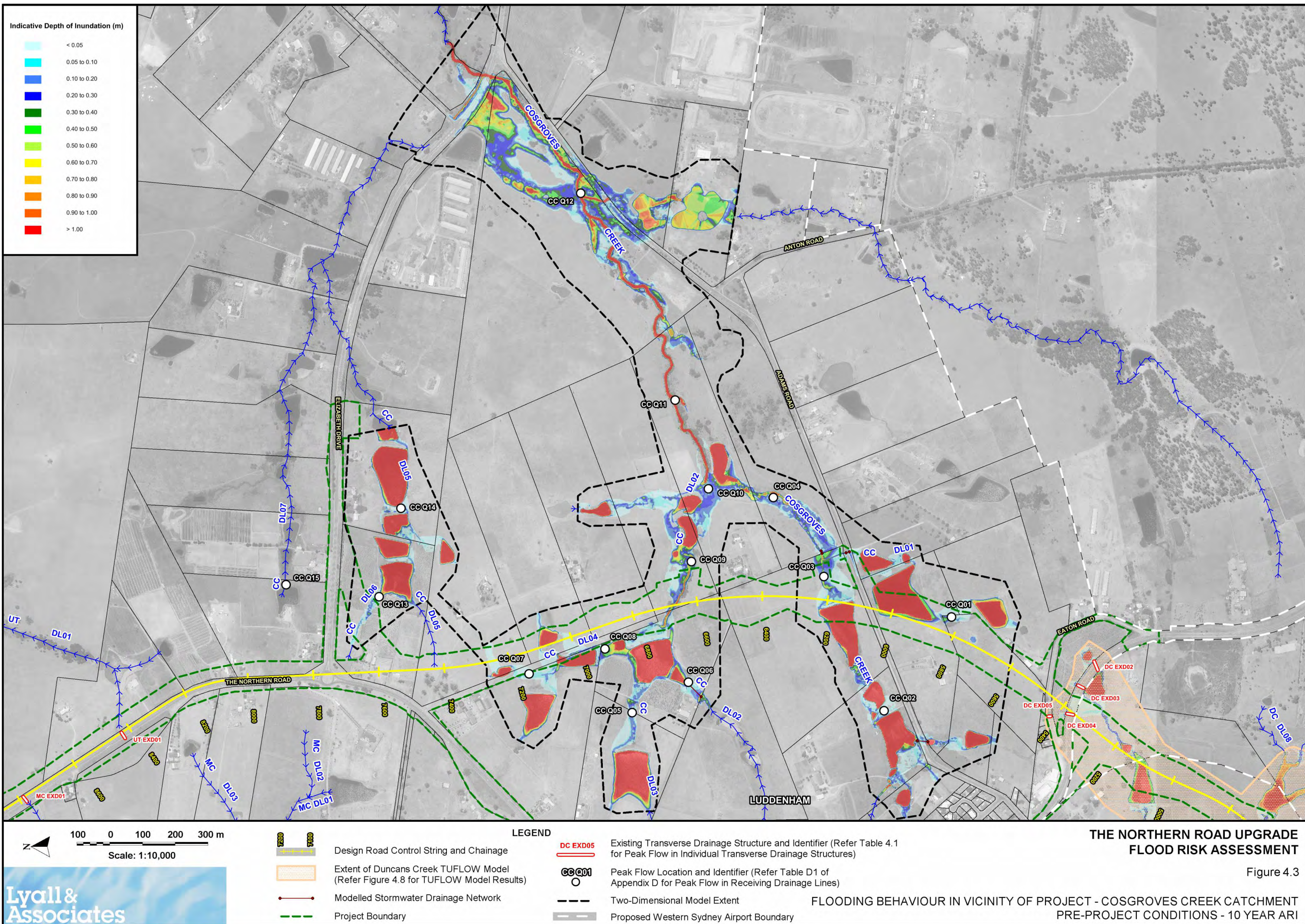
Figure 4.1  
Sheet 4 of 4

TRANSVERSE DRAINAGE CATCHMENT PLAN  
PRE-PROJECT CONDITIONS

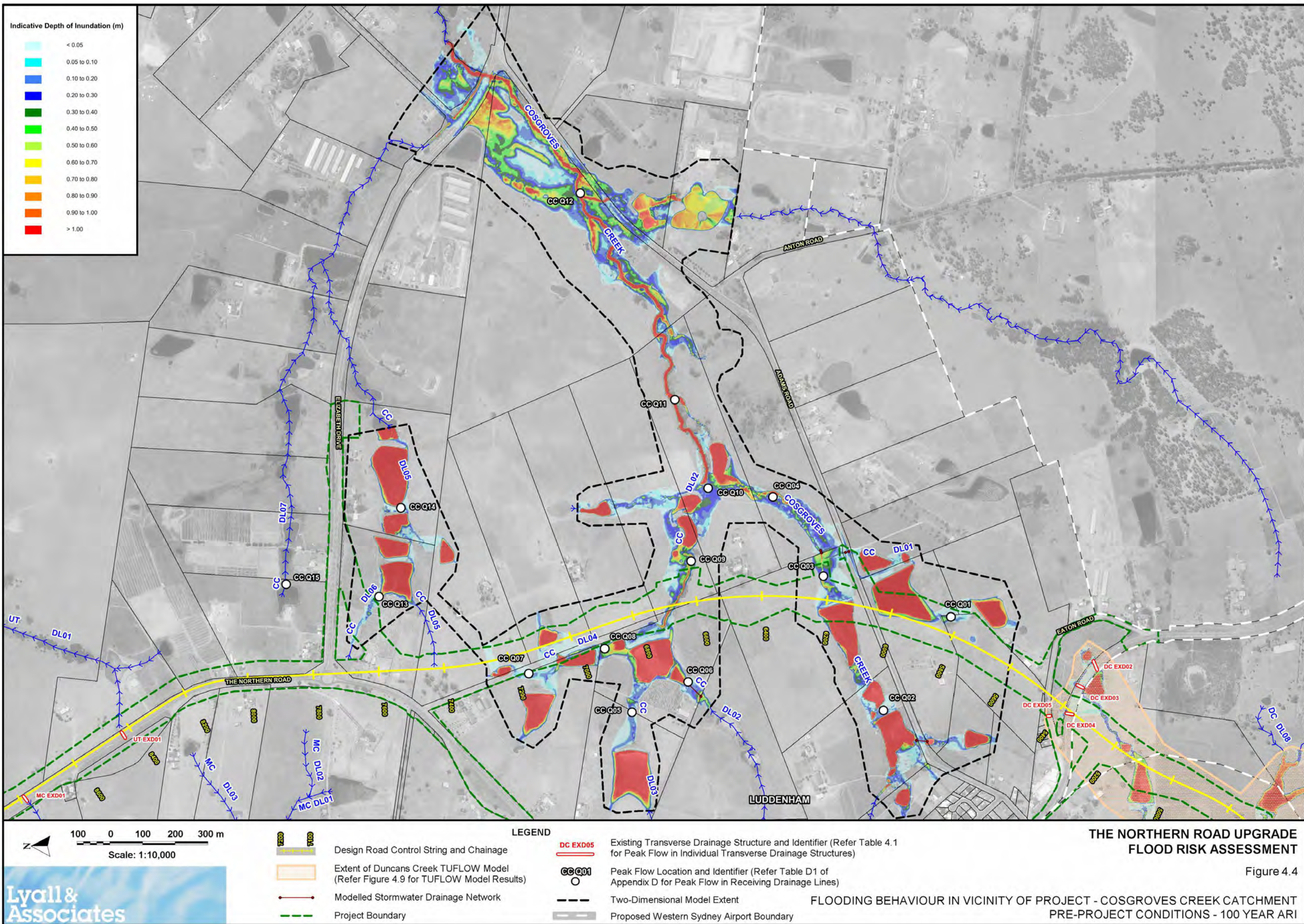




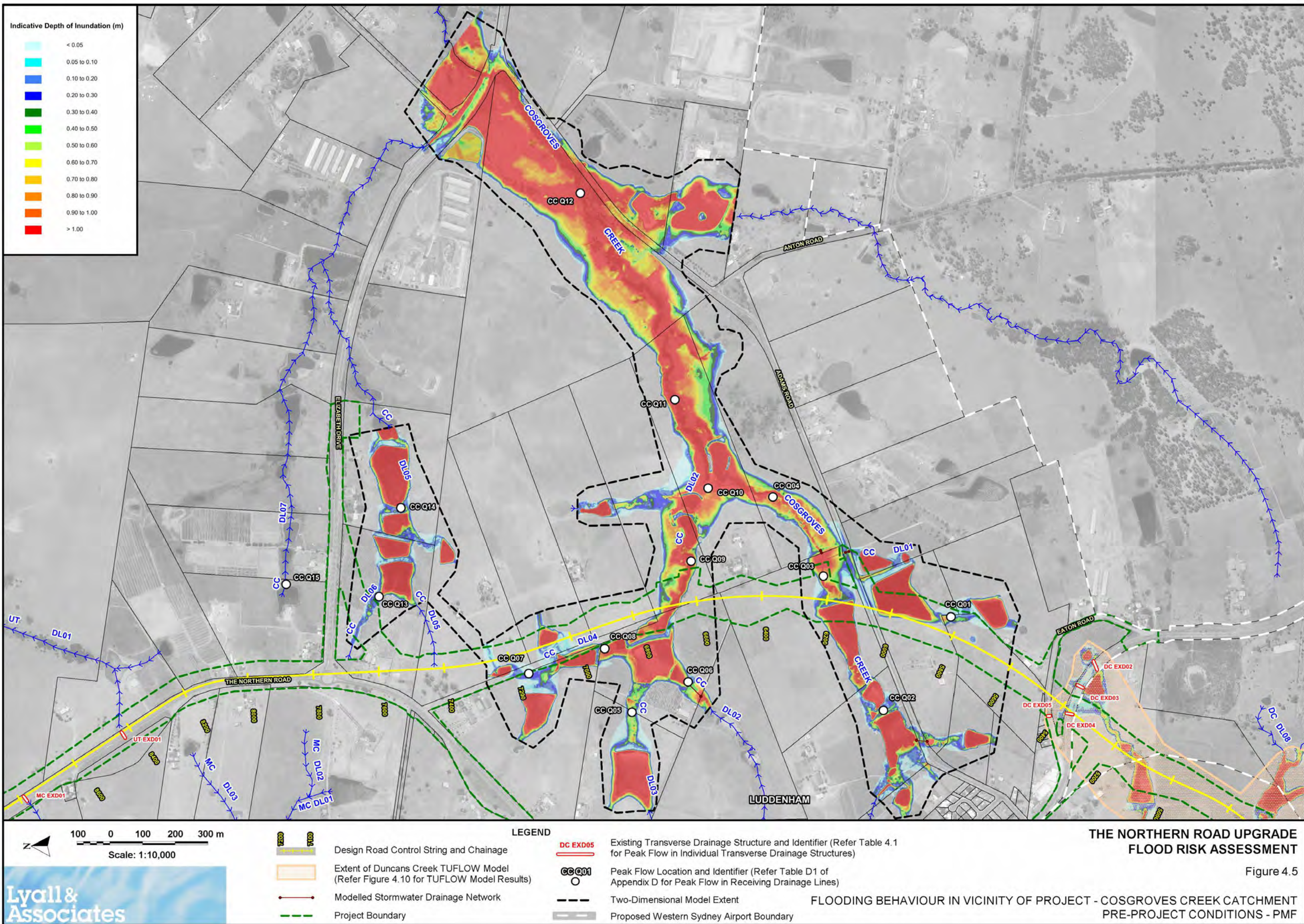




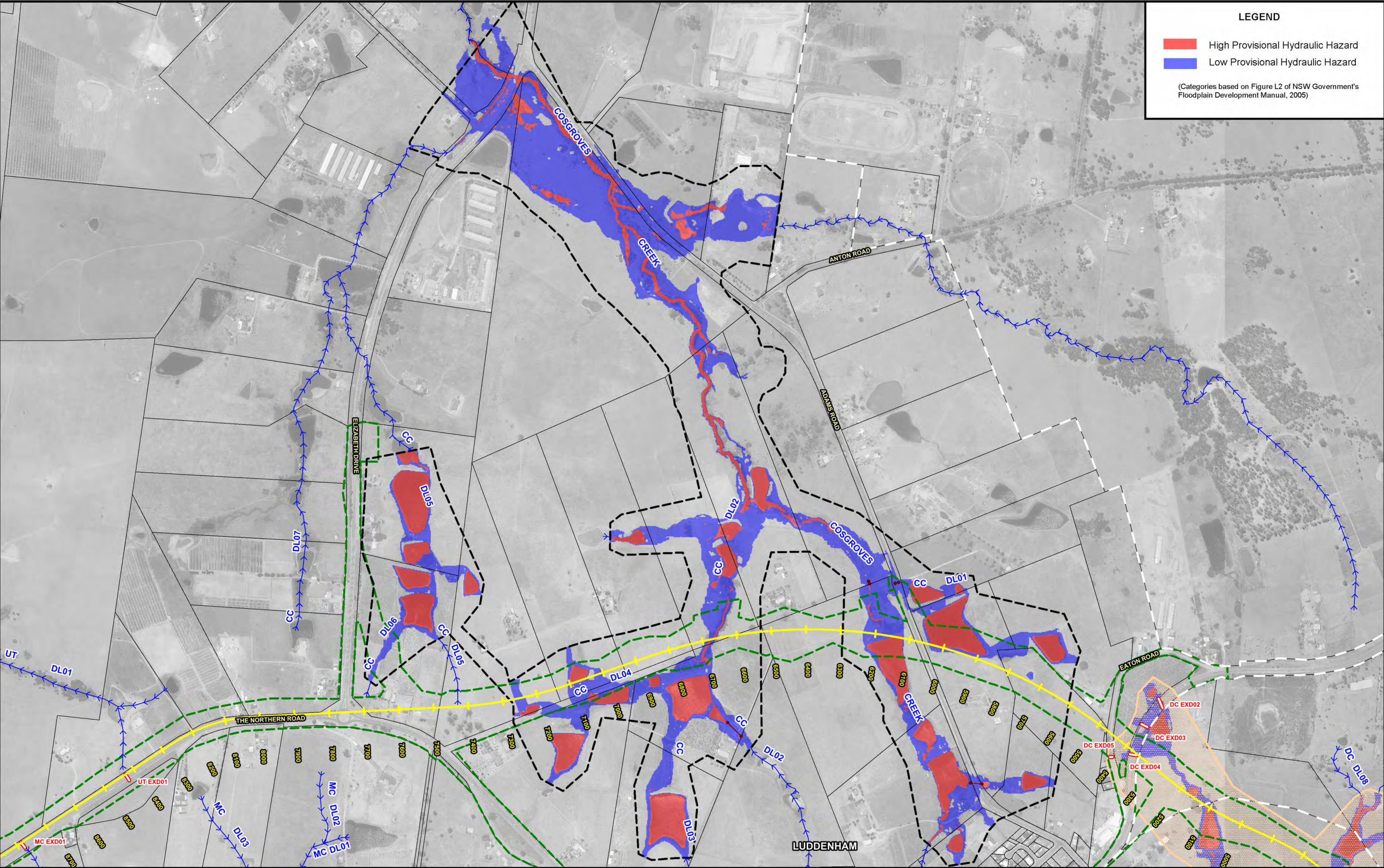












**LEGEND**

High Provisional Hydraulic Hazard

Low Provisional Hydraulic Hazard

(Categories based on Figure L2 of NSW Government's Floodplain Development Manual, 2005)

100 0 100 200 300 m

Scale: 1:10,000

**Lyall & Associates**

**LEGEND**

Design Road Control String and Chainage

Extent of Duncans Creek TUFLOW Model (Refer Figure 4.11 for TUFLOW Model Results)

Modelled Stormwater Drainage Network

Project Boundary

DC EXD05 Existing Transverse Drainage Structure and Identifier (Refer Table 4.1 for Peak Flow in Individual Transverse Drainage Structures)

Two-Dimensional Model Extent

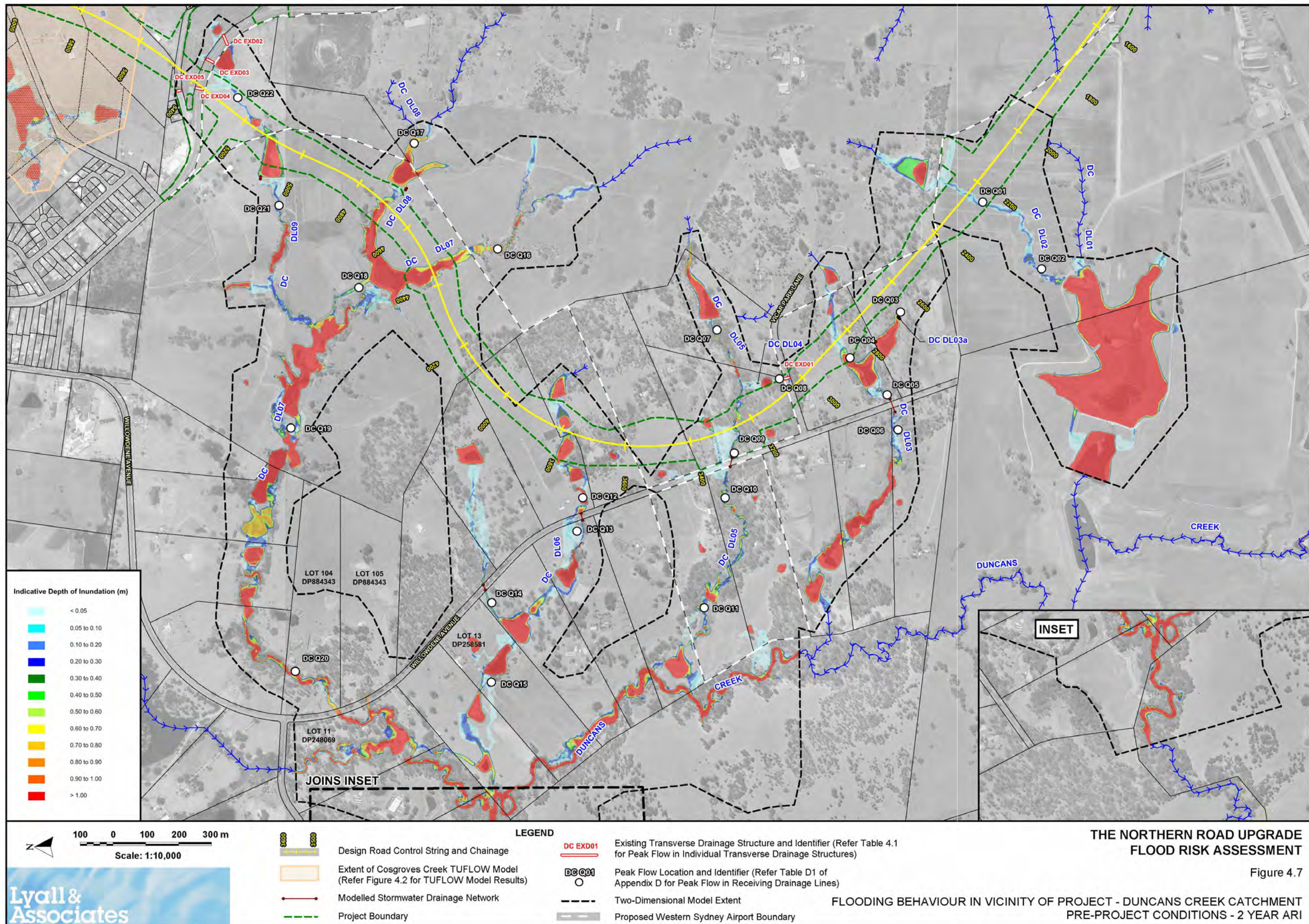
Proposed Western Sydney Airport Boundary

**THE NORTHERN ROAD UPGRADE FLOOD RISK ASSESSMENT**

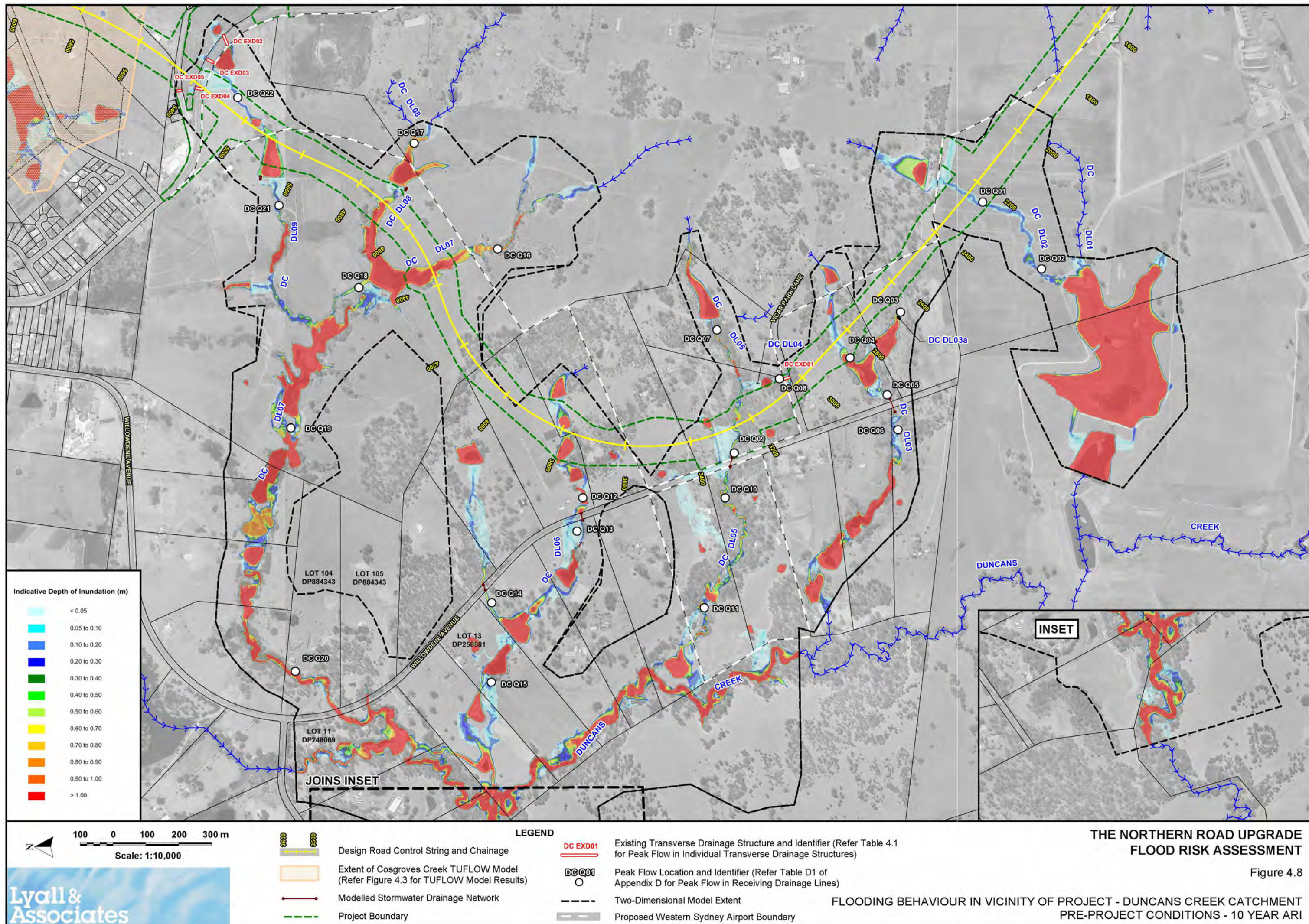
Figure 4.6

PROVISIONAL FLOOD HAZARD IN VICINITY OF PROJECT - COSGROVES CREEK CATCHMENT PRE-PROJECT CONDITIONS - 100 YEAR ARI

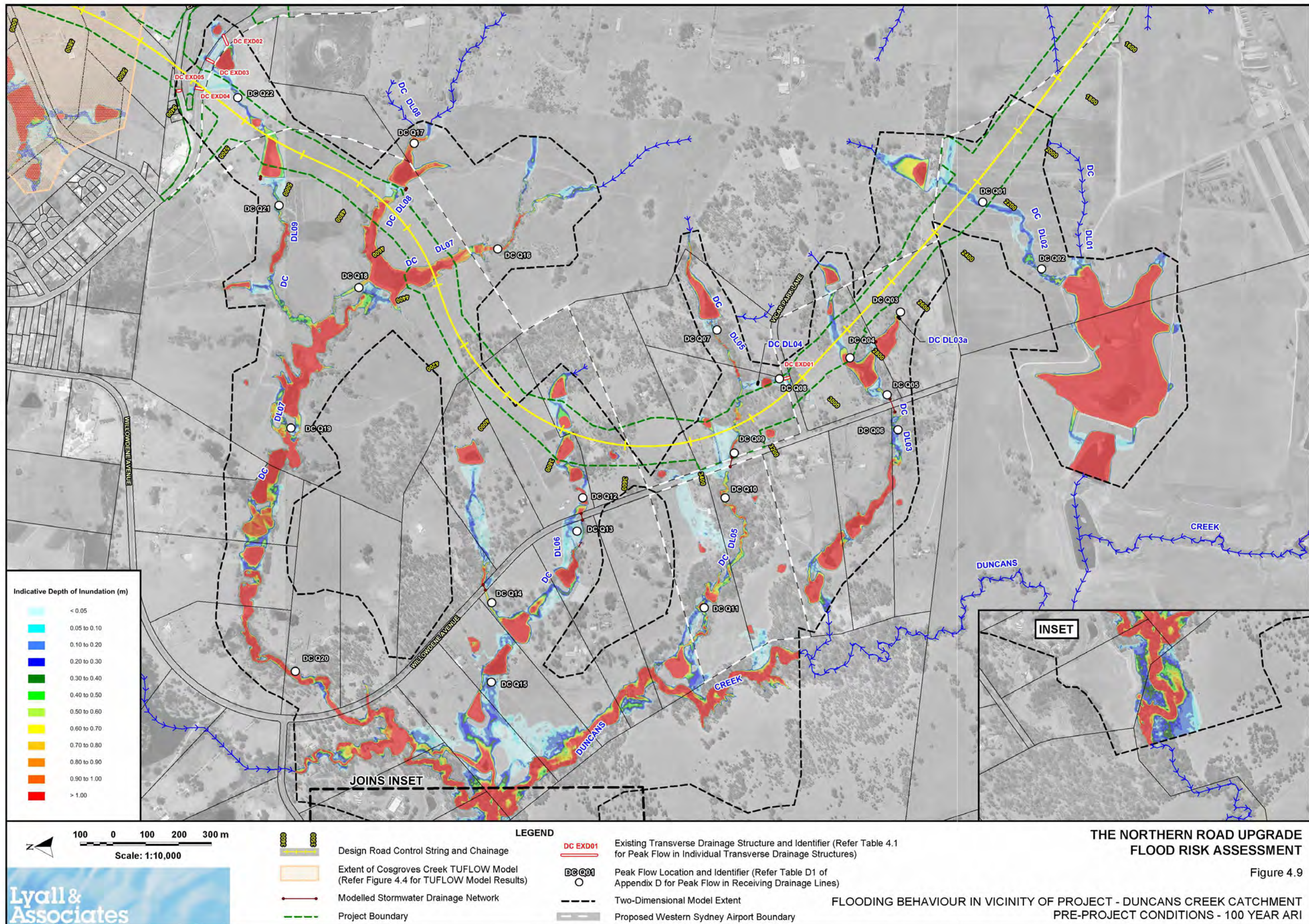




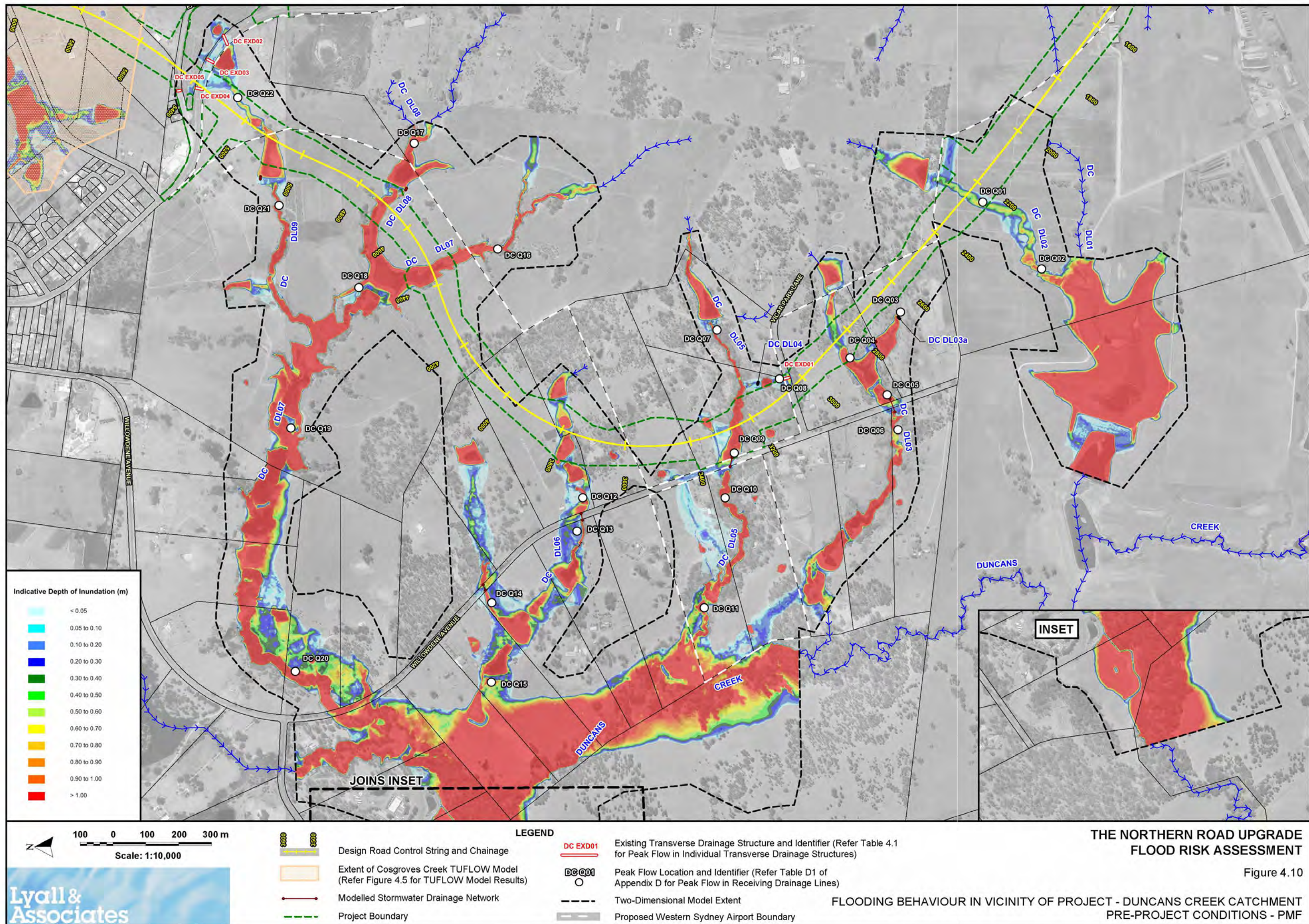




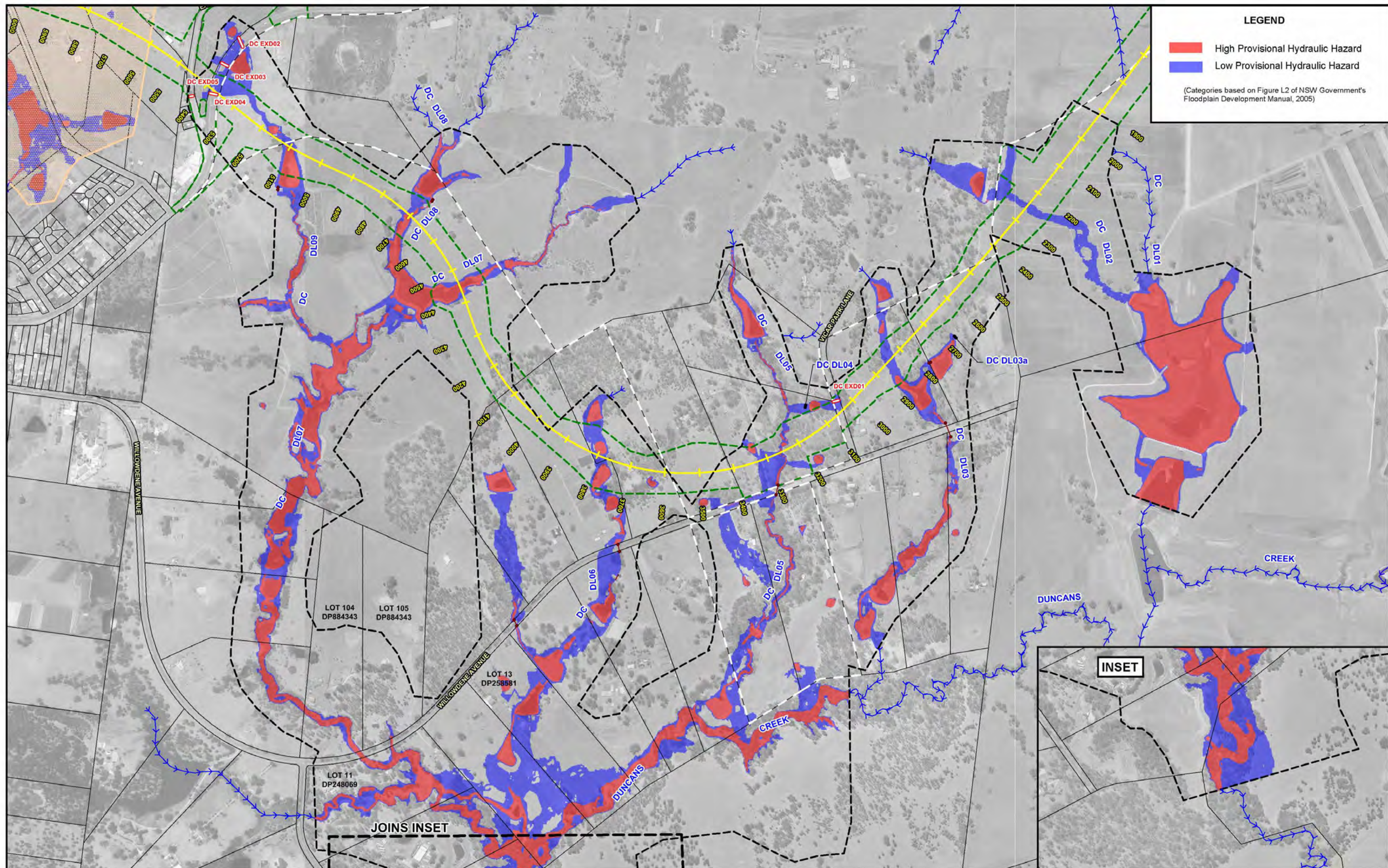












**LEGEND**

High Provisional Hydraulic Hazard

Low Provisional Hydraulic Hazard

(Categories based on Figure L2 of NSW Government's Floodplain Development Manual, 2005)

100 0 100 200 300 m

Scale: 1:10,000



**LEGEND**

Design Road Control String and Chainage

Extent of Cosgroves Creek TUFLOW Model (Refer Figure 4.6 for TUFLOW Model Results)

Modelled Stormwater Drainage Network

Project Boundary

**LEGEND**

DC EXD01 Existing Transverse Drainage Structure and Identifier (Refer Table 4.1 for Peak Flow in Individual Transverse Drainage Structures)

Two-Dimensional Model Extent

Proposed Western Sydney Airport Boundary

**THE NORTHERN ROAD UPGRADE  
FLOOD RISK ASSESSMENT**

Figure 4.11

PROVISIONAL FLOOD HAZARD IN VICINITY OF PROJECT - DUNCANS CREEK CATCHMENT  
PRE-PROJECT CONDITIONS - 100 YEAR ARI



