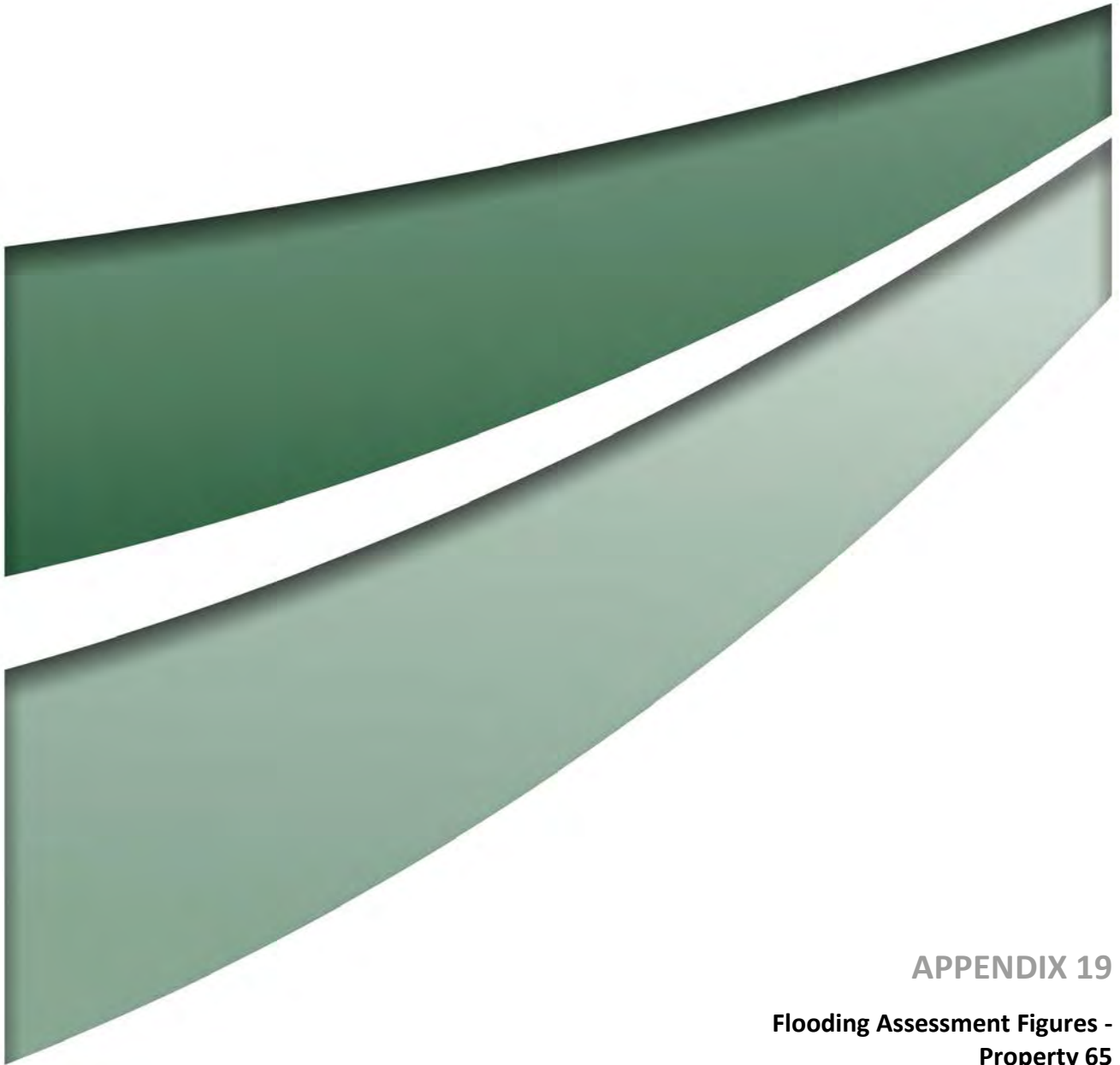




APPENDIX 19

**Flooding Assessment Figures -
Property 65**

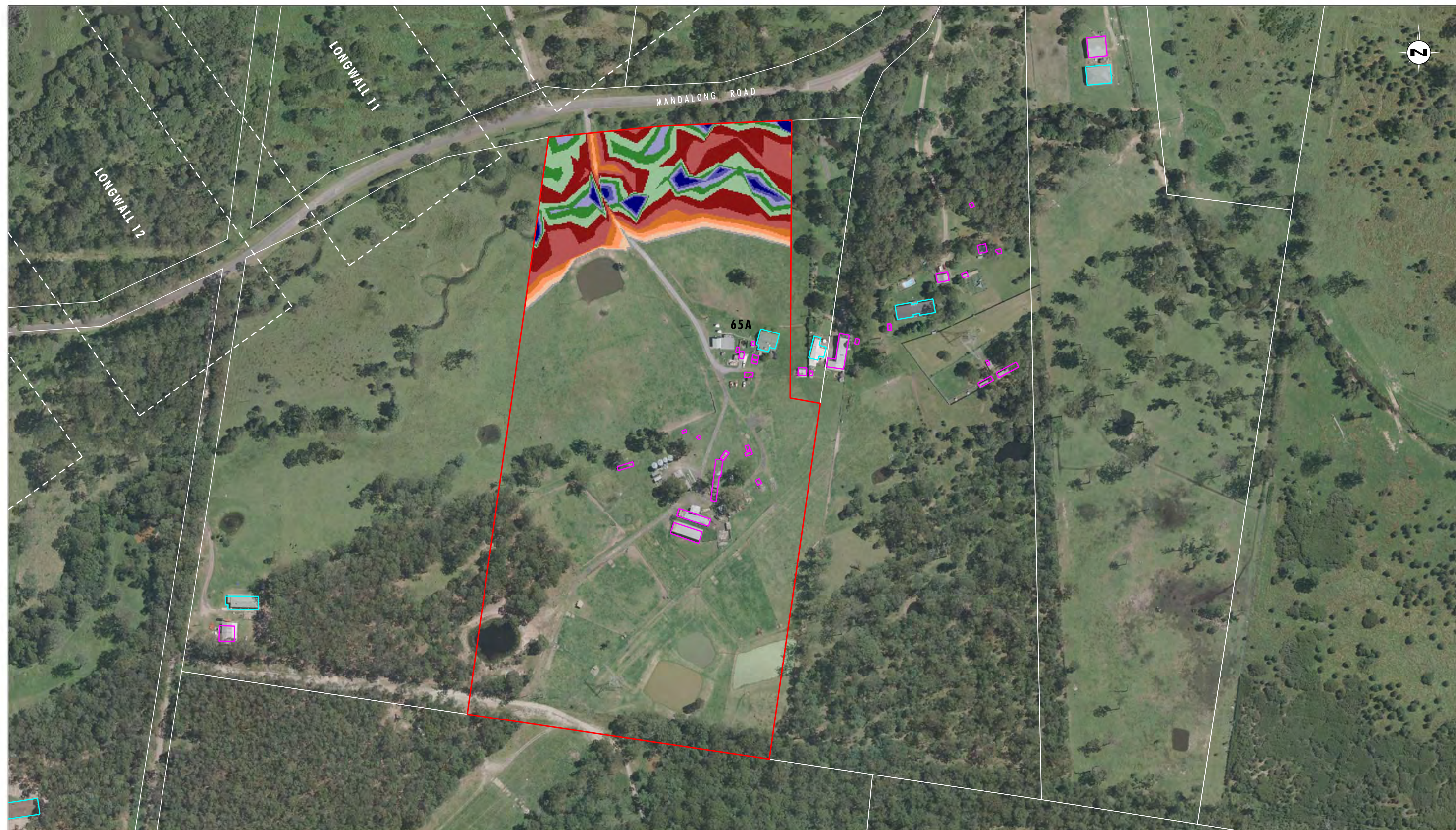


Image Source: Centennial Mandalong Pty Ltd (2009) - Aerial Photograph
Data Source: Centennial Mandalong Pty Ltd, LPI - Cadastral Boundaries

0 50 100 150m
1:3000 (A3)

Legend		Water Depth (m)	
 	Property 65	 	Range [0.001 : 0.100]
 	Longwall Locations	 	Range [0.100 : 0.300]
 	Dwelling	 	Range [0.300 : 0.500]
 	Other Structure	 	Range [0.500 : 0.700]
 	Cadastral Boundary	 	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]

File Name (A3): R02/Appendix19/3685_393.dgn
20160830 14.48

FIGURE 1

Property 65 - 100 year ARI Storm Event:
Maximum Flood Depth Pre Mining Landform

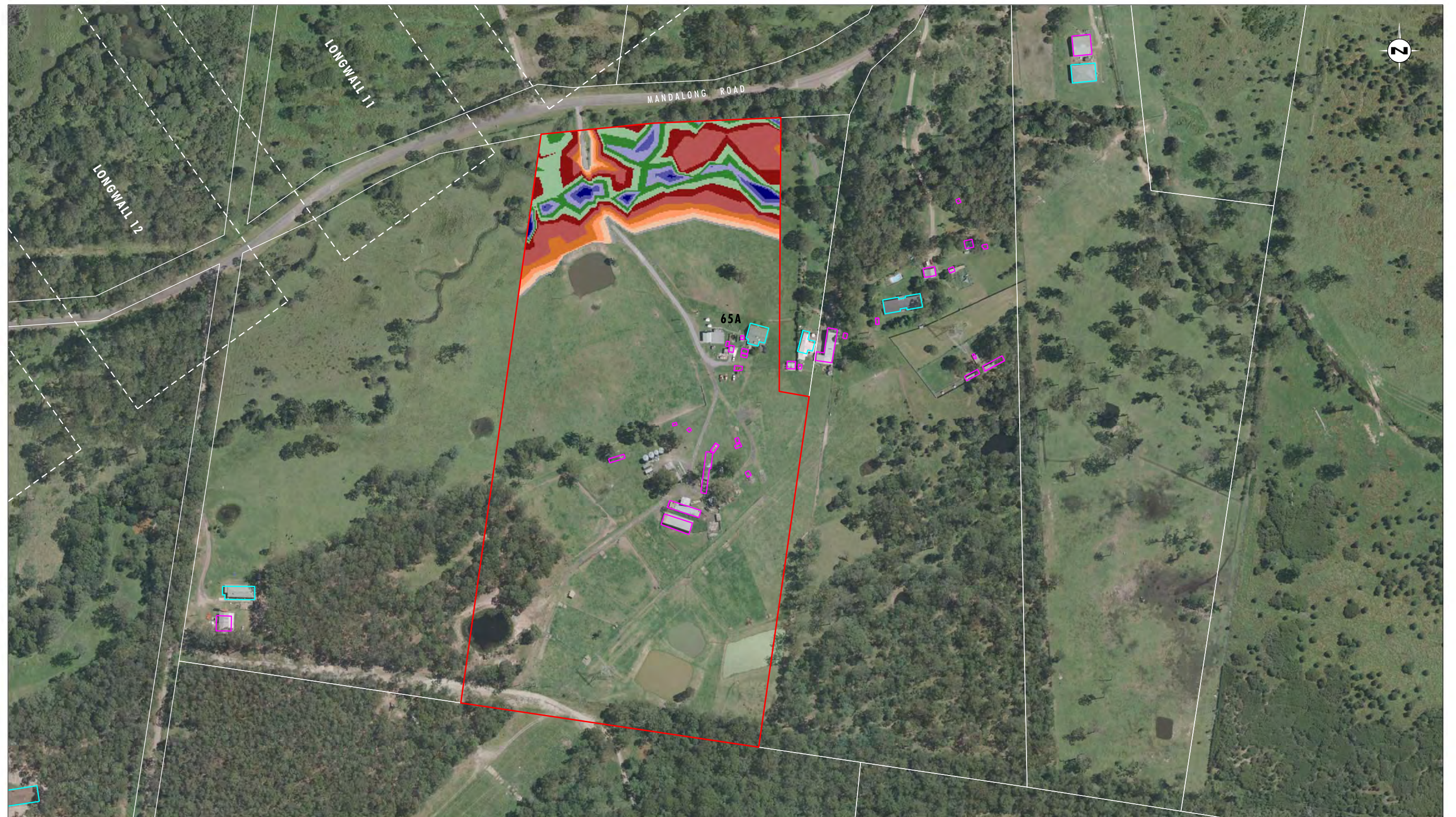


Image Source: Centennial Mandalong Pty Ltd (2009) - Aerial Photograph
Data Source: Centennial Mandalong Pty Ltd, LPI - Cadastral Boundaries

0 50 100 150m
1:3000 (A3)

Legend		Water Depth (m)	
	Property 65		Range [0.001 : 0.100]
	Longwall Locations		Range [0.100 : 0.300]
	Dwelling		Range [0.300 : 0.500]
	Other Structure		Range [0.500 : 0.700]
	Cadastral Boundary		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]

File Name (A3): R02/Appendix19/3685_394.dgn
20160830 14.50

FIGURE 2

Property 65 - 100 year ARI Storm Event:
Maximum Flood Depth Post Mining Landform
(to Longwall 23)

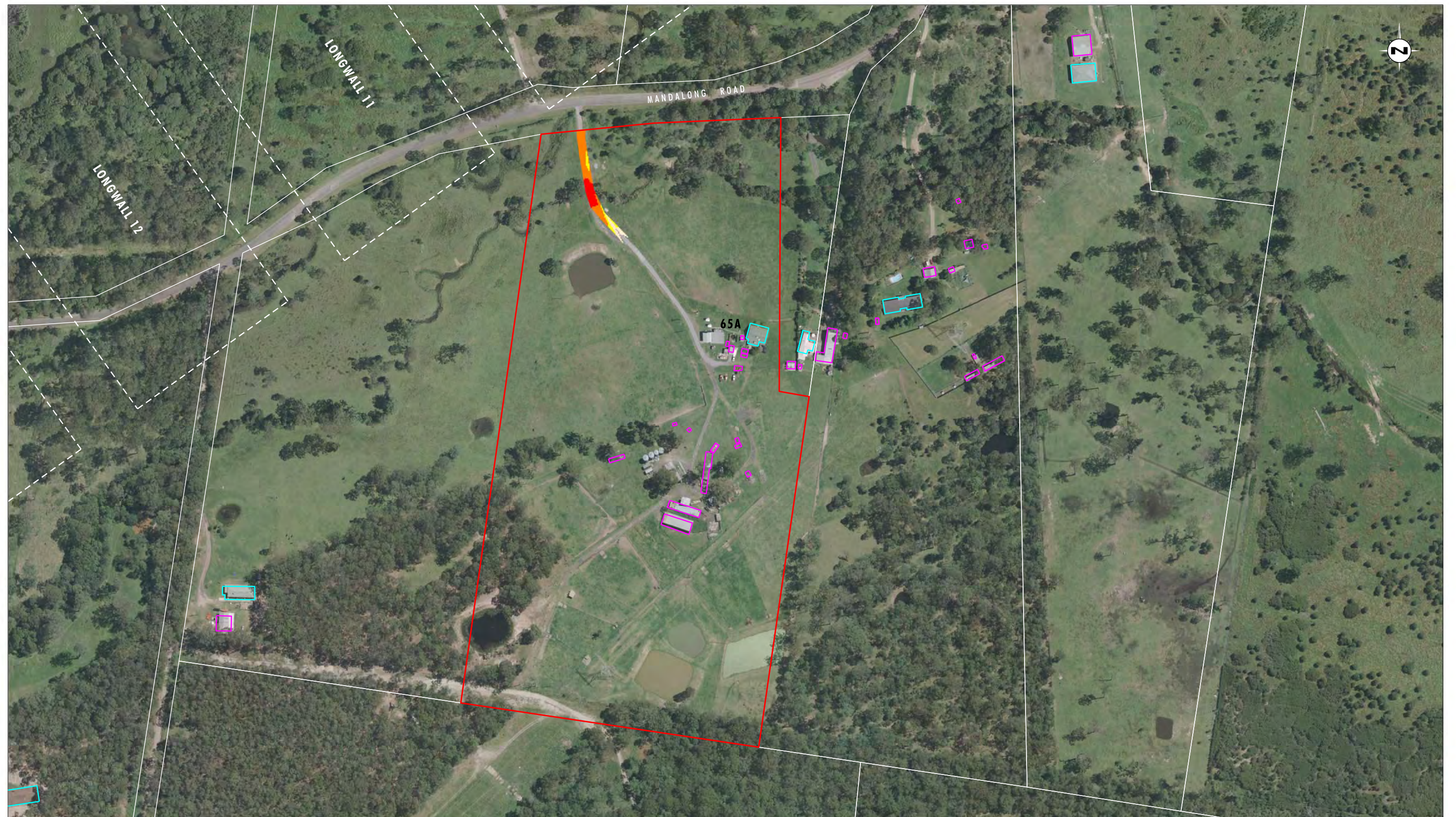


Image Source: Centennial Mandalong Pty Ltd (2009) - Aerial Photograph
 Data Source: Centennial Mandalong Pty Ltd, LPI - Cadastral Boundaries
 Note: Flood Hazard shown for access and dwellings only

0 50 100 150m
 1:3000 (A3)

Legend

- Property 65
- Longwall Locations
- Dwelling
- Other Structure
- Cadastral Boundary

Hazard Category

- Low Hazard - Unclassified hazard
- Low Hazard - Vehicles unstable
- High Hazard - Wading unsafe
- High Hazard - Damage to light structures

FIGURE 3

Property 65 - 100 year ARI Storm Event:
 Maximum Flood Hazard Categories Pre Mining Landform

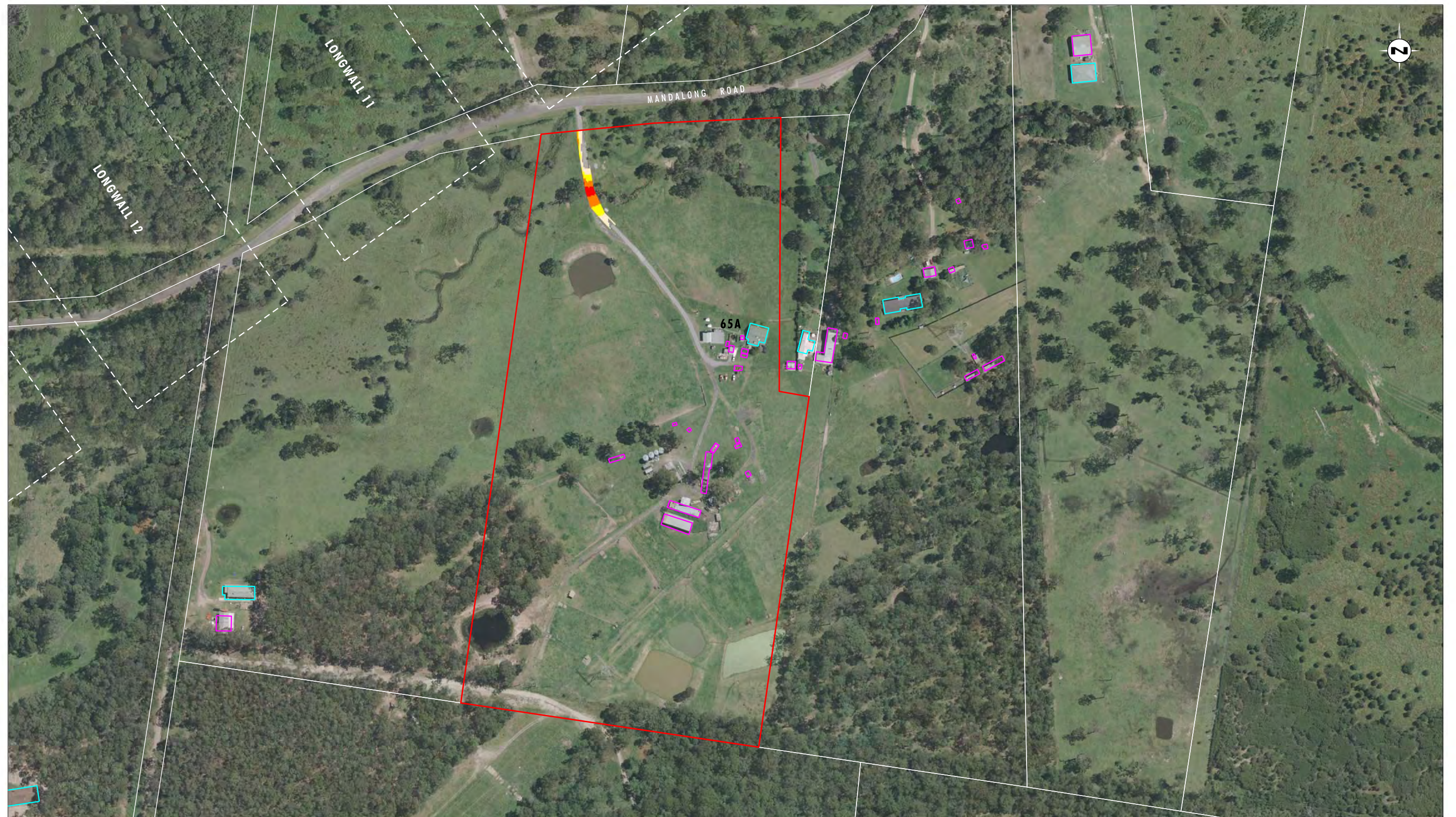


Image Source: Centennial Mandalong Pty Ltd (2009) - Aerial Photograph
 Data Source: Centennial Mandalong Pty Ltd, LPI - Cadastral Boundaries
 Note: Flood Hazard shown for access and dwellings only

0 50 100 150m
 1:3000 (A3)

Legend	
	Property 65
	Longwall Locations
	Dwelling
	Other Structure
	Cadastral Boundary
Hazard Category	
	Low Hazard - Unclassified hazard
	Low Hazard - Vehicles unstable
	High Hazard - Wading unsafe
	High Hazard - Damage to light structures

File Name (A3): R02/Appendix19/3685_396.dgn
 20160830 14.53

FIGURE 4
 Property 65 - 100 year ARI Storm Event:
 Maximum Flood Hazard Categories Post Mining Landform
 (to Longwall 23)



Image Source: Centennial Mandalong Pty Ltd (2009) - Aerial Photograph
Data Source: Centennial Mandalong Pty Ltd, LPI - Cadastral Boundaries

0 50 100 150m
1:3000 (A3)

Legend		Water Depth (m)			
	Property 65		Range [0.001 : 0.100]		Range [0.900 : 1.100]
	Longwall Locations		Range [0.100 : 0.300]		Range [1.100 : 1.300]
	Dwelling		Range [0.300 : 0.500]		Range [1.300 : 1.500]
	Other Structure		Range [0.500 : 0.700]		Range [1.500 : 1.700]
	Cadastral Boundary		Range [0.700 : 0.900]		Range [1.700 : 1.900]
					Range [> 1.900]

File Name (A3): R02/Appendix19/3685_397.dgn
20160830 14.54

FIGURE 5

Property 65 - 1 year ARI Storm Event:
Maximum Flood Depth Pre Mining Landform



Image Source: Centennial Mandalong Pty Ltd (2009) - Aerial Photograph
Data Source: Centennial Mandalong Pty Ltd, LPI - Cadastral Boundaries

0 50 100 150m
1:3000 (A3)

Legend		Water Depth (m)	
	Property 65		Range [0.001 : 0.100]
	Longwall Locations		Range [0.100 : 0.300]
	Dwelling		Range [0.300 : 0.500]
	Other Structure		Range [0.500 : 0.700]
	Cadastral Boundary		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]

File Name (A3): R02/Appendix19/3685_398.dgn
20160830 14.55

FIGURE 6

Property 65 - 1 year ARI Storm Event:
Maximum Flood Depth Post Mining Landform
(to Longwall 23)

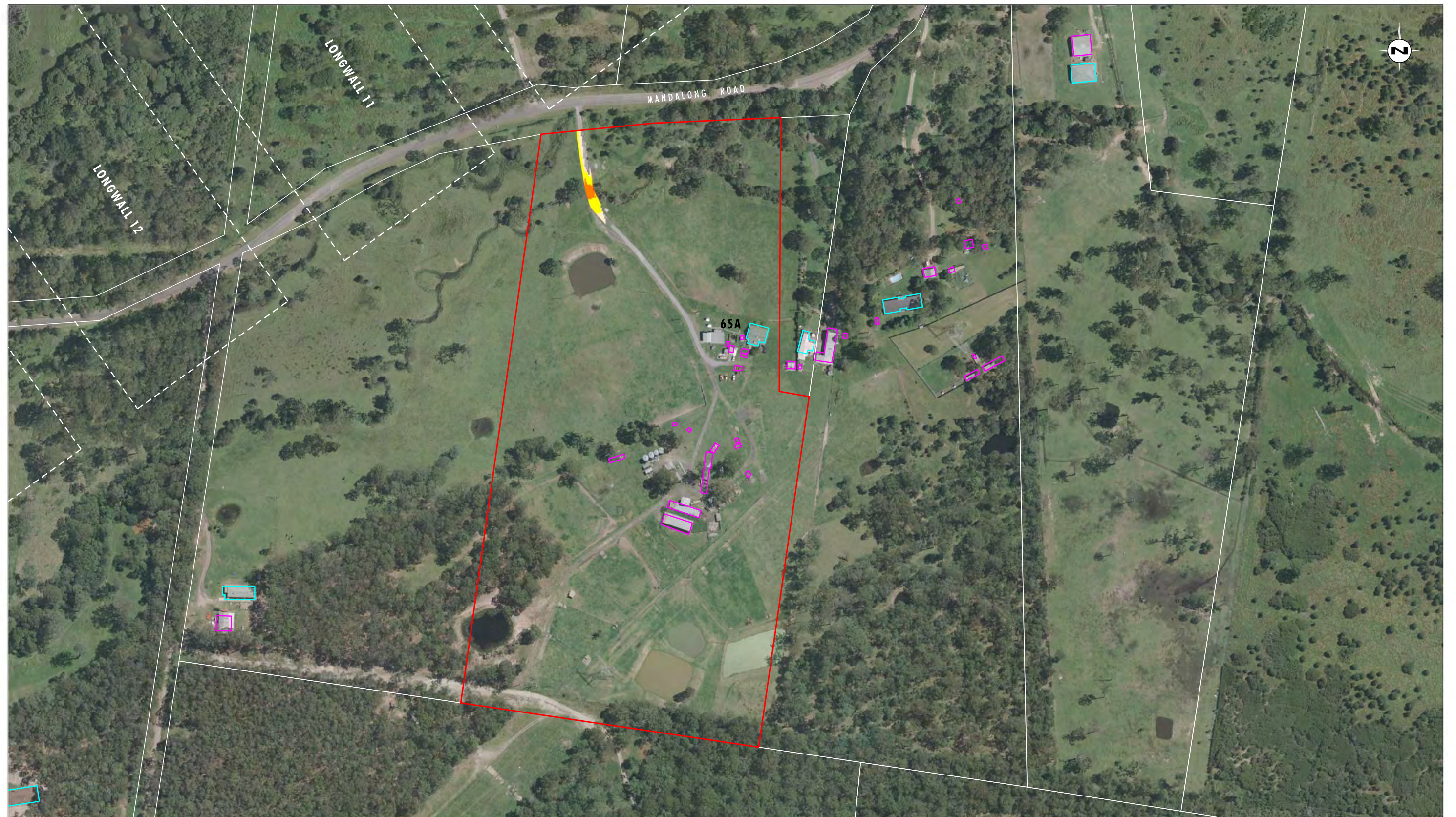


Image Source: Centennial Mandalong Pty Ltd (2009) - Aerial Photograph
 Data Source: Centennial Mandalong Pty Ltd, LPI - Cadastral Boundaries
 Note: Flood Hazard shown for access and dwellings only

0 50 100 150m
 1:3000 (A3)

Legend	
	Property 65
	Longwall Locations
	Dwelling
	Other Structure
	Cadastral Boundary
Hazard Category	
	Low Hazard - Unclassified hazard
	Low Hazard - Vehicles unstable
	High Hazard - Wading unsafe
	High Hazard - Damage to light structures

FIGURE 7

Property 65 - 1 year ARI Storm Event:
 Maximum Flood Hazard Categories Pre Mining Landform

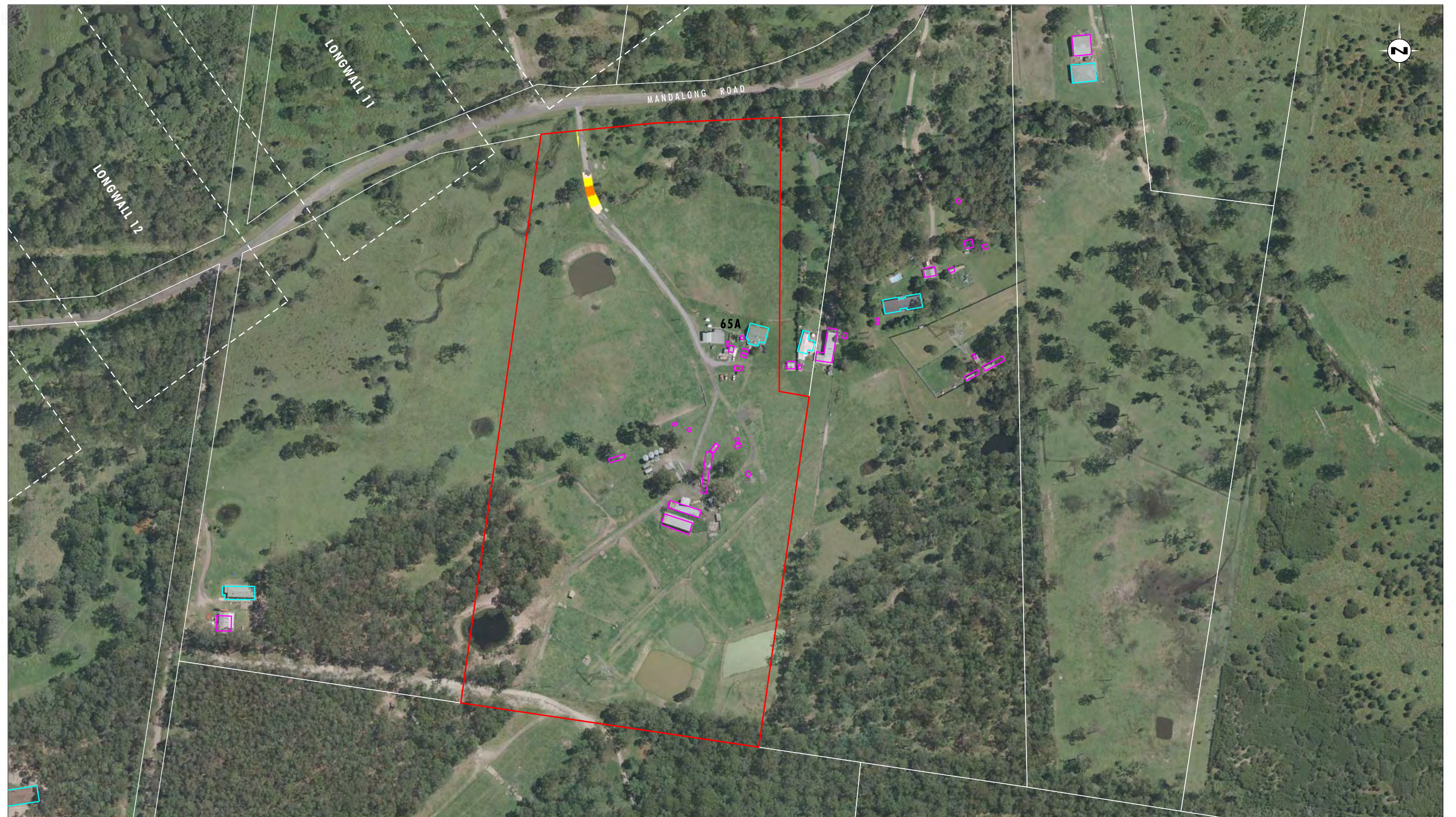
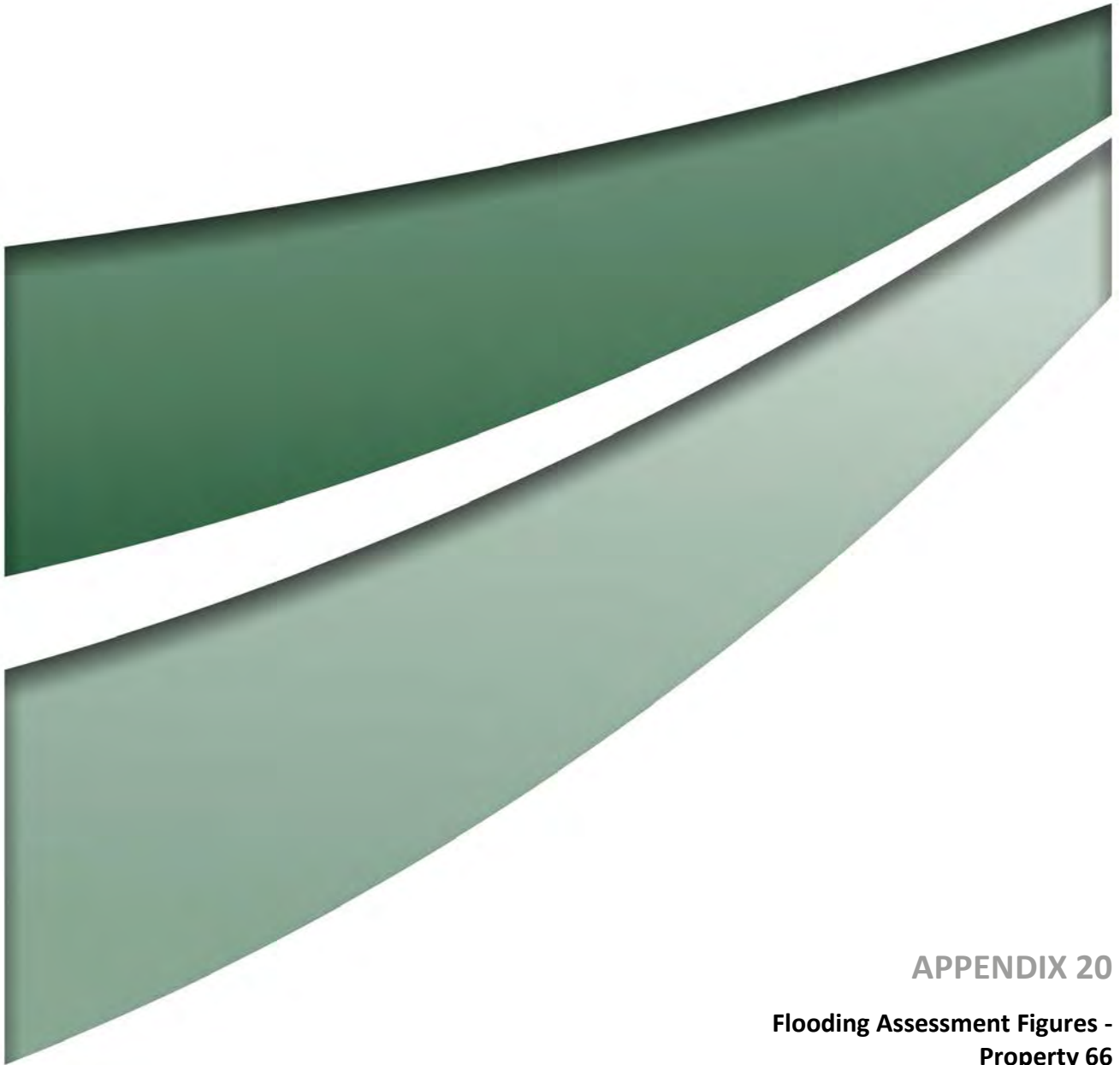


Image Source: Centennial Mandalong Pty Ltd (2009) - Aerial Photograph
 Data Source: Centennial Mandalong Pty Ltd, LPI - Cadastral Boundaries
 Note: Flood Hazard shown for access and dwellings only

0 50 100 150m
 1:3000 (A3)

Legend	
	Property 65
	Longwall Locations
	Dwelling
	Other Structure
	Cadastral Boundary
Hazard Category	
	Low Hazard - Unclassified hazard
	Low Hazard - Vehicles unstable
	High Hazard - Wading unsafe
	High Hazard - Damage to light structures

FIGURE 8
 Property 65 - 1 year ARI Storm Event:
 Maximum Flood Hazard Categories Post Mining Landform
 (to Longwall 23)



APPENDIX 20

**Flooding Assessment Figures -
Property 66**



Image Source: Centennial Mandalong Pty Ltd (2009) - Aerial Photograph
Data Source: Centennial Mandalong Pty Ltd, LPI - Cadastral Boundaries

0 50 100 150m
1:3000 (A3)

Legend		Water Depth (m)	
	Property 66		Range [0.001 : 0.100]
	Longwall Locations		Range [0.100 : 0.300]
	Dwelling		Range [0.300 : 0.500]
	Other Structure		Range [0.500 : 0.700]
	Cadastral Boundary		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 : 2.100]

File Name (A3): R02/Appendix20/3685_401.dgn
20160830 15:00

FIGURE 1
Property 66 - 100 year ARI Storm Event:
Maximum Flood Depth Pre Mining Landform



Image Source: Centennial Mandalong Pty Ltd (2009) - Aerial Photograph
Data Source: Centennial Mandalong Pty Ltd, LPI - Cadastral Boundaries

0 50 100 150m
1:3000 (A3)

Legend		Water Depth (m)	
	Property 66		Range [0.001 : 0.100]
	Longwall Locations		Range [0.100 : 0.300]
	Dwelling		Range [0.300 : 0.500]
	Other Structure		Range [0.500 : 0.700]
	Cadastral Boundary		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 : 2.100]

File Name (A3): R02/Appendix20/3685_402.dgn
20160830 15.02

FIGURE 2
Property 66 - 100 year ARI Storm Event:
Maximum Flood Depth Post Mining Landform
(to Longwall 23)



Image Source: Centennial Mandalong Pty Ltd (2009) - Aerial Photograph
Data Source: Centennial Mandalong Pty Ltd, LPI - Cadastral Boundaries

0 50 100 150 m
1:3000 (A3)

Legend		Water Depth (m)	
	Property 66		Range [0.001 : 0.100]
	Longwall Locations		Range [0.100 : 0.300]
	Dwelling		Range [0.300 : 0.500]
	Other Structure		Range [0.500 : 0.700]
	Cadastral Boundary		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]

File Name (A3): R02/Appendix20/3685_403.dgn
20160830 15.03

FIGURE 3

Property 66 - 1 year ARI Storm Event:
Maximum Flood Depth Pre Mining Landform



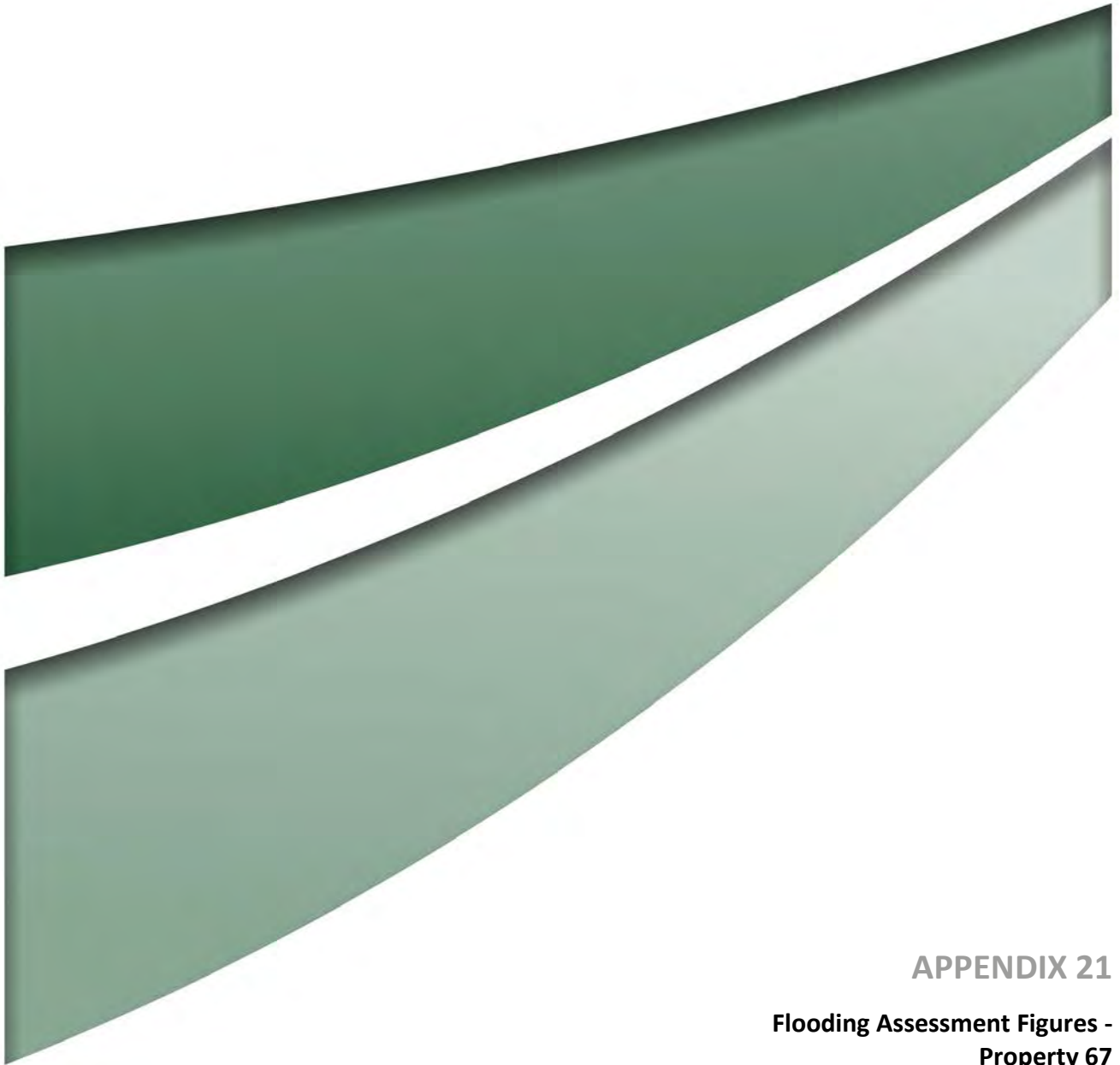
Image Source: Centennial Mandalong Pty Ltd (2009) - Aerial Photograph
Data Source: Centennial Mandalong Pty Ltd, LPI - Cadastral Boundaries

0 50 100 150 m
1:3000 (A3)

Legend		Water Depth (m)	
	Property 66		Range [0.001 : 0.100]
	Longwall Locations		Range [0.100 : 0.300]
	Dwelling		Range [0.300 : 0.500]
	Other Structure		Range [0.500 : 0.700]
	Cadastral Boundary		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]

File Name (A3): R02/Appendix20/3685_404.dgn
20160830 15.05

FIGURE 4
Property 66 - 1 year ARI Storm Event:
Maximum Flood Depth Post Mining Landform
(to Longwall 23)



APPENDIX 21

**Flooding Assessment Figures -
Property 67**

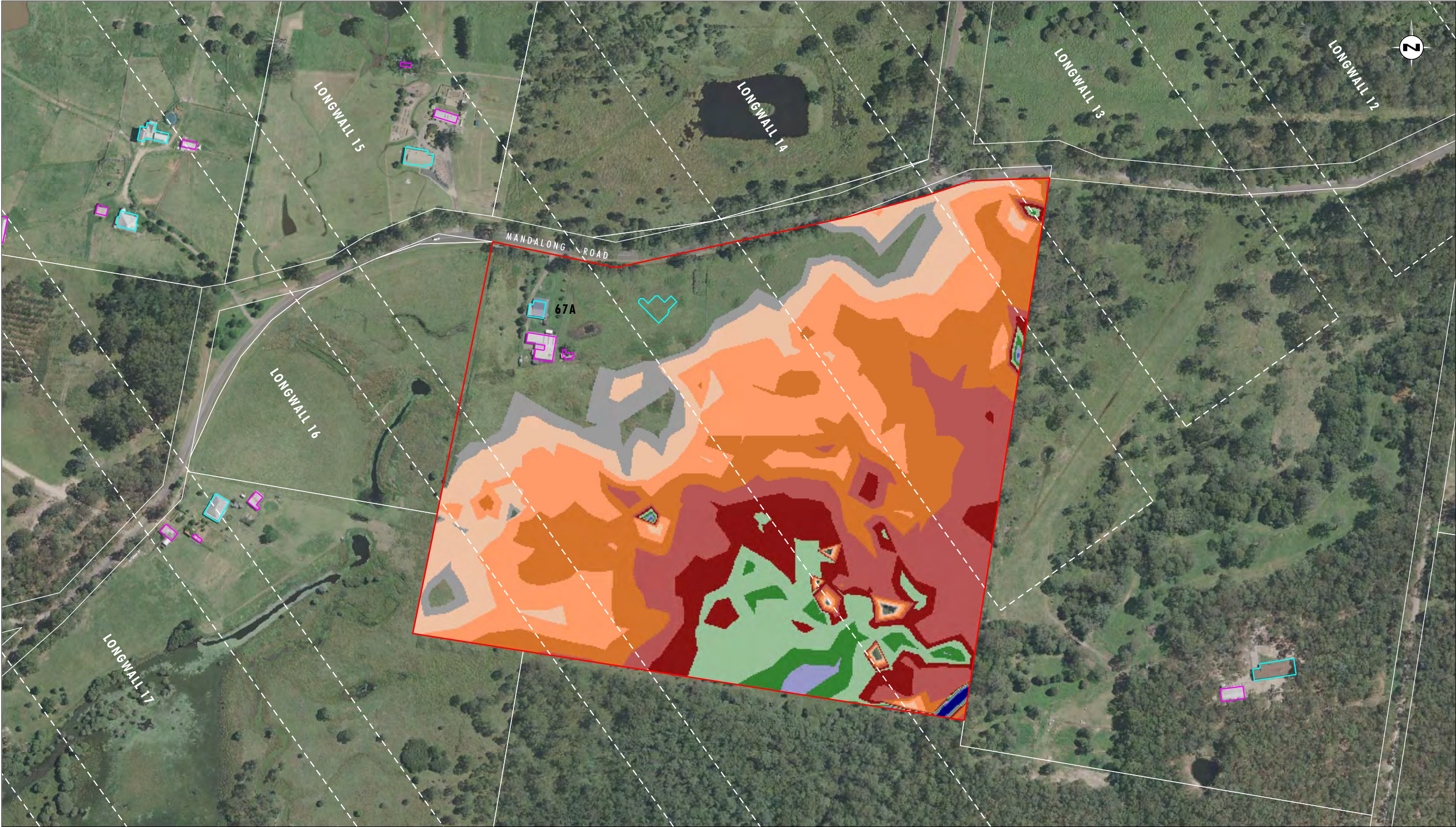


Image Source: Centennial Mandalong Pty Ltd (2009) - Aerial Photograph
Data Source: Centennial Mandalong Pty Ltd, LPI - Cadastral Boundaries

0 50 100 150 m
1:3000 (A3)

Legend

- Property 67
- Longwall Locations
- Dwelling
- Other Structure
- Cadastral Boundary

Water Depth (m)

Range [0.001 : 0.100]	Range [0.900 : 1.100]
Range [0.100 : 0.300]	Range [1.100 : 1.300]
Range [0.300 : 0.500]	Range [1.300 : 1.500]
Range [0.500 : 0.700]	Range [1.500 : 1.700]
Range [0.700 : 0.900]	Range [1.700 : 1.900]
	Range [1.900 : 2.100]

FIGURE 1

Property 67 - 100 year ARI Storm Event:
Maximum Flood Depth Pre Mining Landform

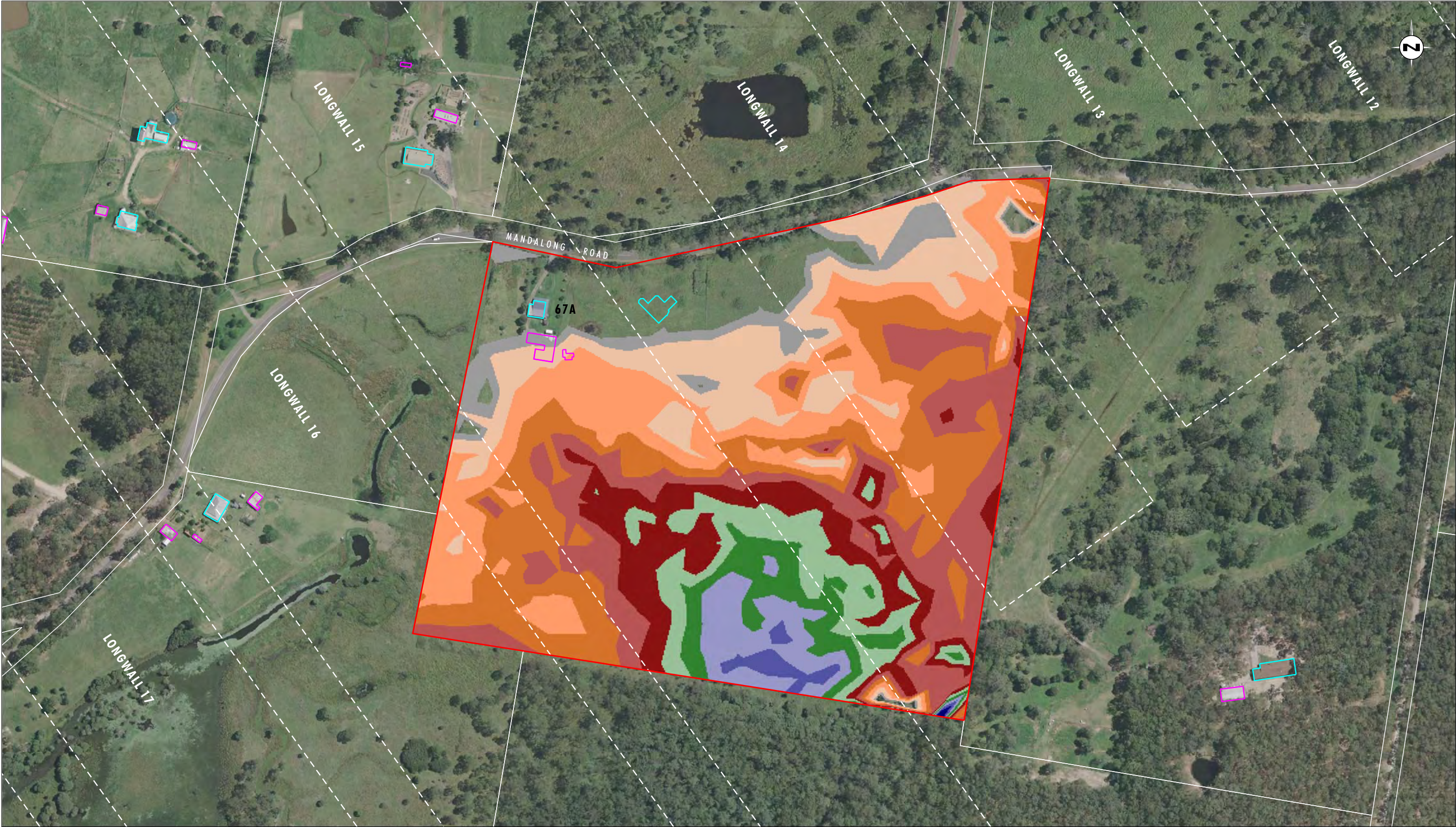


Image Source: Centennial Mandalong Pty Ltd (2009) - Aerial Photograph
Data Source: Centennial Mandalong Pty Ltd, LPI - Cadastral Boundaries

0 50 100 150 m
1:3000 (A3)

Legend

- Property 67
- Longwall Locations
- Dwelling
- Other Structure
- Cadastral Boundary

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 2

Property 67 - 100 year ARI Storm Event:
Maximum Flood Depth Post Mining Landform
(to Longwall 23)

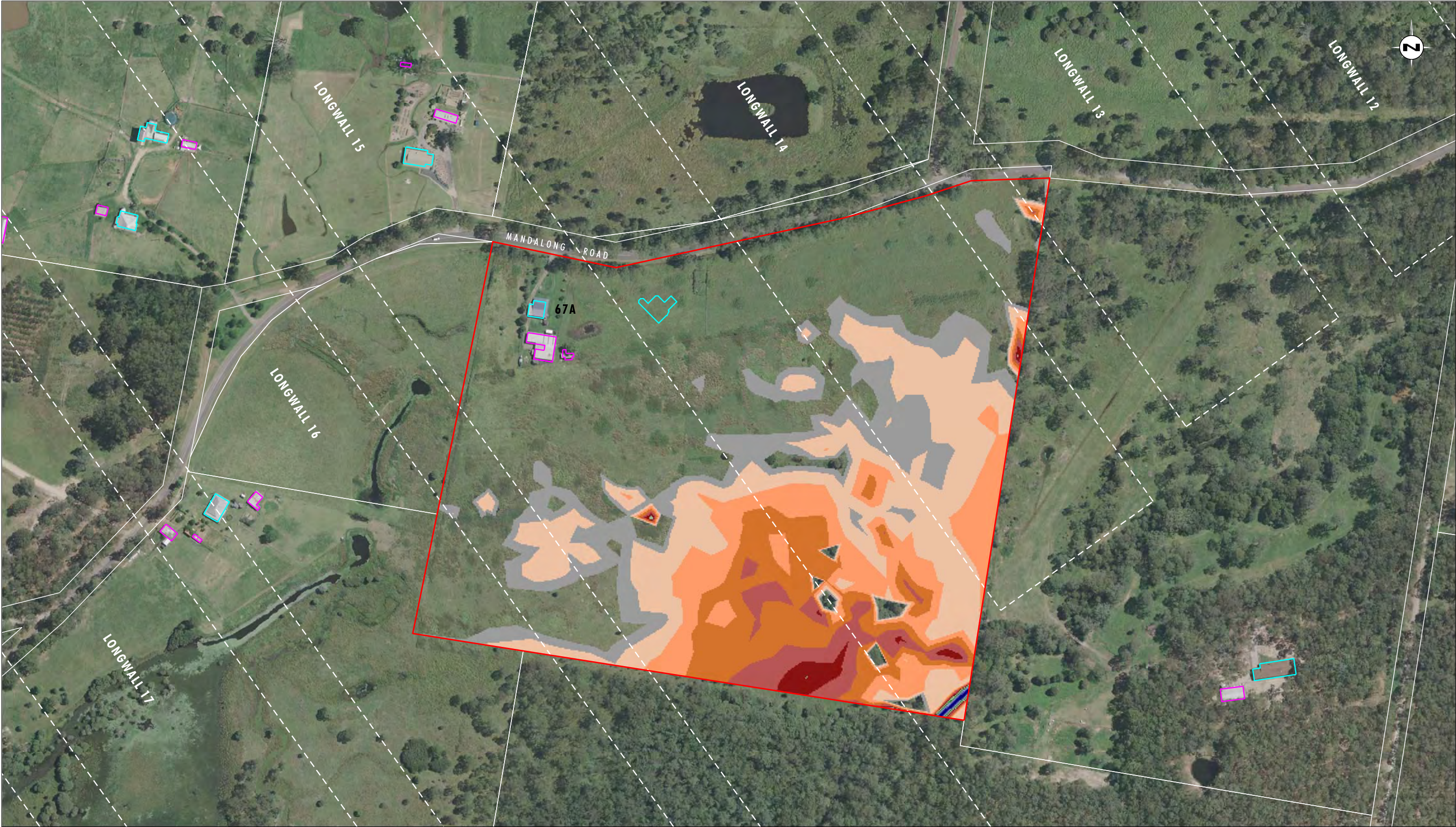


Image Source: Centennial Mandalong Pty Ltd (2009) - Aerial Photograph
Data Source: Centennial Mandalong Pty Ltd, LPI - Cadastral Boundaries

Legend

- Property 67
- Longwall Locations
- Dwelling
- Other Structure
- Cadastral Boundary

Water Depth (m)

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

FIGURE 3

Property 67 - 1 year ARI Storm Event:
Maximum Flood Depth Pre Mining Landform

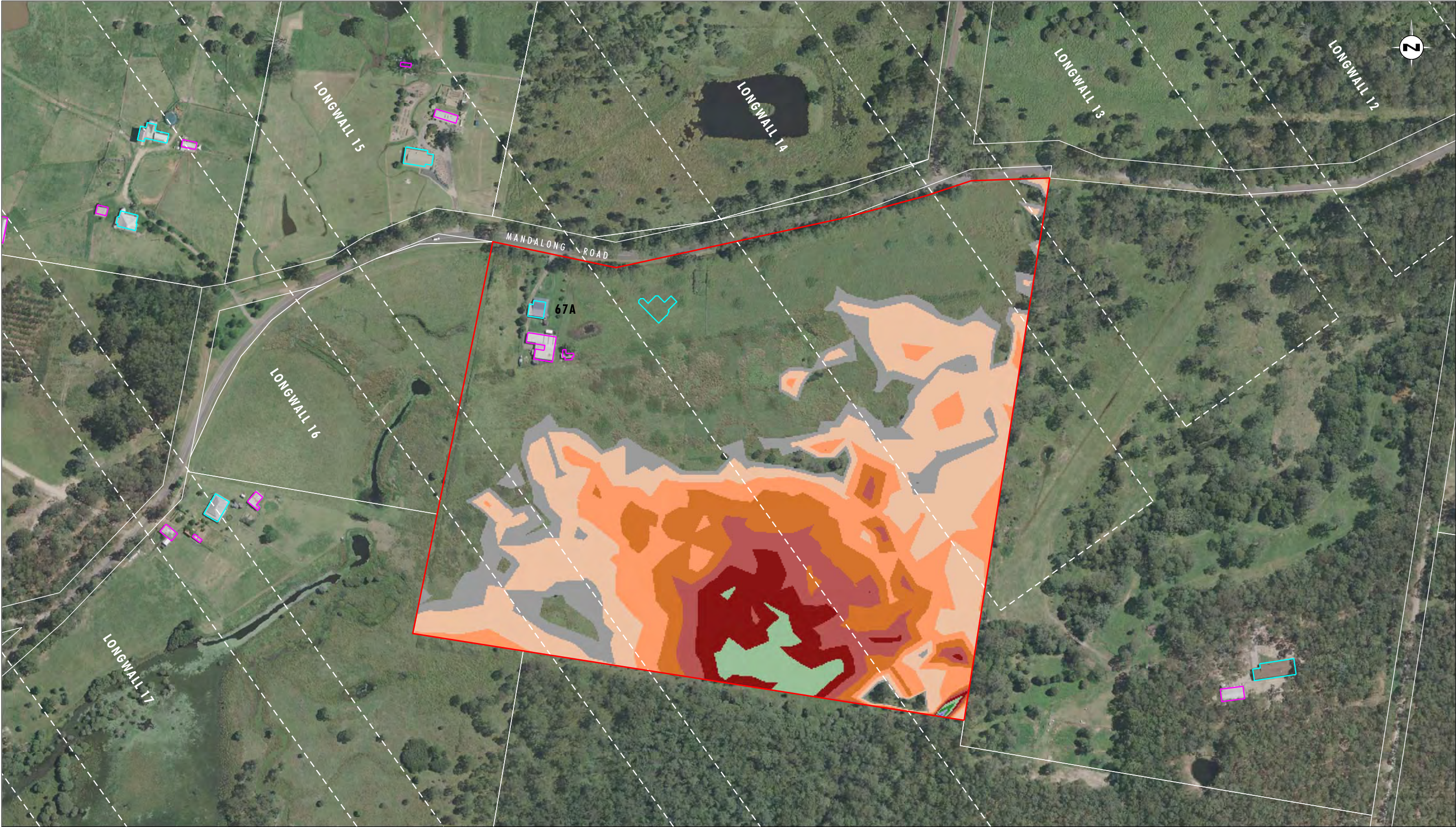


Image Source: Centennial Mandalong Pty Ltd (2009) - Aerial Photograph
Data Source: Centennial Mandalong Pty Ltd, LPI - Cadastral Boundaries

0 50 100 150 m
1:3000 (A3)

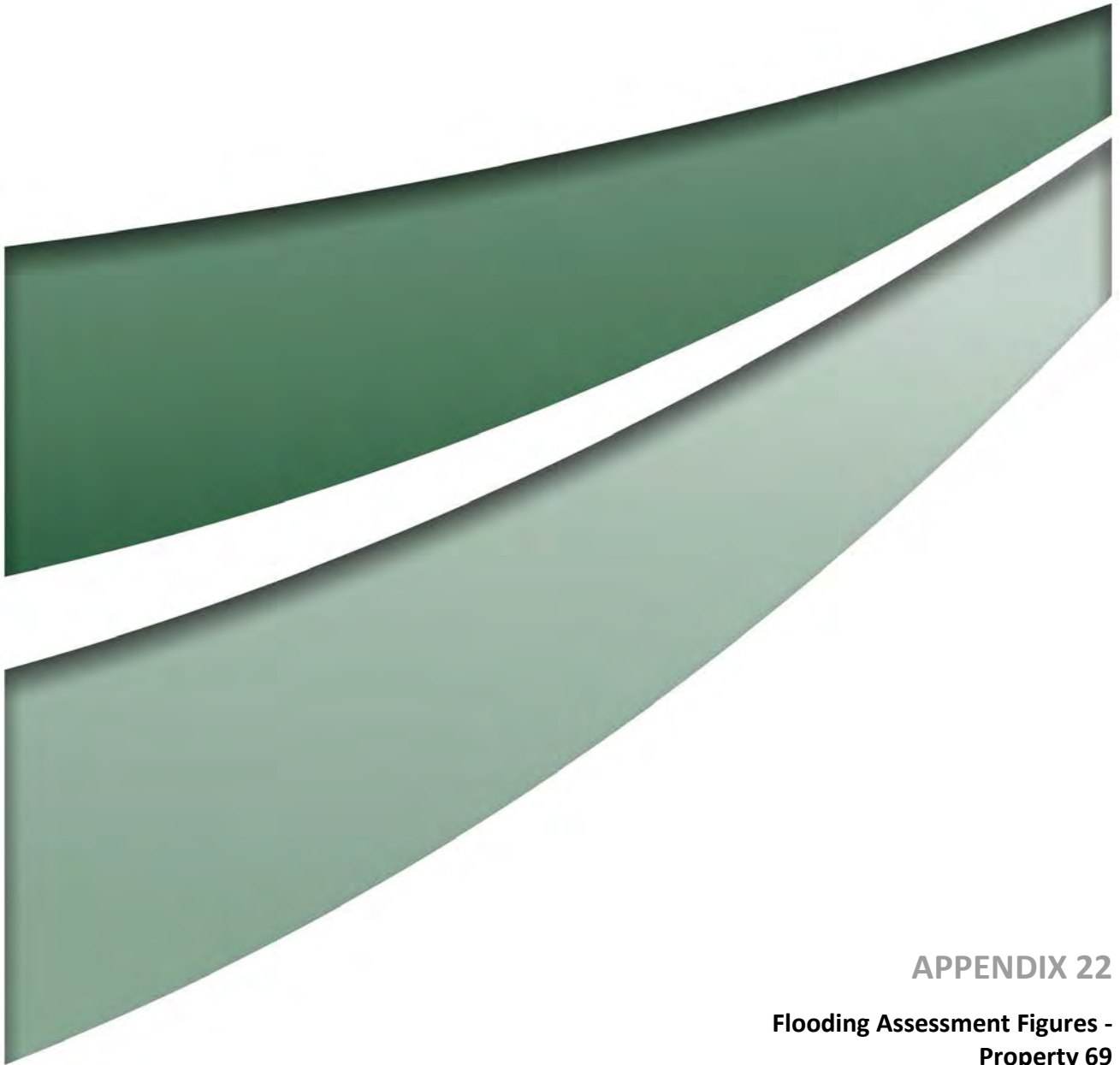
Legend

- Property 67
- Longwall Locations
- Dwelling
- Other Structure
- Cadastral Boundary

Water Depth (m)

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

FIGURE 4
Property 67 - 1 year ARI Storm Event:
Maximum Flood Depth Post Mining Landform
(to Longwall 23)



APPENDIX 22

**Flooding Assessment Figures -
Property 69**

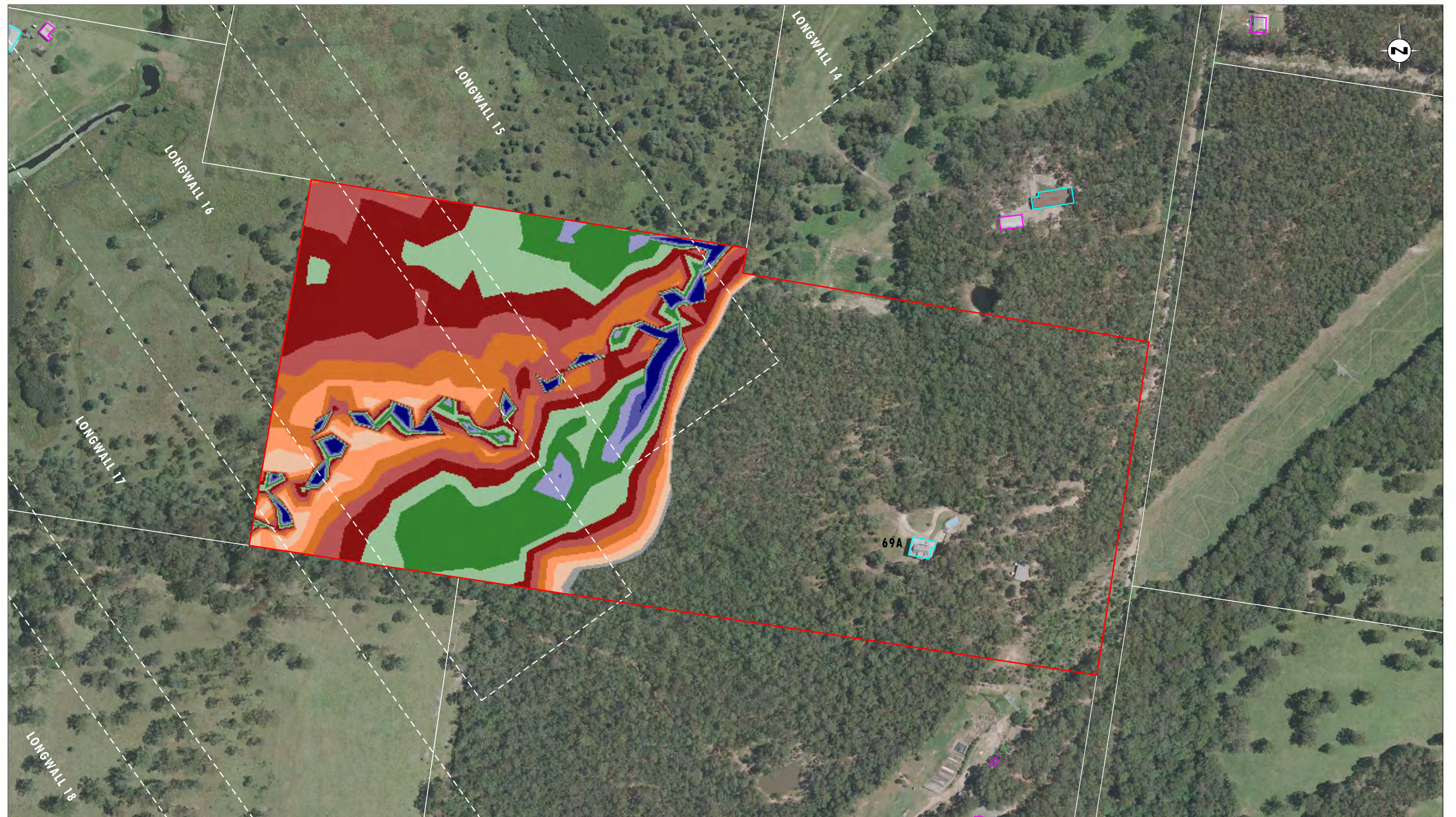


Image Source: Centennial Mandalong Pty Ltd (2009) - Aerial Photograph
Data Source: Centennial Mandalong Pty Ltd, LPI - Cadastral Boundaries

0 50 100 150m
1:3000 (A3)

Legend		Water Depth (m)	
Property 69	Range [0.001 : 0.100]	Range [0.900 : 1.100]	Range [1.100 : 1.300]
Longwall Locations	Range [0.100 : 0.300]	Range [1.300 : 1.500]	Range [1.500 : 1.700]
Dwelling	Range [0.300 : 0.500]	Range [1.700 : 1.900]	Range [> 1.900]
Other Structure	Range [0.500 : 0.700]		
Cadastral Boundary	Range [0.700 : 0.900]		

FIGURE 1

Property 69 - 100 year ARI Storm Event:
Maximum Flood Depth Pre Mining Landform

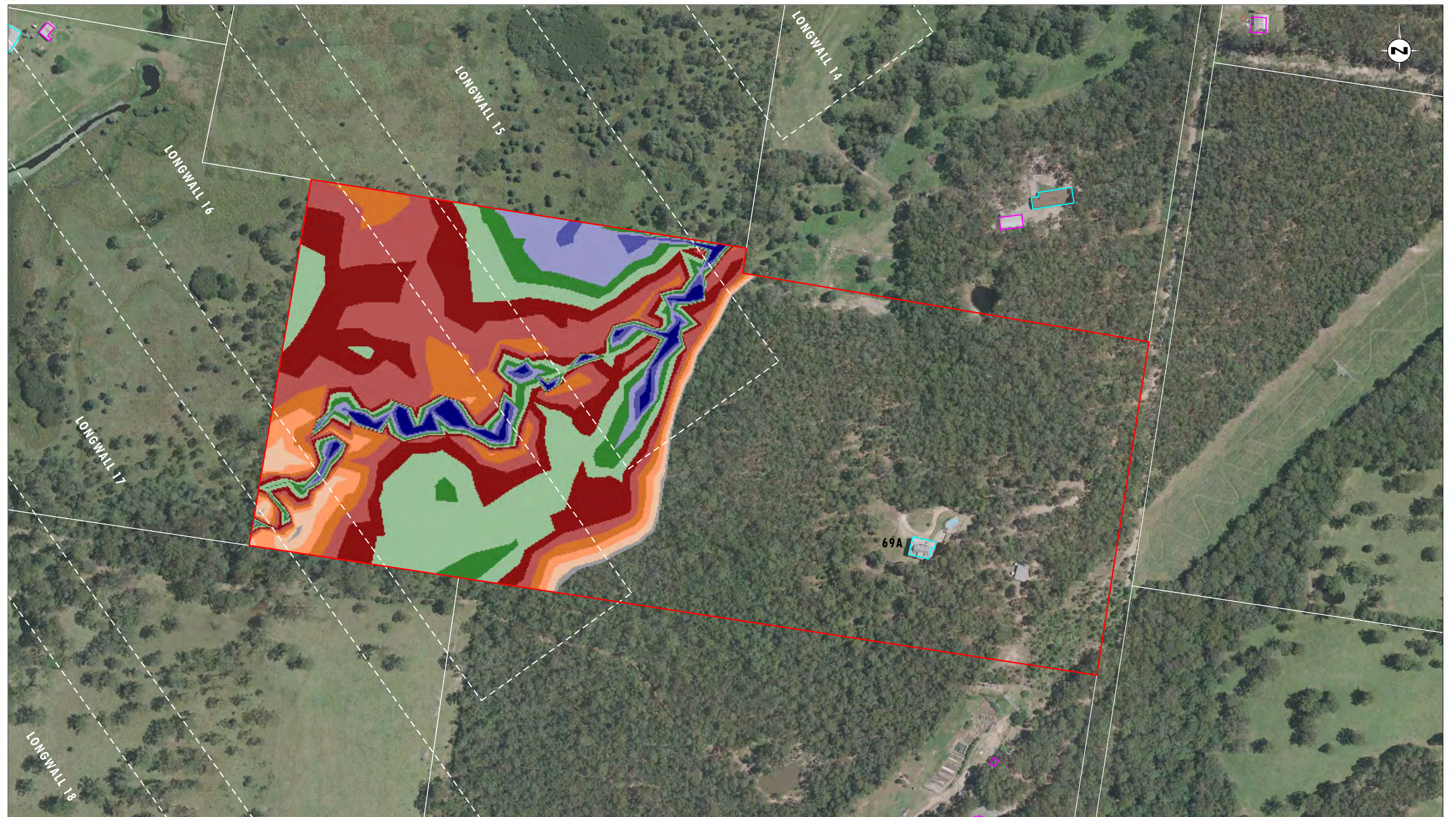


Image Source: Centennial Mandalong Pty Ltd (2009) - Aerial Photograph
Data Source: Centennial Mandalong Pty Ltd, LPI - Cadastral Boundaries

0 50 100 150 m
1:3000 (A3)

Legend		Water Depth (m)		
Property 69	Range [0.001 : 0.100]	Range [0.900 : 1.100]		
Longwall Locations	Range [0.100 : 0.300]	Range [1.100 : 1.300]		
Dwelling	Range [0.300 : 0.500]	Range [1.300 : 1.500]		
Other Structure	Range [0.500 : 0.700]	Range [1.500 : 1.700]		
Cadastral Boundary	Range [0.700 : 0.900]	Range [1.700 : 1.900]		
		Range [> 1.900]		

FIGURE 2

Property 69 - 100 year ARI Storm Event:
Maximum Flood Depth Post Mining Landform
(to Longwall 23)

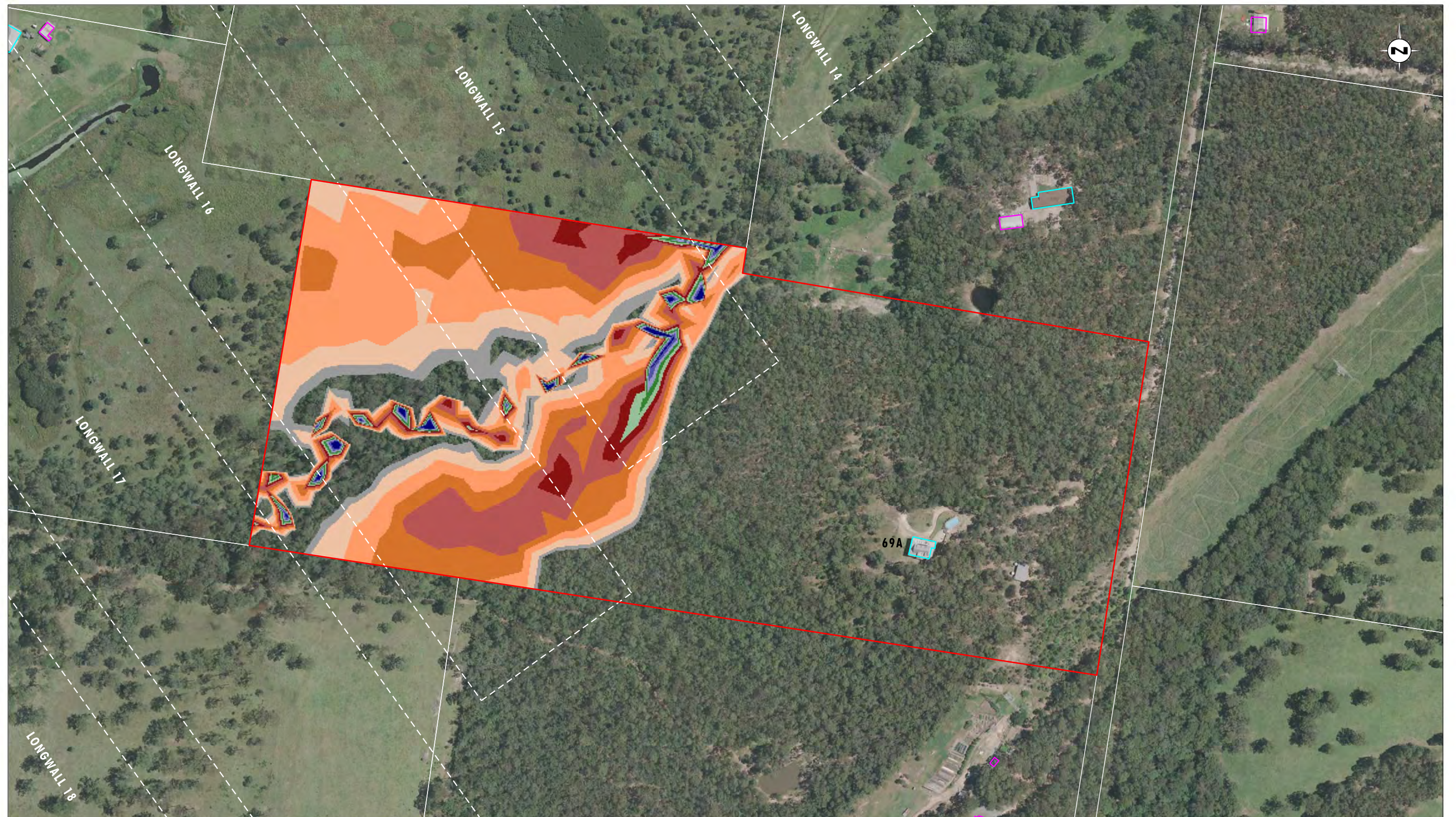


Image Source: Centennial Mandalong Pty Ltd (2009) - Aerial Photograph
Data Source: Centennial Mandalong Pty Ltd, LPI - Cadastral Boundaries

0 50 100 150m
1:3000 (A3)

Legend		Water Depth (m)	
	Property 69		Range [0.001 : 0.100]
	Longwall Locations		Range [0.100 : 0.300]
	Dwelling		Range [0.300 : 0.500]
	Other Structure		Range [0.500 : 0.700]
	Cadastral Boundary		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

Property 69 - 1 year ARI Storm Event:
Maximum Flood Depth Pre Mining Landform

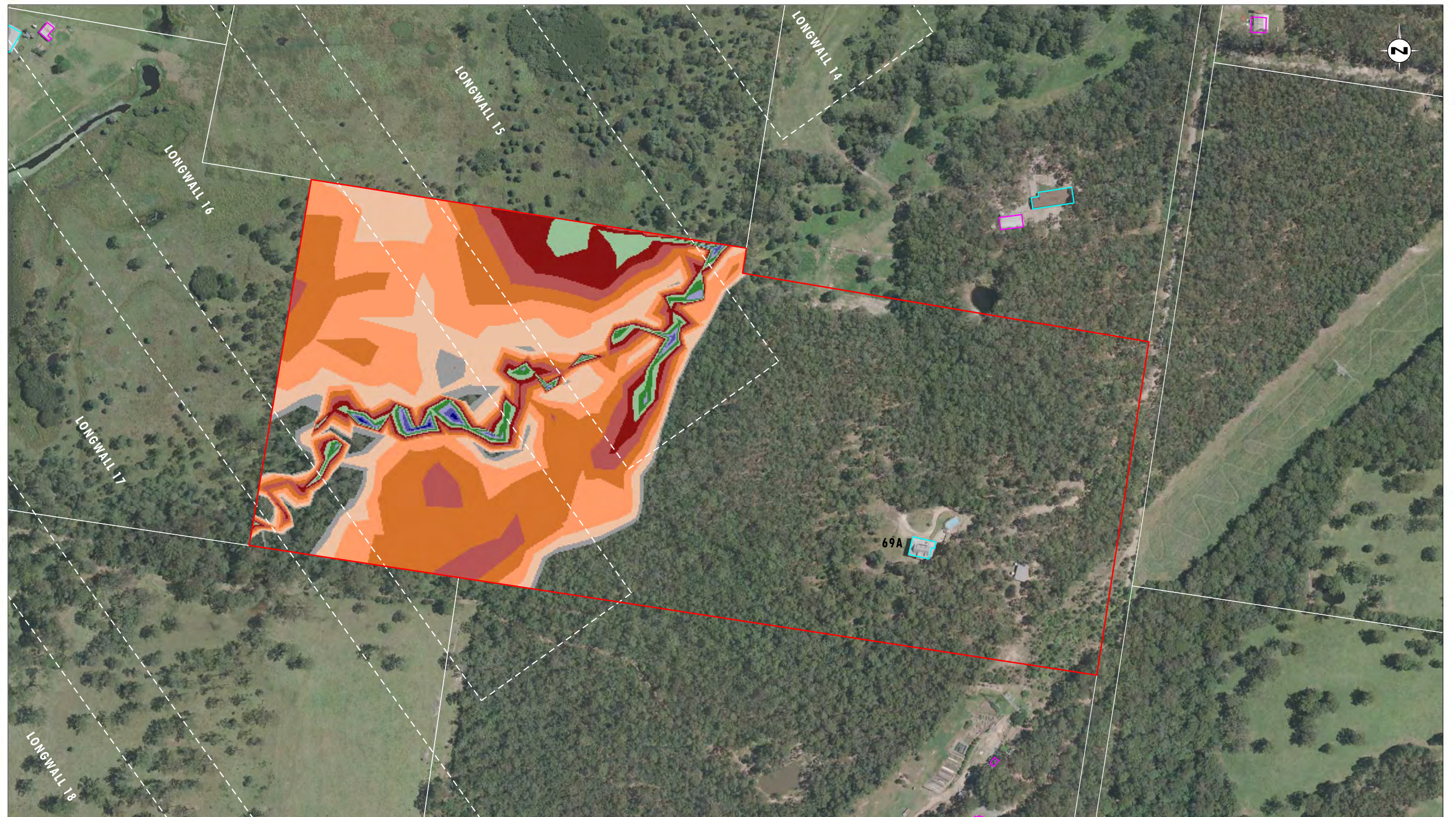


Image Source: Centennial Mandalong Pty Ltd (2009) - Aerial Photograph
Data Source: Centennial Mandalong Pty Ltd, LPI - Cadastral Boundaries

0 50 100 150 m
1:3000 (A3)

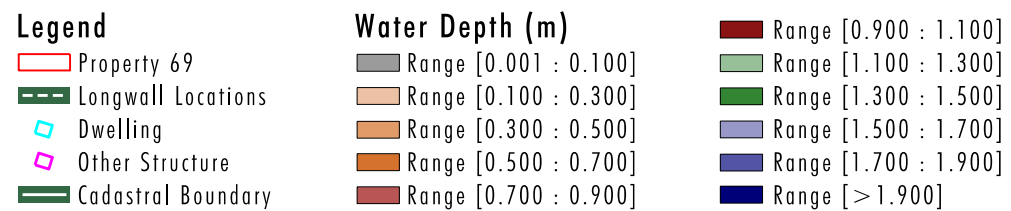
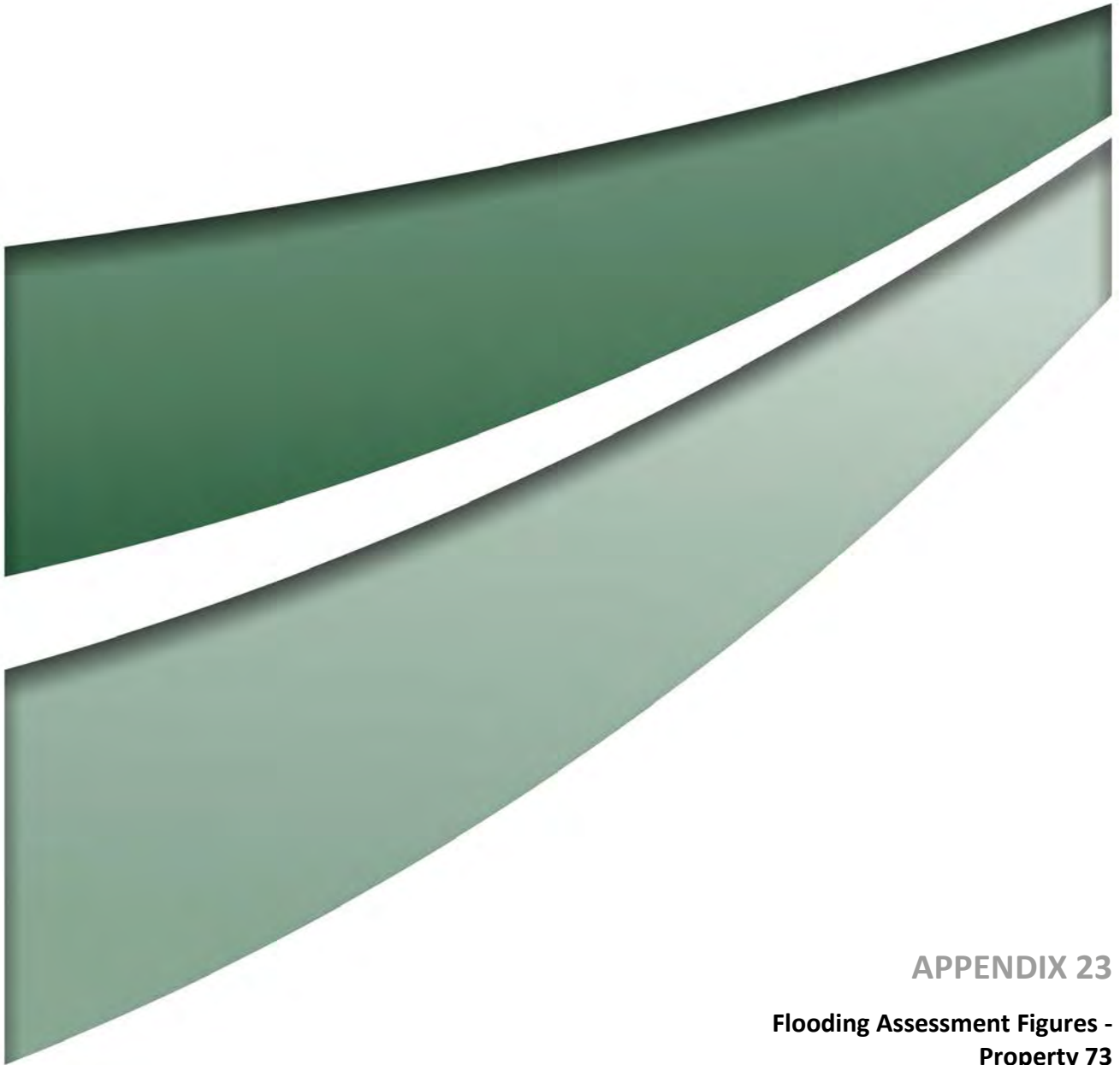


FIGURE 4

Property 69 - 1 year ARI Storm Event:
Maximum Flood Depth Post Mining Landform
(to Longwall 23)



APPENDIX 23

**Flooding Assessment Figures -
Property 73**

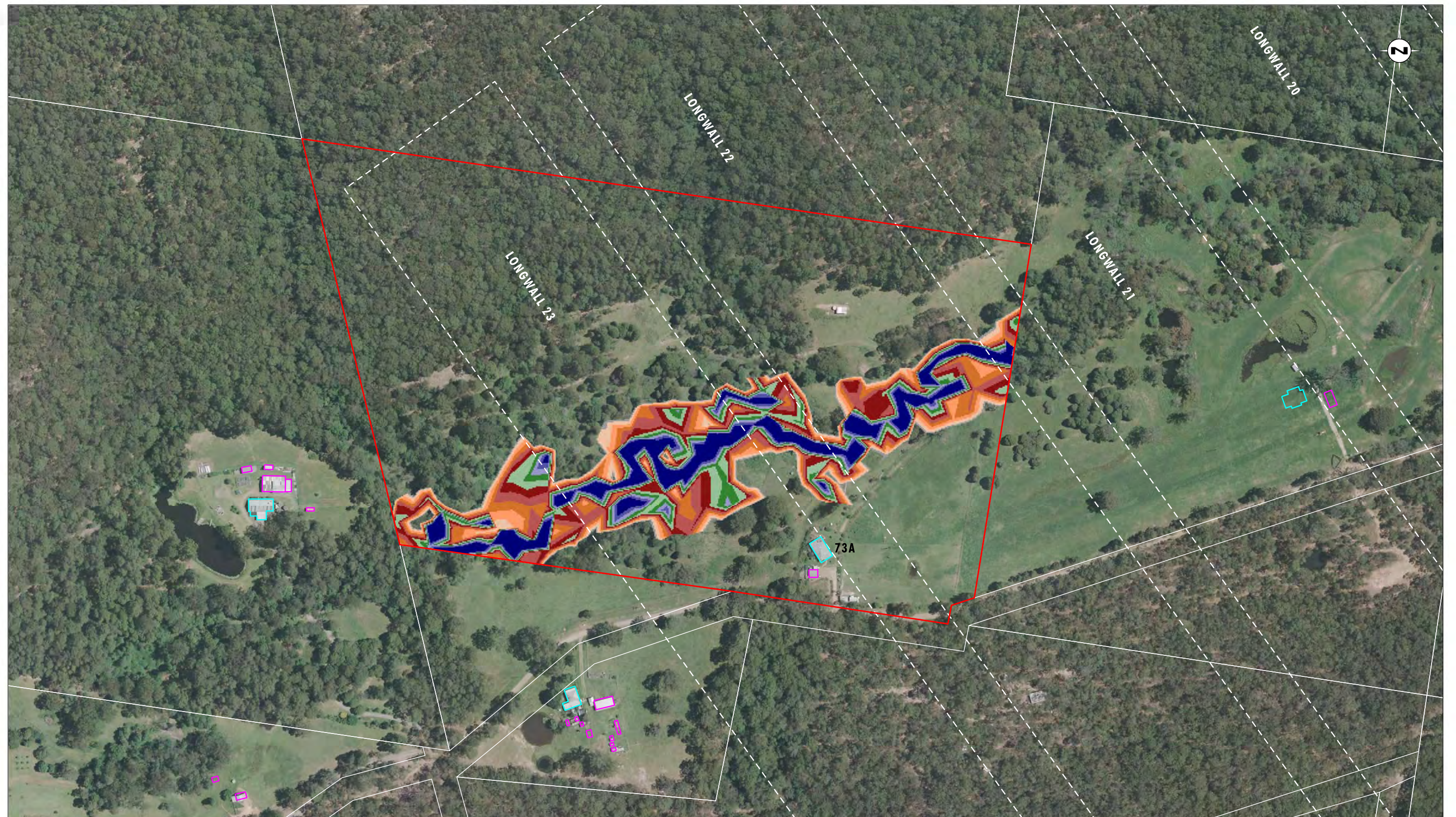


Image Source: Centennial Mandalong Pty Ltd (2009) - Aerial Photograph
Data Source: Centennial Mandalong Pty Ltd, LPI - Cadastral Boundaries

0 50 100 150 m
1:3000 (A3)

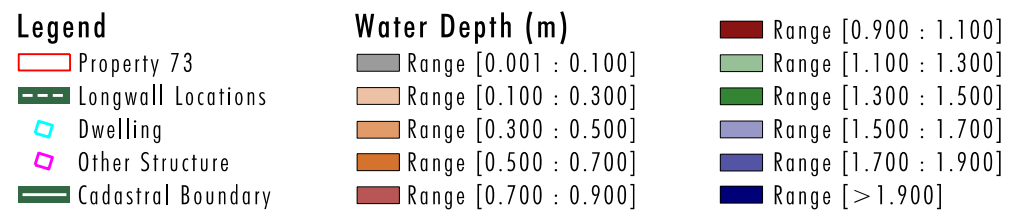


FIGURE 1

Property 73 - 100 year ARI Storm Event:
Maximum Flood Depth Pre Mining Landform

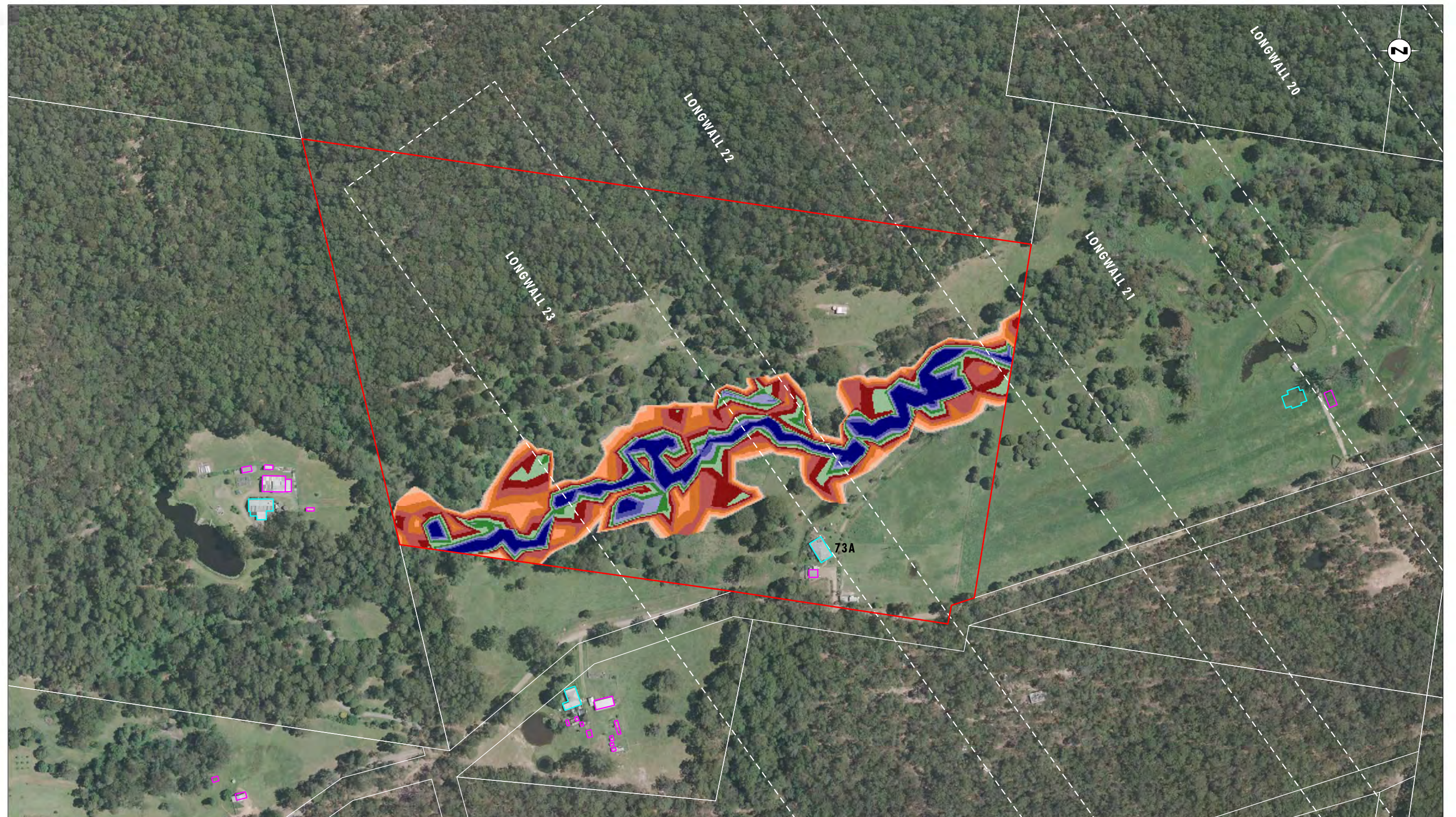


Image Source: Centennial Mandalong Pty Ltd (2009) - Aerial Photograph
Data Source: Centennial Mandalong Pty Ltd, LPI - Cadastral Boundaries

0 50 100 150 m
1:3000 (A3)

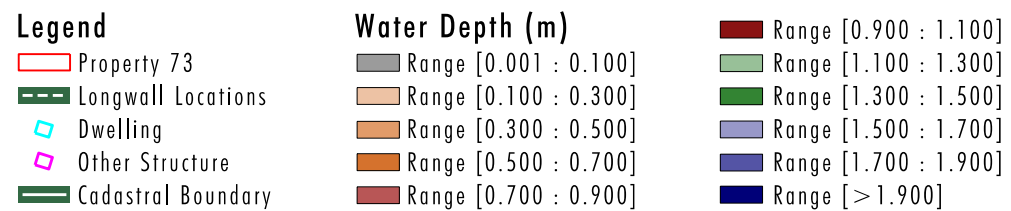


FIGURE 2

Property 73 - 100 year ARI Storm Event:
Maximum Flood Depth Post Mining Landform
(to Longwall 23)



Image Source: Centennial Mandalong Pty Ltd (2009) - Aerial Photograph
Data Source: Centennial Mandalong Pty Ltd, LPI - Cadastral Boundaries

0 50 100 150 m
1:3000 (A3)

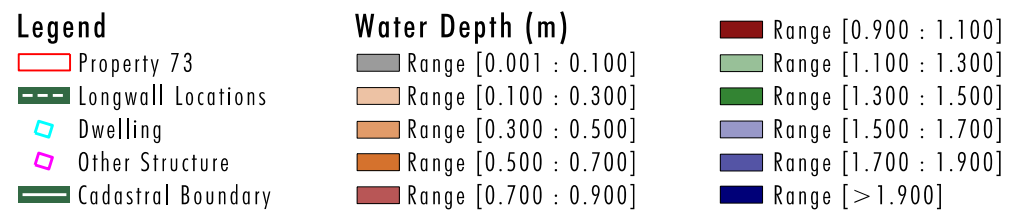


FIGURE 3

Property 73 - 1 year ARI Storm Event:
Maximum Flood Depth Pre Mining Landform



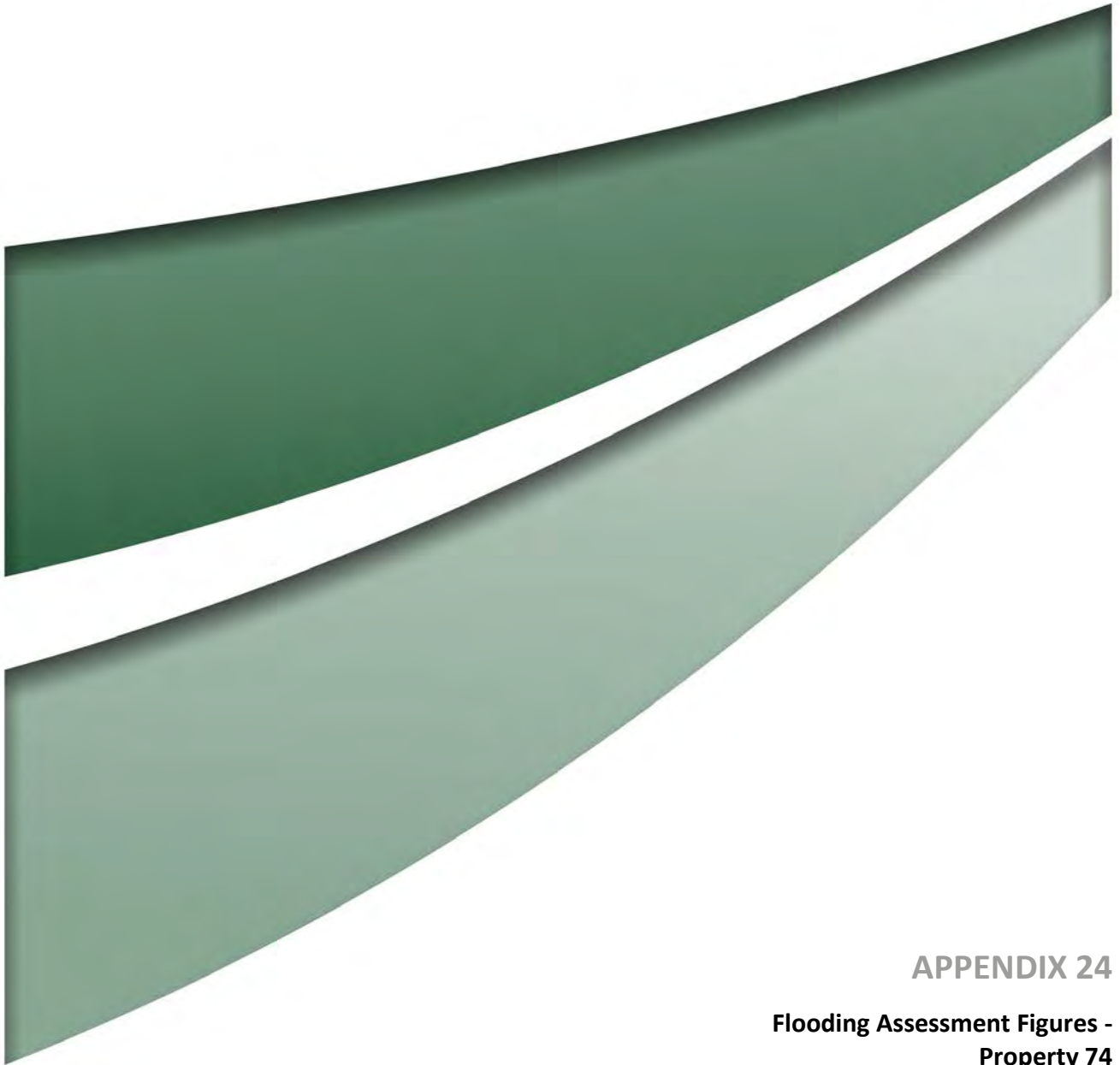
Image Source: Centennial Mandalong Pty Ltd (2009) - Aerial Photograph
Data Source: Centennial Mandalong Pty Ltd, LPI - Cadastral Boundaries

0 50 100 150 m
1:3000 (A3)

Legend		
 Property 73	 Range [0.001 : 0.100]	 Range [0.900 : 1.100]
 Longwall Locations	 Range [0.100 : 0.300]	 Range [1.100 : 1.300]
 Dwelling	 Range [0.300 : 0.500]	 Range [1.300 : 1.500]
 Other Structure	 Range [0.500 : 0.700]	 Range [1.500 : 1.700]
 Cadastral Boundary	 Range [0.700 : 0.900]	 Range [1.700 : 1.900]
		 Range [> 1.900]

FIGURE 4

Property 73 - 1 year ARI Storm Event:
Maximum Flood Depth Post Mining Landform
(to Longwall 23)



APPENDIX 24

**Flooding Assessment Figures -
Property 74**

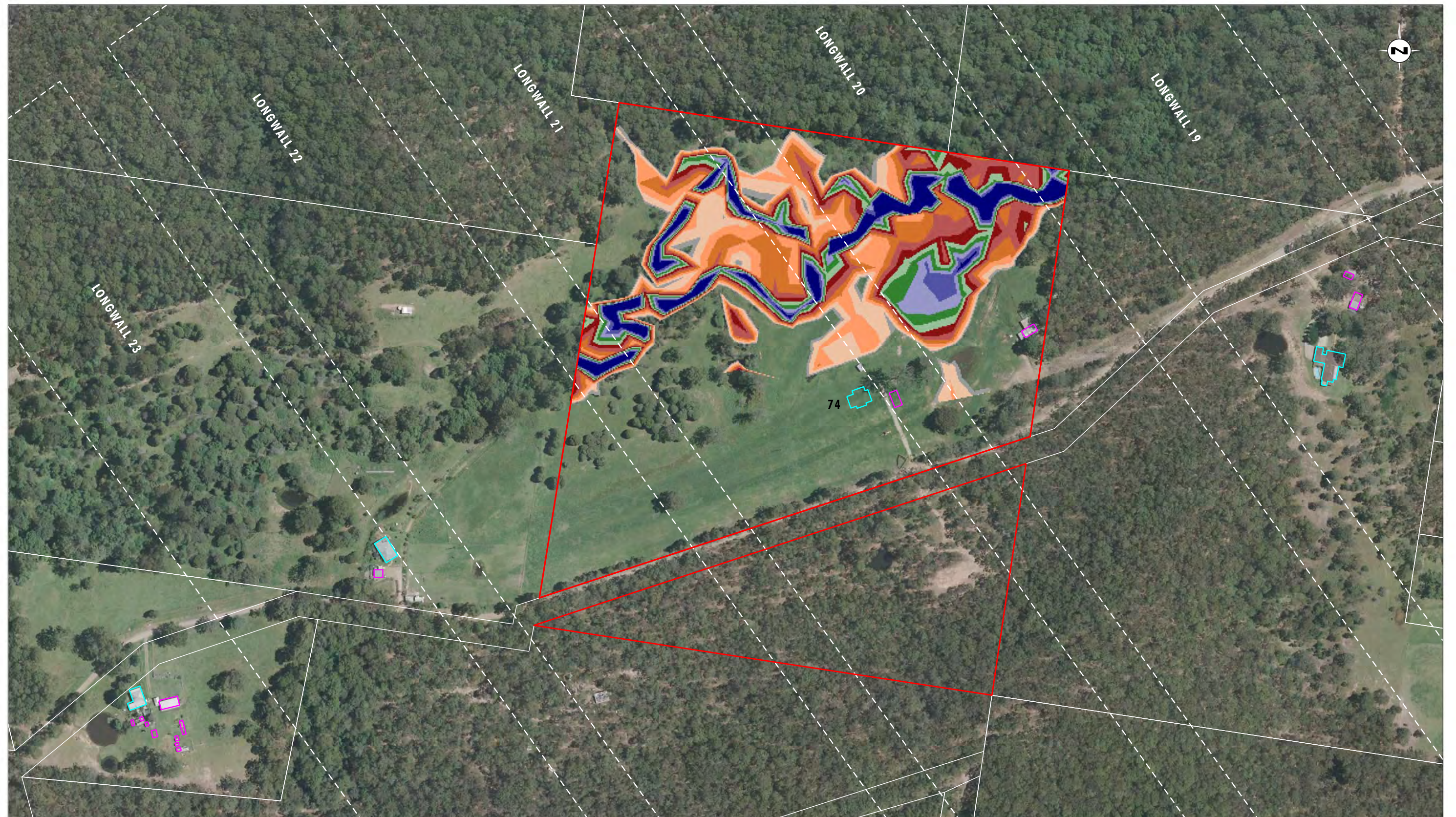


Image Source: Centennial Mandalong Pty Ltd (2009) - Aerial Photograph
Data Source: Centennial Mandalong Pty Ltd, LPI - Cadastral Boundaries

0 50 100 150m
1:3000 (A3)

Legend		
 Property 74	 Range [0.001 : 0.100]	 Range [0.900 : 1.100]
 Longwall Locations	 Range [0.100 : 0.300]	 Range [1.100 : 1.300]
 Dwelling	 Range [0.300 : 0.500]	 Range [1.300 : 1.500]
 Other Structure	 Range [0.500 : 0.700]	 Range [1.500 : 1.700]
 Cadastral Boundary	 Range [0.700 : 0.900]	 Range [1.700 : 1.900]
		 Range [> 1.900]

FIGURE 1

Property 74 - 100 year ARI Storm Event:
Maximum Flood Depth Pre Mining Landform

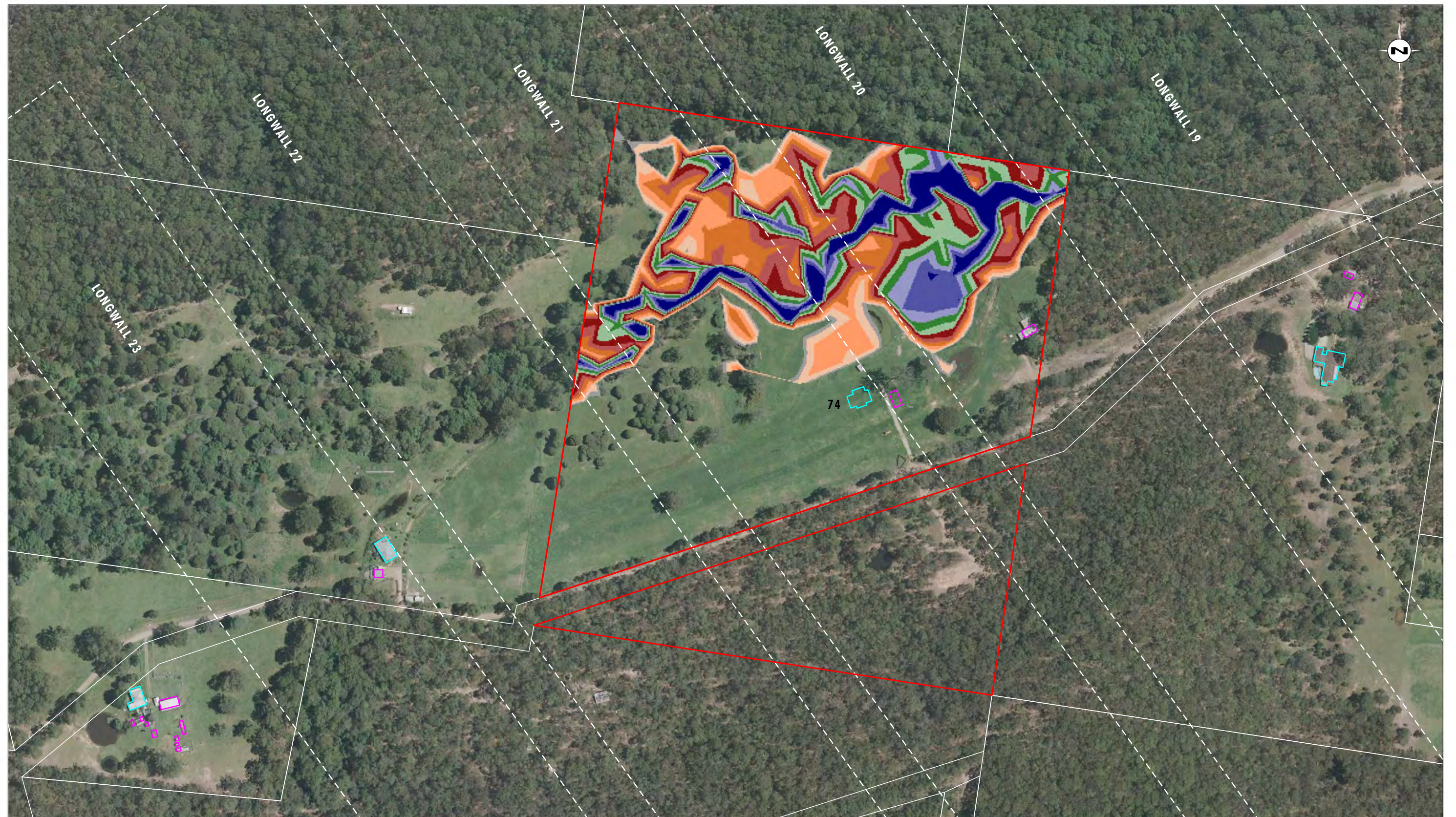


Image Source: Centennial Mandalong Pty Ltd (2009) - Aerial Photograph
Data Source: Centennial Mandalong Pty Ltd, LPI - Cadastral Boundaries

0 50 100 150 m
1:3000 (A3)

Legend		Water Depth (m)	
Property 74		Range [0.001 : 0.100]	Range [0.900 : 1.100]
Longwall Locations		Range [0.100 : 0.300]	Range [1.100 : 1.300]
Dwelling		Range [0.300 : 0.500]	Range [1.300 : 1.500]
Other Structure		Range [0.500 : 0.700]	Range [1.500 : 1.700]
Cadastral Boundary		Range [0.700 : 0.900]	Range [1.700 : 1.900]
			Range [> 1.900]

FIGURE 2

Property 74 - 100 year ARI Storm Event:
Maximum Flood Depth Post Mining Landform
(to Longwall 23)



Image Source: Centennial Mandalong Pty Ltd (2009) - Aerial Photograph
Data Source: Centennial Mandalong Pty Ltd, LPI - Cadastral Boundaries

0 50 100 150 m
1:3000 (A3)

Legend		
 Property 74	 Range [0.001 : 0.100]	 Range [0.900 : 1.100]
 Longwall Locations	 Range [0.100 : 0.300]	 Range [1.100 : 1.300]
 Dwelling	 Range [0.300 : 0.500]	 Range [1.300 : 1.500]
 Other Structure	 Range [0.500 : 0.700]	 Range [1.500 : 1.700]
 Cadastral Boundary	 Range [0.700 : 0.900]	 Range [1.700 : 1.900]
		 Range [>1.900]

FIGURE 3

Property 74 - 1 year ARI Storm Event:
Maximum Flood Depth Pre Mining Landform

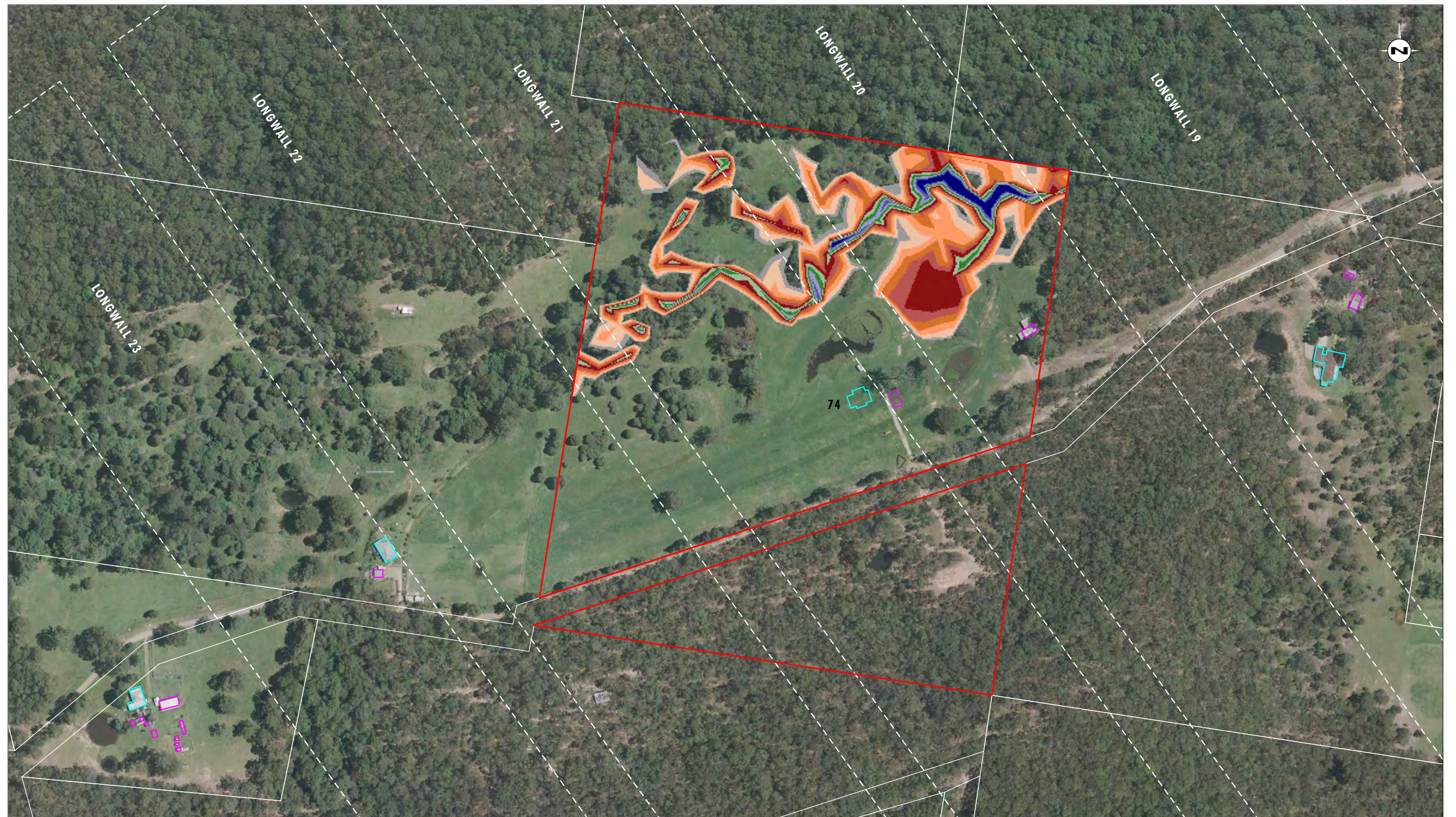


Image Source: Centennial Mandalong Pty Ltd (2009) - Aerial Photograph
Data Source: Centennial Mandalong Pty Ltd, LPI - Cadastral Boundaries

0 50 100 150 m
1:3000 (A3)

Legend		
 Property 74	 Range [0.001 : 0.100]	 Range [0.900 : 1.100]
 Longwall Locations	 Range [0.100 : 0.300]	 Range [1.100 : 1.300]
 Dwelling	 Range [0.300 : 0.500]	 Range [1.300 : 1.500]
 Other Structure	 Range [0.500 : 0.700]	 Range [1.500 : 1.700]
 Cadastral Boundary	 Range [0.700 : 0.900]	 Range [1.700 : 1.900]
		 Range [> 1.900]

FIGURE 4

Property 74 - 1 year ARI Storm Event:
Maximum Flood Depth Post Mining Landform
(to Longwall 23)