



Artist's Impression

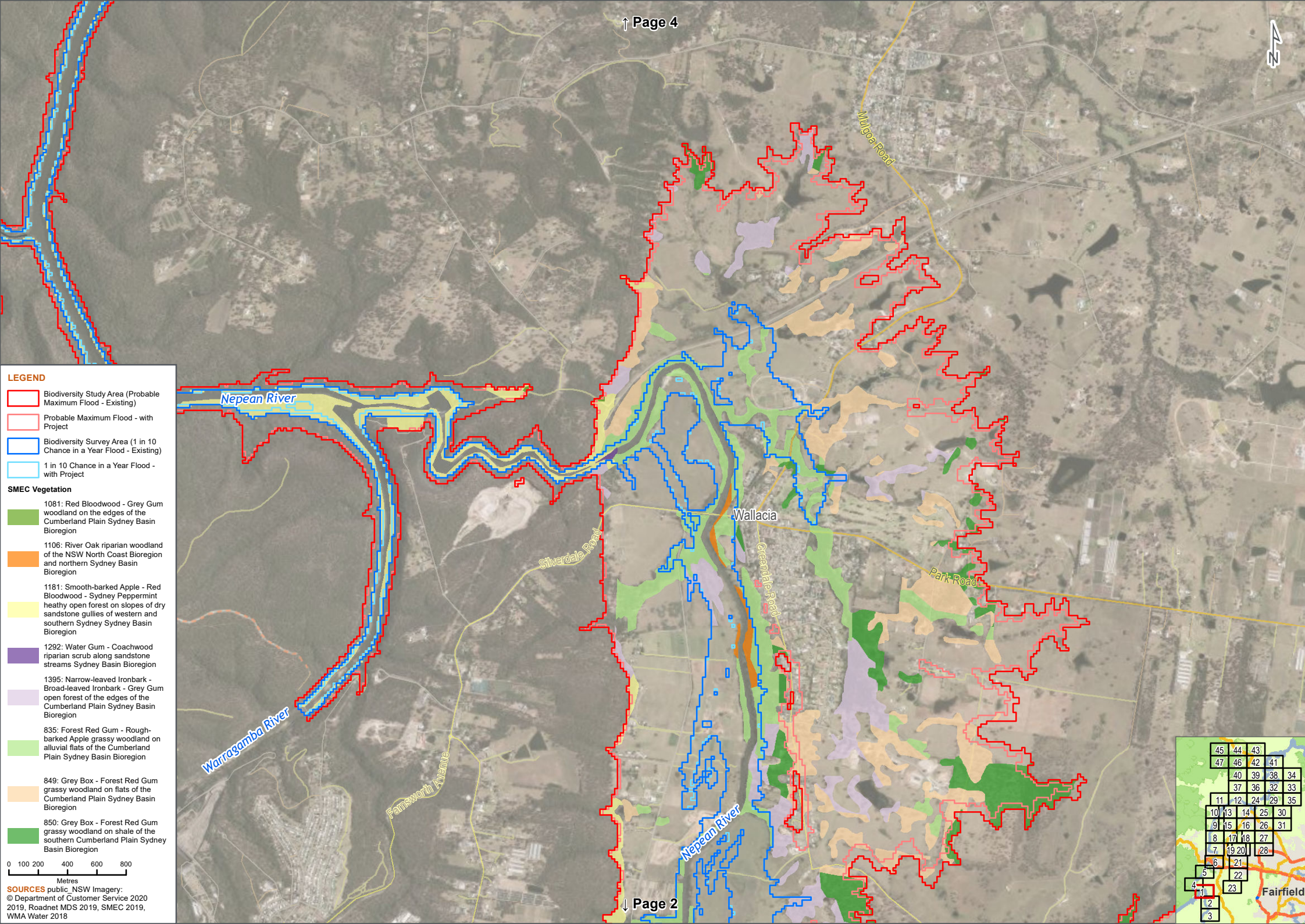
## Environmental Impact Statement-Appendix F2: Downstream Ecological Assessment

# Warragamba Dam Raising

Reference No. 30012078  
Prepared for WaterNSW  
10 September 2021

Appendix I – Part 3: Plant community types





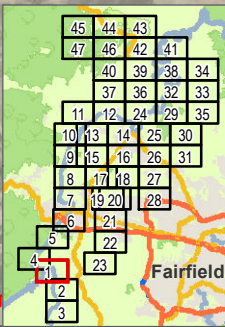
**LEGEND**

- Biodiversity Study Area (Probable Maximum Flood - Existing)
- Probable Maximum Flood - with Project
- Biodiversity Survey Area (1 in 10 Chance in a Year Flood - Existing)
- 1 in 10 Chance in a Year Flood - with Project

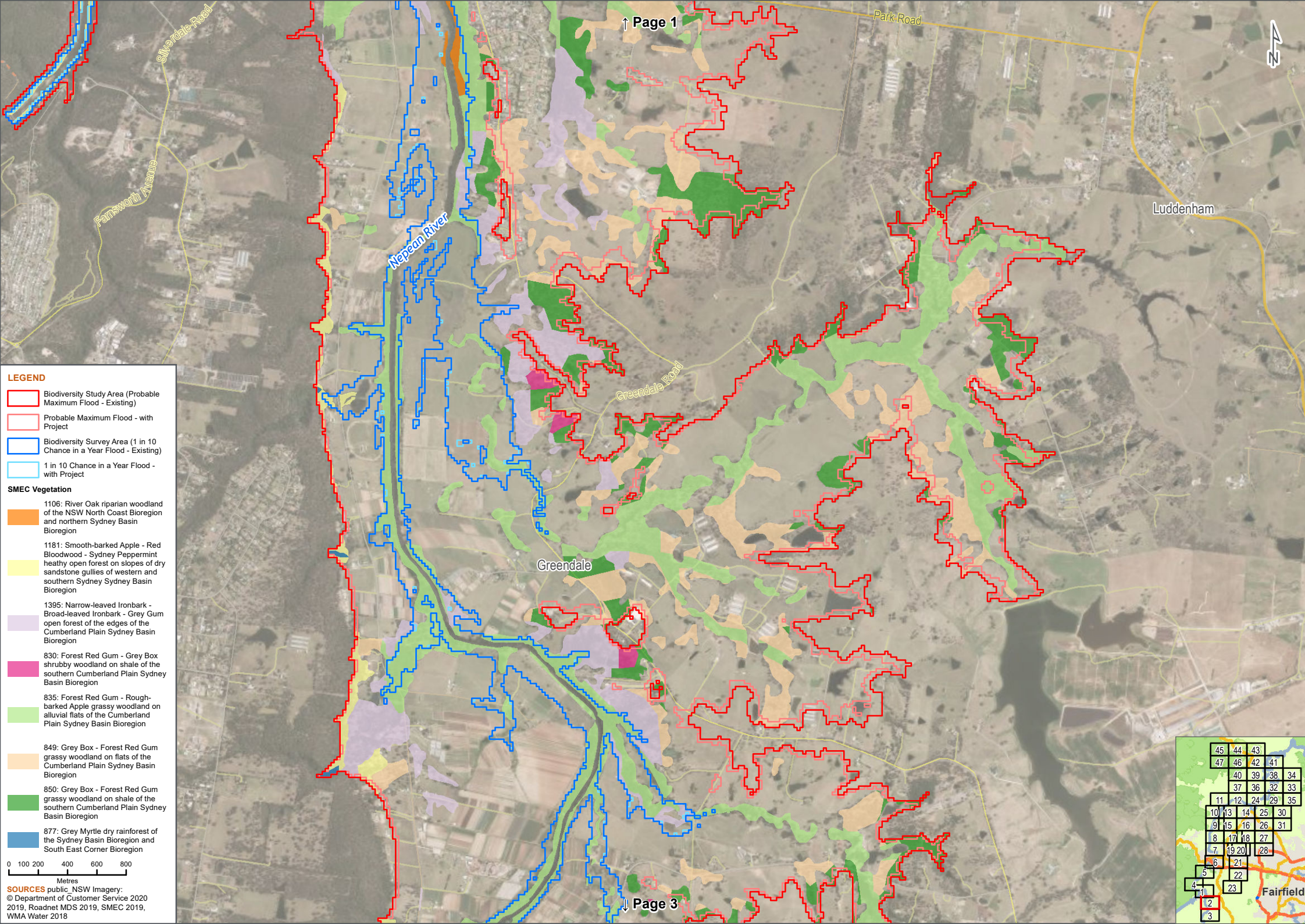
**SMEC Vegetation**

- 1081: Red Bloodwood - Grey Gum woodland on the edges of the Cumberland Plain Sydney Basin Bioregion
- 1106: River Oak riparian woodland of the NSW North Coast Bioregion and northern Sydney Basin Bioregion
- 1181: Smooth-barked Apple - Red Bloodwood - Sydney Peppermint heathy open forest on slopes of dry sandstone gullies of western and southern Sydney Sydney Basin Bioregion
- 1292: Water Gum - Coachwood riparian scrub along sandstone streams Sydney Basin Bioregion
- 1395: Narrow-leaved Ironbark - Broad-leaved Ironbark - Grey Gum open forest of the edges of the Cumberland Plain Sydney Basin Bioregion
- 835: Forest Red Gum - Rough-barked Apple grassy woodland on alluvial flats of the Cumberland Plain Sydney Basin Bioregion
- 849: Grey Box - Forest Red Gum grassy woodland on flats of the Cumberland Plain Sydney Basin Bioregion
- 850: Grey Box - Forest Red Gum grassy woodland on shale of the southern Cumberland Plain Sydney Basin Bioregion

**SOURCES** public\_NSW Imagery:  
 © Department of Customer Service 2020  
 2019, Roadnet MDS 2019, SMEC 2019, WMA Water 2018







**LEGEND**

Biodiversity Study Area (Probable Maximum Flood - Existing)

Probable Maximum Flood - with Project

Biodiversity Survey Area (1 in 10 Chance in a Year Flood - Existing)

1 in 10 Chance in a Year Flood - with Project

**SMEC Vegetation**

1106: River Oak riparian woodland of the NSW North Coast Bioregion and northern Sydney Basin Bioregion

1181: Smooth-barked Apple - Red Bloodwood - Sydney Peppermint heathy open forest on slopes of dry sandstone gullies of western and southern Sydney Sydney Basin Bioregion

1395: Narrow-leaved Ironbark - Broad-leaved Ironbark - Grey Gum open forest of the edges of the Cumberland Plain Sydney Basin Bioregion

830: Forest Red Gum - Grey Box shrubby woodland on shale of the southern Cumberland Plain Sydney Basin Bioregion

835: Forest Red Gum - Rough-barked Apple grassy woodland on alluvial flats of the Cumberland Plain Sydney Basin Bioregion

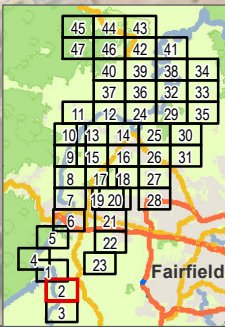
849: Grey Box - Forest Red Gum grassy woodland on flats of the Cumberland Plain Sydney Basin Bioregion

850: Grey Box - Forest Red Gum grassy woodland on shale of the southern Cumberland Plain Sydney Basin Bioregion

877: Grey Myrtle dry rainforest of the Sydney Basin Bioregion and South East Corner Bioregion

0 100 200 400 600 800  
Metres

**SOURCES** public\_NSW Imagery:  
© Department of Customer Service 2020  
2019, Roadnet MDS 2019, SMEC 2019,  
WMA Water 2018





**LEGEND**

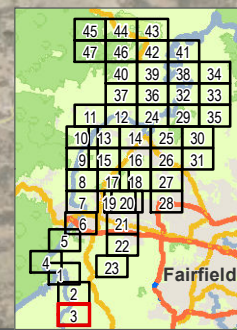
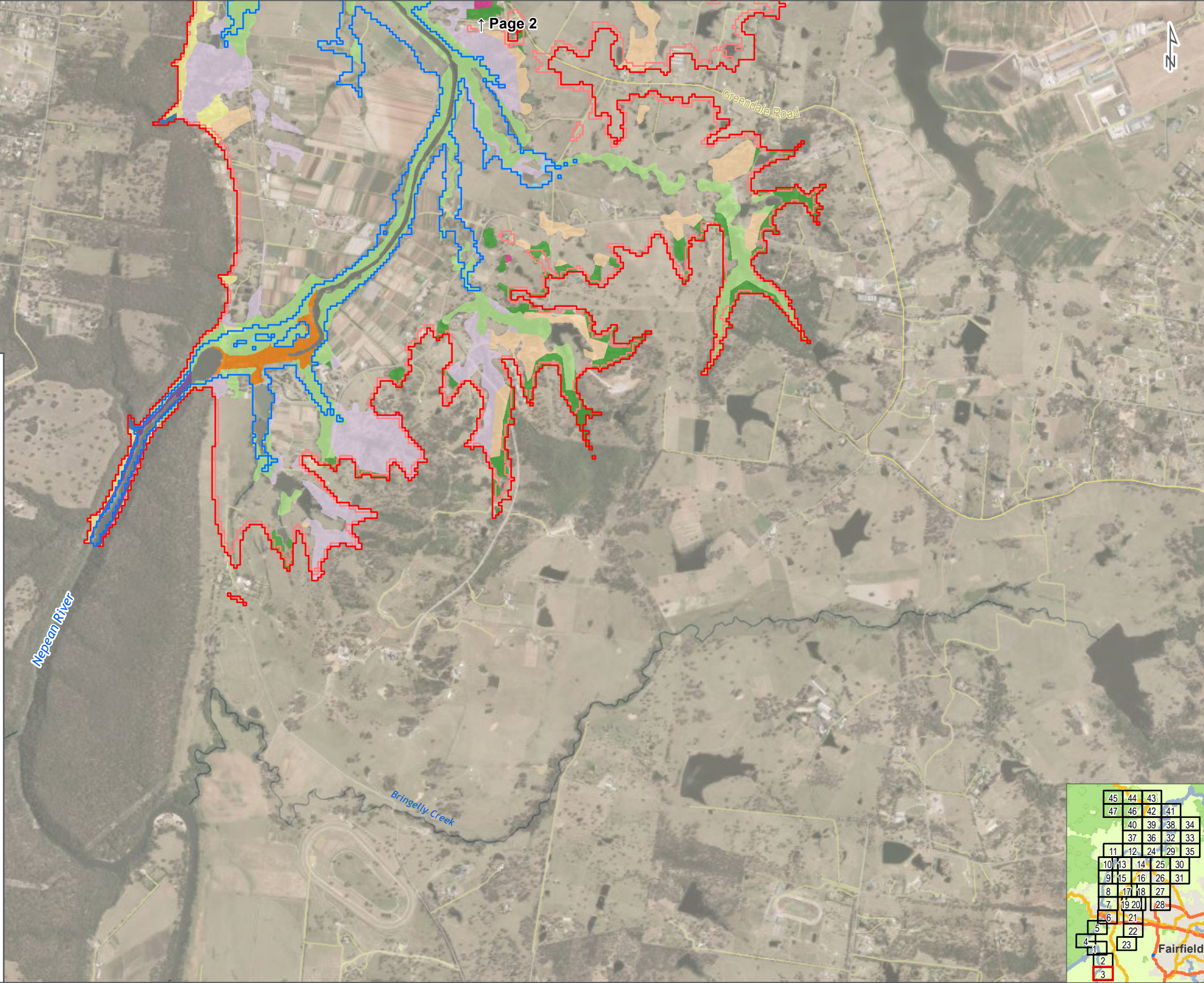
- Biodiversity Study Area (Probable Maximum Flood - Existing)
- Probable Maximum Flood - with Project
- Biodiversity Survey Area (1 in 10 Chance in a Year Flood - Existing)
- 1 in 10 Chance in a Year Flood - with Project

**SMEC Vegetation**

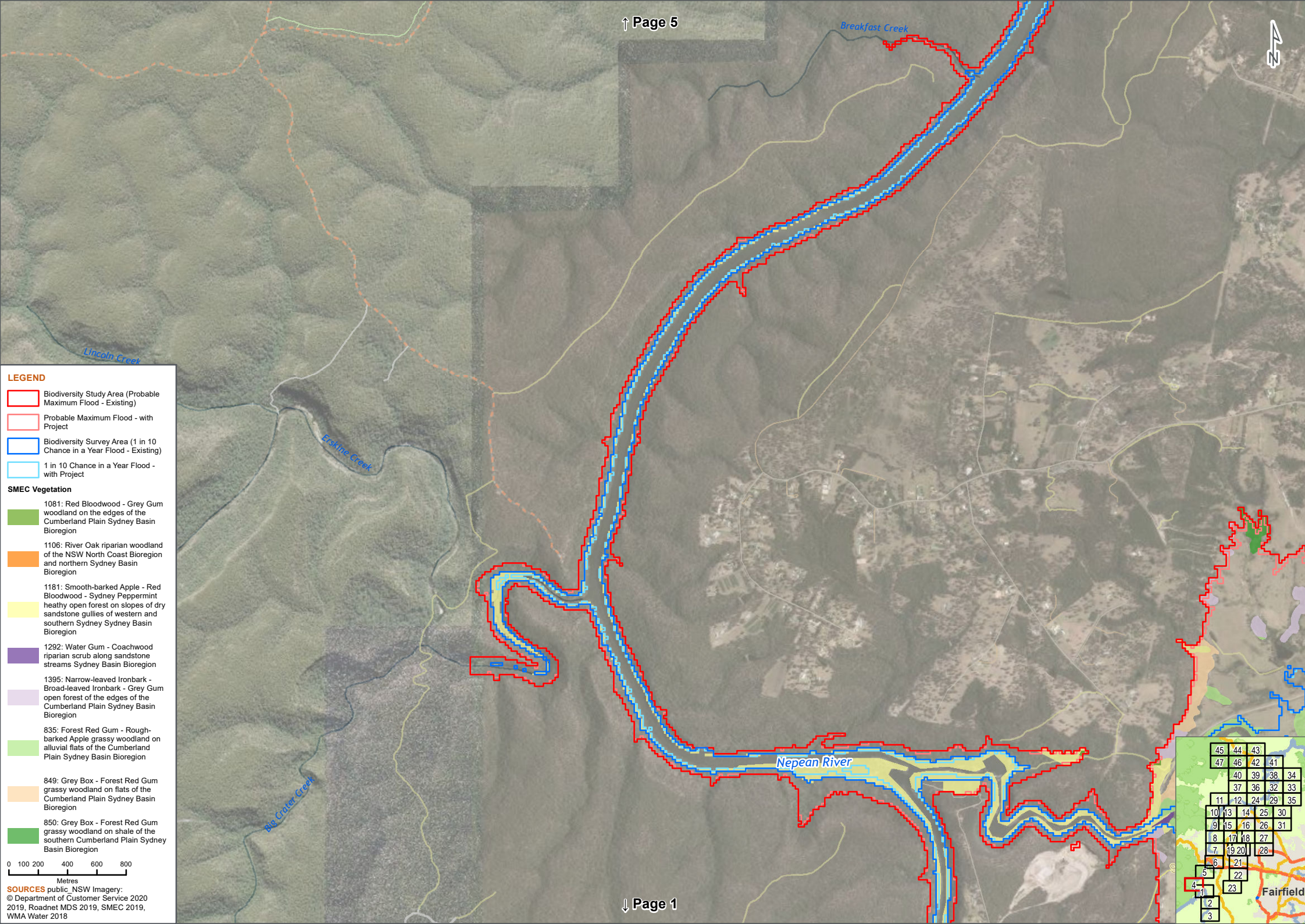
- 1106: River Oak riparian woodland of the NSW North Coast Bioregion and northern Sydney Basin Bioregion
- 1181: Smooth-barked Apple - Red Bloodwood - Sydney Peppermint heathy open forest on slopes of dry sandstone gullies of western and southern Sydney Sydney Basin Bioregion
- 1292: Water Gum - Coachwood riparian scrub along sandstone streams Sydney Basin Bioregion
- 1395: Narrow-leaved Ironbark - Broad-leaved Ironbark - Grey Gum open forest of the edges of the Cumberland Plain Sydney Basin Bioregion
- 830: Forest Red Gum - Grey Box shrubby woodland on shale of the southern Cumberland Plain Sydney Basin Bioregion
- 835: Forest Red Gum - Rough-barked Apple grassy woodland on alluvial flats of the Cumberland Plain Sydney Basin Bioregion
- 849: Grey Box - Forest Red Gum grassy woodland on flats of the Cumberland Plain Sydney Basin Bioregion
- 850: Grey Box - Forest Red Gum grassy woodland on shale of the southern Cumberland Plain Sydney Basin Bioregion
- 877: Grey Myrtle dry rainforest of the Sydney Basin Bioregion and South East Corner Bioregion

0 100 200 400 600 800  
Metres

**SOURCES** public\_NSW Imagery:  
© Department of Customer Service 2020  
2019, Roadnet MDS 2019, SMEC 2019, WMA Water 2018







**LEGEND**

Biodiversity Study Area (Probable Maximum Flood - Existing)

Probable Maximum Flood - with Project

Biodiversity Survey Area (1 in 10 Chance in a Year Flood - Existing)

1 in 10 Chance in a Year Flood - with Project

**SMEC Vegetation**

1081: Red Bloodwood - Grey Gum woodland on the edges of the Cumberland Plain Sydney Basin Bioregion

1106: River Oak riparian woodland of the NSW North Coast Bioregion and northern Sydney Basin Bioregion

1181: Smooth-barked Apple - Red Bloodwood - Sydney Peppermint heathy open forest on slopes of dry sandstone gullies of western and southern Sydney Sydney Basin Bioregion

1292: Water Gum - Coachwood riparian scrub along sandstone streams Sydney Basin Bioregion

1395: Narrow-leaved Ironbark - Broad-leaved Ironbark - Grey Gum open forest of the edges of the Cumberland Plain Sydney Basin Bioregion

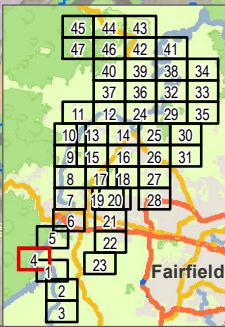
835: Forest Red Gum - Rough-barked Apple grassy woodland on alluvial flats of the Cumberland Plain Sydney Basin Bioregion

849: Grey Box - Forest Red Gum grassy woodland on flats of the Cumberland Plain Sydney Basin Bioregion

850: Grey Box - Forest Red Gum grassy woodland on shale of the southern Cumberland Plain Sydney Basin Bioregion

0 100 200 400 600 800  
Metres

**SOURCES** public\_NSW Imagery:  
© Department of Customer Service 2020  
2019, Roadnet MDS 2019, SMEC 2019,  
WMA Water 2018





Lapstone

Regentville



Camp Fire Creek

Glenbrook

Mulgoa Creek

The Lakes Drive

Morrison Street

Glenmore Park

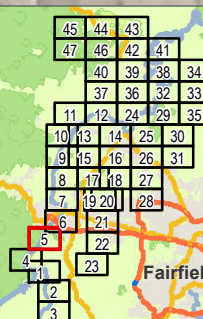
Glenmore Parkway

Napean River

Mulgoa Creek

Mulgoa Road

Breakfast Creek



Fairfield

# LEGEND

- Biodiversity Study Area (Probable Maximum Flood - Existing)
- Probable Maximum Flood - with Project
- Biodiversity Survey Area (1 in 10 Chance in a Year Flood - Existing)
- 1 in 10 Chance in a Year Flood - with Project

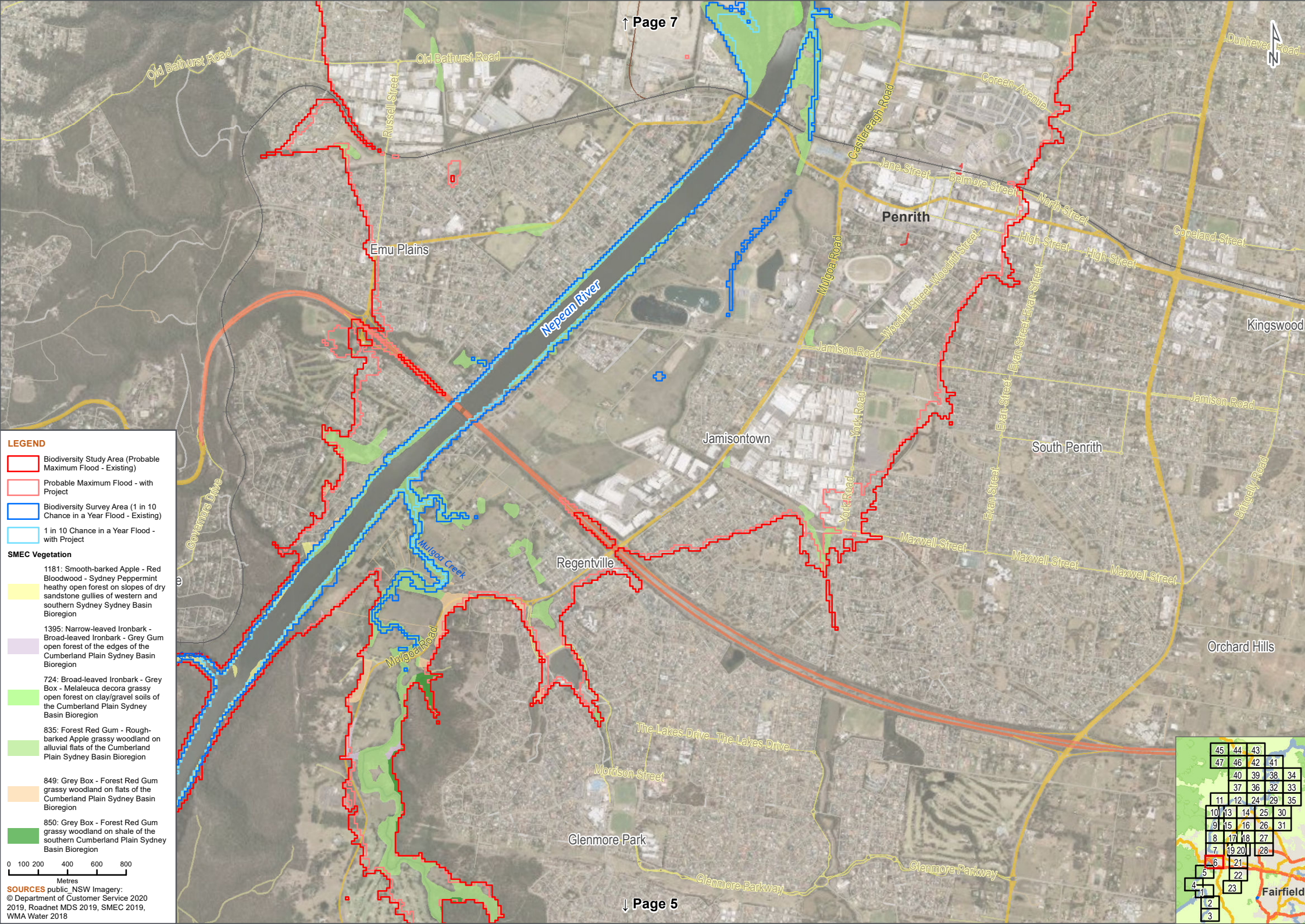
## SMEC Vegetation

- 1181: Smooth-barked Apple - Red Bloodwood - Sydney Peppermint heathy open forest on slopes of dry sandstone gullies of western and southern Sydney Sydney Basin Bioregion
- 1395: Narrow-leaved Ironbark - Broad-leaved Ironbark - Grey Gum open forest of the edges of the Cumberland Plain Sydney Basin Bioregion
- 835: Forest Red Gum - Rough-barked Apple grassy woodland on alluvial flats of the Cumberland Plain Sydney Basin Bioregion
- 849: Grey Box - Forest Red Gum grassy woodland on flats of the Cumberland Plain Sydney Basin Bioregion
- 850: Grey Box - Forest Red Gum grassy woodland on shale of the southern Cumberland Plain Sydney Basin Bioregion



SOURCES public\_NSW Imagery:  
© Department of Customer Service 2020  
2019, Roadnet MDS 2019, SMEC 2019,  
WMA Water 2018





**LEGEND**

Biodiversity Study Area (Probable Maximum Flood - Existing)

Probable Maximum Flood - with Project

Biodiversity Survey Area (1 in 10 Chance in a Year Flood - Existing)

1 in 10 Chance in a Year Flood - with Project

**SMEC Vegetation**

1181: Smooth-barked Apple - Red Bloodwood - Sydney Peppermint heathy open forest on slopes of dry sandstone gullies of western and southern Sydney Sydney Basin Bioregion

1395: Narrow-leaved Ironbark - Broad-leaved Ironbark - Grey Gum open forest of the edges of the Cumberland Plain Sydney Basin Bioregion

724: Broad-leaved Ironbark - Grey Box - Melaleuca decora grassy open forest on clay/gravel soils of the Cumberland Plain Sydney Basin Bioregion

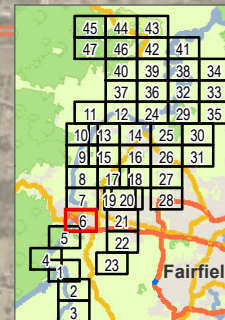
835: Forest Red Gum - Rough-barked Apple grassy woodland on alluvial flats of the Cumberland Plain Sydney Basin Bioregion

849: Grey Box - Forest Red Gum grassy woodland on flats of the Cumberland Plain Sydney Basin Bioregion

850: Grey Box - Forest Red Gum grassy woodland on shale of the southern Cumberland Plain Sydney Basin Bioregion

0 100 200 400 600 800  
Metres

**SOURCES** public\_NSW Imagery:  
© Department of Customer Service 2020  
2019, Roadnet MDS 2019, SMEC 2019,  
WMA Water 2018





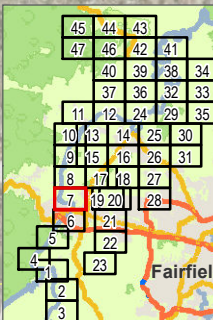


- LEGEND**
- Biodiversity Study Area (Probable Maximum Flood - Existing)
  - Probable Maximum Flood - with Project
  - Biodiversity Survey Area (1 in 10 Chance in a Year Flood - Existing)
  - 1 in 10 Chance in a Year Flood - with Project

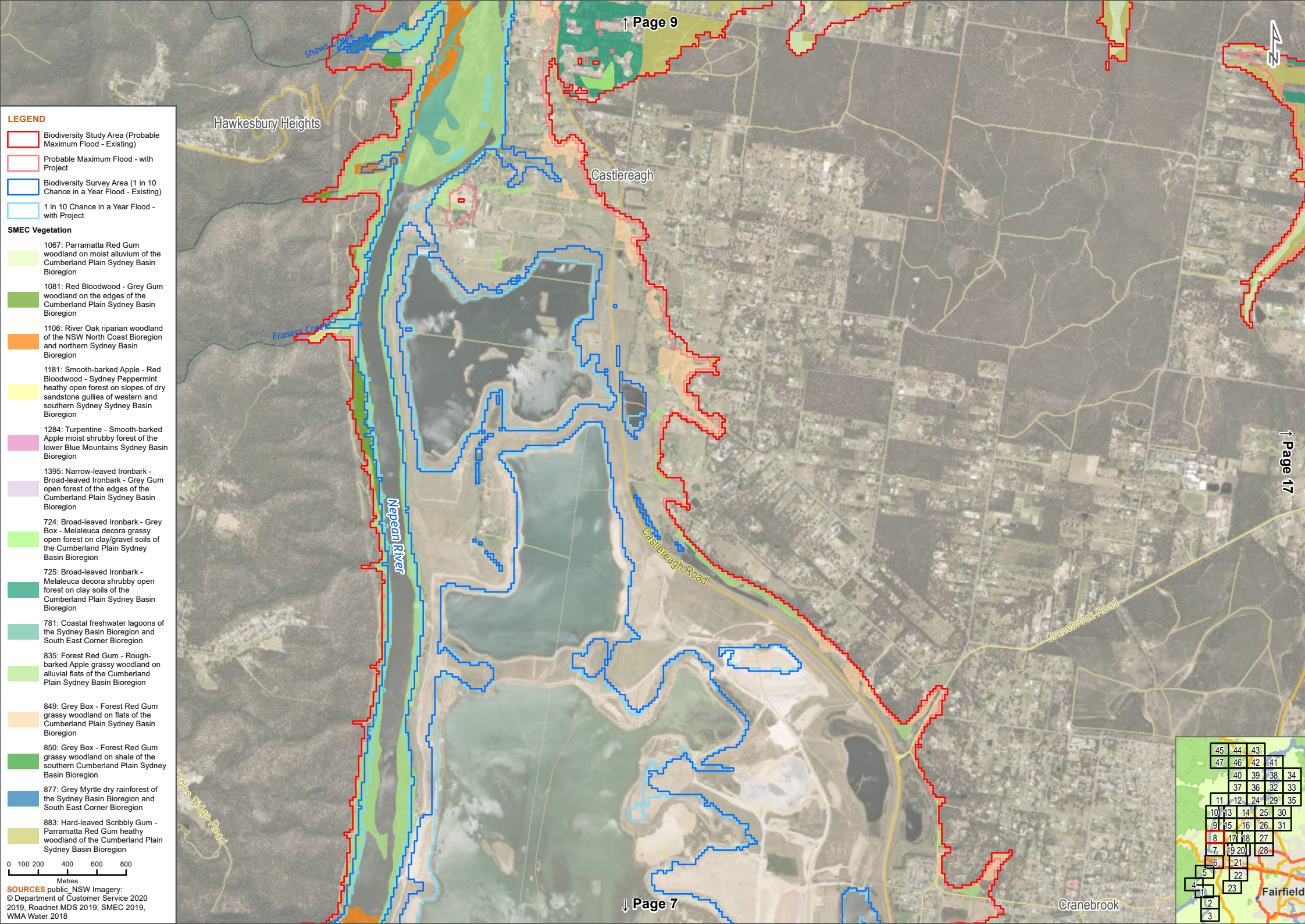
- SMEC Vegetation**
- 1106: River Oak riparian woodland of the NSW North Coast Bioregion and northern Sydney Basin Bioregion
  - 1181: Smooth-barked Apple - Red Bloodwood - Sydney Peppermint heathy open forest on slopes of dry sandstone gullies of western and southern Sydney Sydney Basin Bioregion
  - 1284: Turpentine - Smooth-barked Apple moist shrubby forest of the lower Blue Mountains Sydney Basin Bioregion
  - 1395: Narrow-leaved Ironbark - Broad-leaved Ironbark - Grey Gum open forest of the edges of the Cumberland Plain Sydney Basin Bioregion
  - 724: Broad-leaved Ironbark - Grey Box - Melaleuca decora grassy open forest on clay/gravel soils of the Cumberland Plain Sydney Basin Bioregion
  - 781: Coastal freshwater lagoons of the Sydney Basin Bioregion and South East Corner Bioregion
  - 835: Forest Red Gum - Rough-barked Apple grassy woodland on alluvial flats of the Cumberland Plain Sydney Basin Bioregion
  - 849: Grey Box - Forest Red Gum grassy woodland on flats of the Cumberland Plain Sydney Basin Bioregion
  - 877: Grey Myrtle dry rainforest of the Sydney Basin Bioregion and South East Corner Bioregion

0 100 200 400 600 800  
Metres

**SOURCES** public\_NSW Imagery:  
© Department of Customer Service 2020  
2019, Roadnet MDS 2019, SMEC 2019,  
WMA Water 2018







**LEGEND**

Biodiversity Study Area (Probable Maximum Flood - Existing)

Probable Maximum Flood - with Project

Biodiversity Survey Area (1 in 10 Chance in a Year Flood - Existing)

1 in 10 Chance in a Year Flood - with Project

**SMEC Vegetation**

1067: Parramatta Red Gum woodland on moist alluvium of the Cumberland Plain Sydney Basin Bioregion

1081: Red Bloodwood - Grey Gum woodland on the edges of the Cumberland Plain Sydney Basin Bioregion

1106: River Oak riparian woodland of the NSW North Coast Bioregion and northern Sydney Basin Bioregion

1181: Smooth-barked Apple - Red Bloodwood - Sydney Peppermint heathy open forest on slopes of dry sandstone gullies of western and southern Sydney Sydney Basin Bioregion

1284: Turpentine - Smooth-barked Apple moist shrubby forest of the lower Blue Mountains Sydney Basin Bioregion

1395: Narrow-leaved Ironbark - Broad-leaved Ironbark - Grey Gum open forest of the edges of the Cumberland Plain Sydney Basin Bioregion

724: Broad-leaved Ironbark - Grey Box - Melaleuca decora grassy open forest on clay/gravel soils of the Cumberland Plain Sydney Basin Bioregion

725: Broad-leaved Ironbark - Melaleuca decora shrubby open forest on clay soils of the Cumberland Plain Sydney Basin Bioregion

781: Coastal freshwater lagoons of the Sydney Basin Bioregion and South East Corner Bioregion

835: Forest Red Gum - Rough-barked Apple grassy woodland on alluvial flats of the Cumberland Plain Sydney Basin Bioregion

849: Grey Box - Forest Red Gum grassy woodland on flats of the Cumberland Plain Sydney Basin Bioregion

850: Grey Box - Forest Red Gum grassy woodland on shale of the southern Cumberland Plain Sydney Basin Bioregion

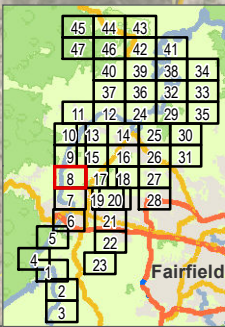
877: Grey Myrtle dry rainforest of the Sydney Basin Bioregion and South East Corner Bioregion

883: Hard-leaved Scribbly Gum - Parramatta Red Gum heathy woodland of the Cumberland Plain Sydney Basin Bioregion

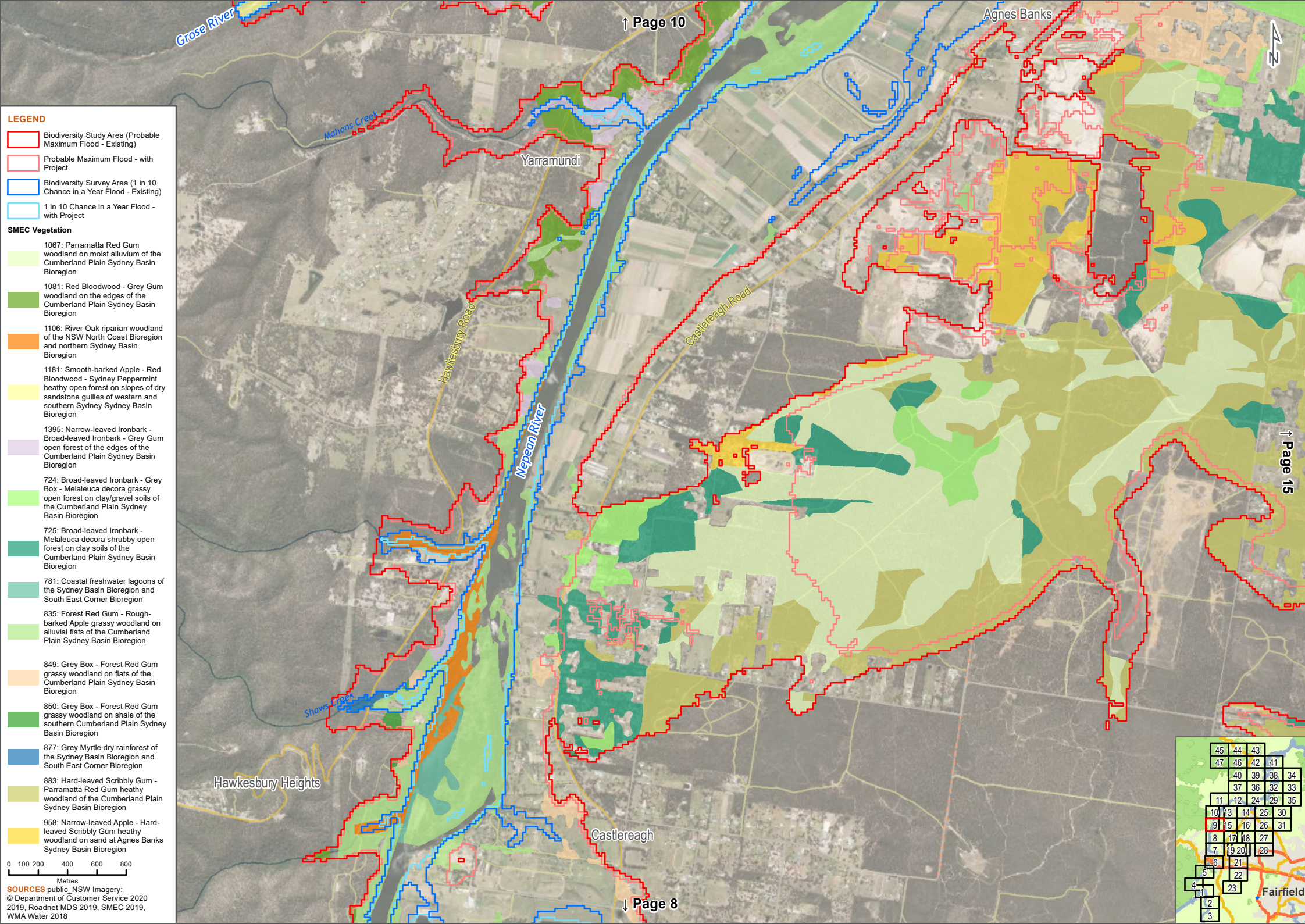
0 100 200 400 600 800

Metres

**SOURCES** public\_NSW Imagery:  
© Department of Customer Service 2020  
2019, Roadnet MDS 2019, SMEC 2019, WMA Water 2018







**LEGEND**

- Biodiversity Study Area (Probable Maximum Flood - Existing)
- Probable Maximum Flood - with Project
- Biodiversity Survey Area (1 in 10 Chance in a Year Flood - Existing)
- 1 in 10 Chance in a Year Flood - with Project

**SMEC Vegetation**

- 1067: Parramatta Red Gum woodland on moist alluvium of the Cumberland Plain Sydney Basin Bioregion
- 1081: Red Bloodwood - Grey Gum woodland on the edges of the Cumberland Plain Sydney Basin Bioregion
- 1106: River Oak riparian woodland of the NSW North Coast Bioregion and northern Sydney Basin Bioregion
- 1181: Smooth-barked Apple - Red Bloodwood - Sydney Peppermint heathy open forest on slopes of dry sandstone gullies of western and southern Sydney Basin Bioregion
- 1395: Narrow-leaved Ironbark - Broad-leaved Ironbark - Grey Gum open forest of the edges of the Cumberland Plain Sydney Basin Bioregion
- 724: Broad-leaved Ironbark - Grey Box - Melaleuca decora grassy open forest on clay/gravel soils of the Cumberland Plain Sydney Basin Bioregion
- 725: Broad-leaved Ironbark - Melaleuca decora shrubby open forest on clay soils of the Cumberland Plain Sydney Basin Bioregion
- 781: Coastal freshwater lagoons of the Sydney Basin Bioregion and South East Corner Bioregion
- 835: Forest Red Gum - Rough-barked Apple grassy woodland on alluvial flats of the Cumberland Plain Sydney Basin Bioregion
- 849: Grey Box - Forest Red Gum grassy woodland on flats of the Cumberland Plain Sydney Basin Bioregion
- 850: Grey Box - Forest Red Gum grassy woodland on shale of the southern Cumberland Plain Sydney Basin Bioregion
- 877: Grey Myrtle dry rainforest of the Sydney Basin Bioregion and South East Corner Bioregion
- 883: Hard-leaved Scribbly Gum - Parramatta Red Gum heathy woodland of the Cumberland Plain Sydney Basin Bioregion
- 958: Narrow-leaved Apple - Hard-leaved Scribbly Gum heathy woodland on sand at Agnes Banks Sydney Basin Bioregion

0 100 200 400 600 800  
Metres

**SOURCES** public\_NSW Imagery:  
© Department of Customer Service 2020  
2019, Roadnet MDS 2019, SMEC 2019,  
WMA Water 2018

45	44	43		
47	46	42	41	
	37	36	32	33
11	12	24	29	35
10	13	14	25	30
9	15	16	26	31
8	17	18	27	
7	19	20	28	
6		21		
5		22		
4		23		
3				





**LEGEND**

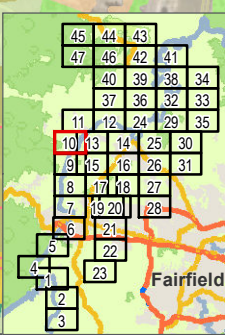
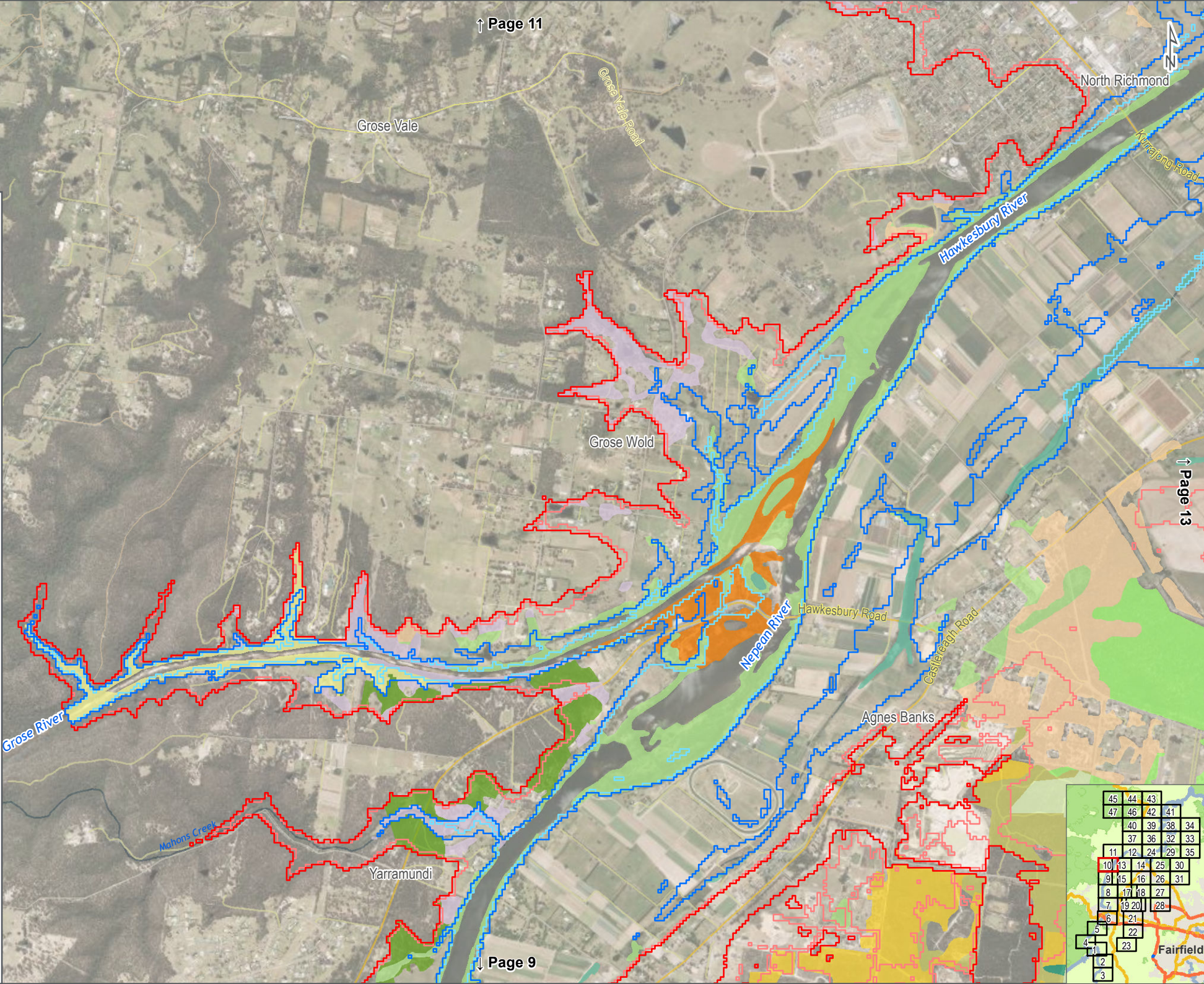
- Biodiversity Study Area (Probable Maximum Flood - Existing)
- Probable Maximum Flood - with Project
- Biodiversity Survey Area (1 in 10 Chance in a Year Flood - Existing)
- 1 in 10 Chance in a Year Flood - with Project

**SMEC Vegetation**

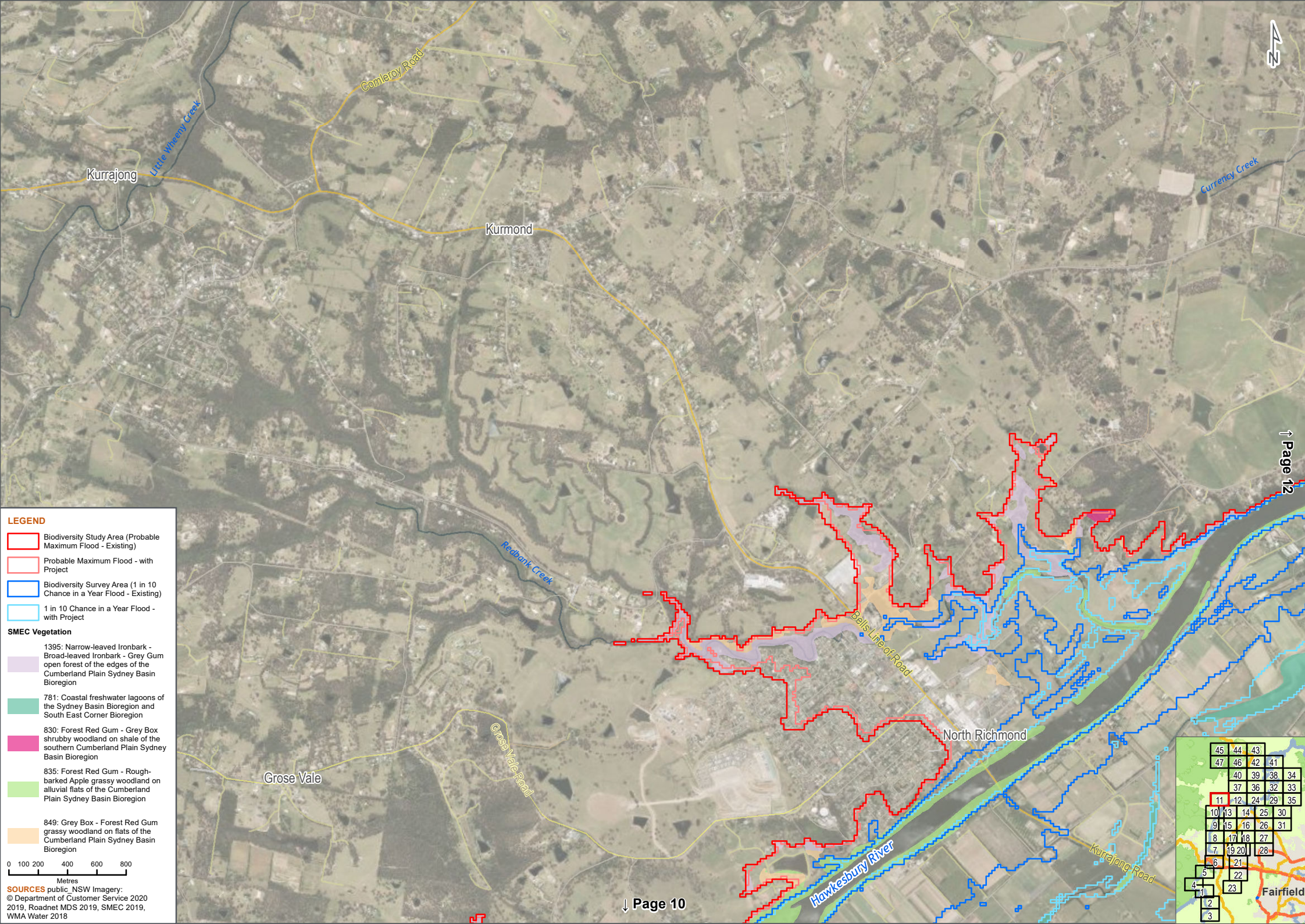
- 1067: Parramatta Red Gum woodland on moist alluvium of the Cumberland Plain Sydney Basin Bioregion
- 1081: Red Bloodwood - Grey Gum woodland on the edges of the Cumberland Plain Sydney Basin Bioregion
- 1106: River Oak riparian woodland of the NSW North Coast Bioregion and northern Sydney Basin Bioregion
- 1181: Smooth-barked Apple - Red Bloodwood - Sydney Peppermint heathy open forest on slopes of dry sandstone gullies of western and southern Sydney Basin Bioregion
- 1395: Narrow-leaved Ironbark - Broad-leaved Ironbark - Grey Gum open forest of the edges of the Cumberland Plain Sydney Basin Bioregion
- 724: Broad-leaved Ironbark - Grey Box - Melaleuca decora grassy open forest on clay/gravel soils of the Cumberland Plain Sydney Basin Bioregion
- 725: Broad-leaved Ironbark - Melaleuca decora shrubby open forest on clay soils of the Cumberland Plain Sydney Basin Bioregion
- 781: Coastal freshwater lagoons of the Sydney Basin Bioregion and South East Corner Bioregion
- 835: Forest Red Gum - Rough-barked Apple grassy woodland on alluvial flats of the Cumberland Plain Sydney Basin Bioregion
- 849: Grey Box - Forest Red Gum grassy woodland on flats of the Cumberland Plain Sydney Basin Bioregion
- 883: Hard-leaved Scribbly Gum - Parramatta Red Gum heathy woodland of the Cumberland Plain Sydney Basin Bioregion
- 958: Narrow-leaved Apple - Hard-leaved Scribbly Gum heathy woodland on sand at Agnes Banks Sydney Basin Bioregion

0 100 200 400 600 800  
Metres

**SOURCES** public\_NSW Imagery:  
© Department of Customer Service 2020  
2019, Roadnet MDS 2019, SMEC 2019, WMA Water 2018







**LEGEND**

- Biodiversity Study Area (Probable Maximum Flood - Existing)
- Probable Maximum Flood - with Project
- Biodiversity Survey Area (1 in 10 Chance in a Year Flood - Existing)
- 1 in 10 Chance in a Year Flood - with Project

**SMEC Vegetation**

- 1395: Narrow-leaved Ironbark - Broad-leaved Ironbark - Grey Gum open forest of the edges of the Cumberland Plain Sydney Basin Bioregion
- 781: Coastal freshwater lagoons of the Sydney Basin Bioregion and South East Corner Bioregion
- 830: Forest Red Gum - Grey Box shrubby woodland on shale of the southern Cumberland Plain Sydney Basin Bioregion
- 835: Forest Red Gum - Rough-barked Apple grassy woodland on alluvial flats of the Cumberland Plain Sydney Basin Bioregion
- 849: Grey Box - Forest Red Gum grassy woodland on flats of the Cumberland Plain Sydney Basin Bioregion

**SOURCES** public\_NSW Imagery:  
© Department of Customer Service 2020  
2019, Roadnet MDS 2019, SMEC 2019, WMA Water 2018

45	44	43
47	46	42
40	39	38
37	36	32
11	12	24
10	13	14
19	15	16
8	17	18
7	19	20
6	21	28
5	22	
4	23	
2		
3		





↑ Page 11

↑ Page 37

↑ Page 24

↓ Page 14

**LEGEND**

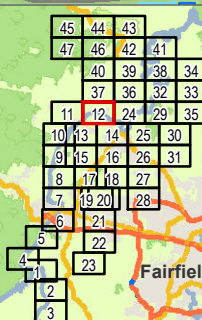
- Biodiversity Study Area (Probable Maximum Flood - Existing)
- Probable Maximum Flood - with Project
- Biodiversity Survey Area (1 in 10 Chance in a Year Flood - Existing)
- 1 in 10 Chance in a Year Flood - with Project

**SMEC Vegetation**

- 1395: Narrow-leaved Ironbark - Broad-leaved Ironbark - Grey Gum open forest of the edges of the Cumberland Plain Sydney Basin Bioregion
- 781: Coastal freshwater lagoons of the Sydney Basin Bioregion and South East Corner Bioregion
- 830: Forest Red Gum - Grey Box shrubby woodland on shale of the southern Cumberland Plain Sydney Basin Bioregion
- 835: Forest Red Gum - Rough-barked Apple grassy woodland on alluvial flats of the Cumberland Plain Sydney Basin Bioregion
- 849: Grey Box - Forest Red Gum grassy woodland on flats of the Cumberland Plain Sydney Basin Bioregion
- 877: Grey Myrtle dry rainforest of the Sydney Basin Bioregion and South East Corner Bioregion

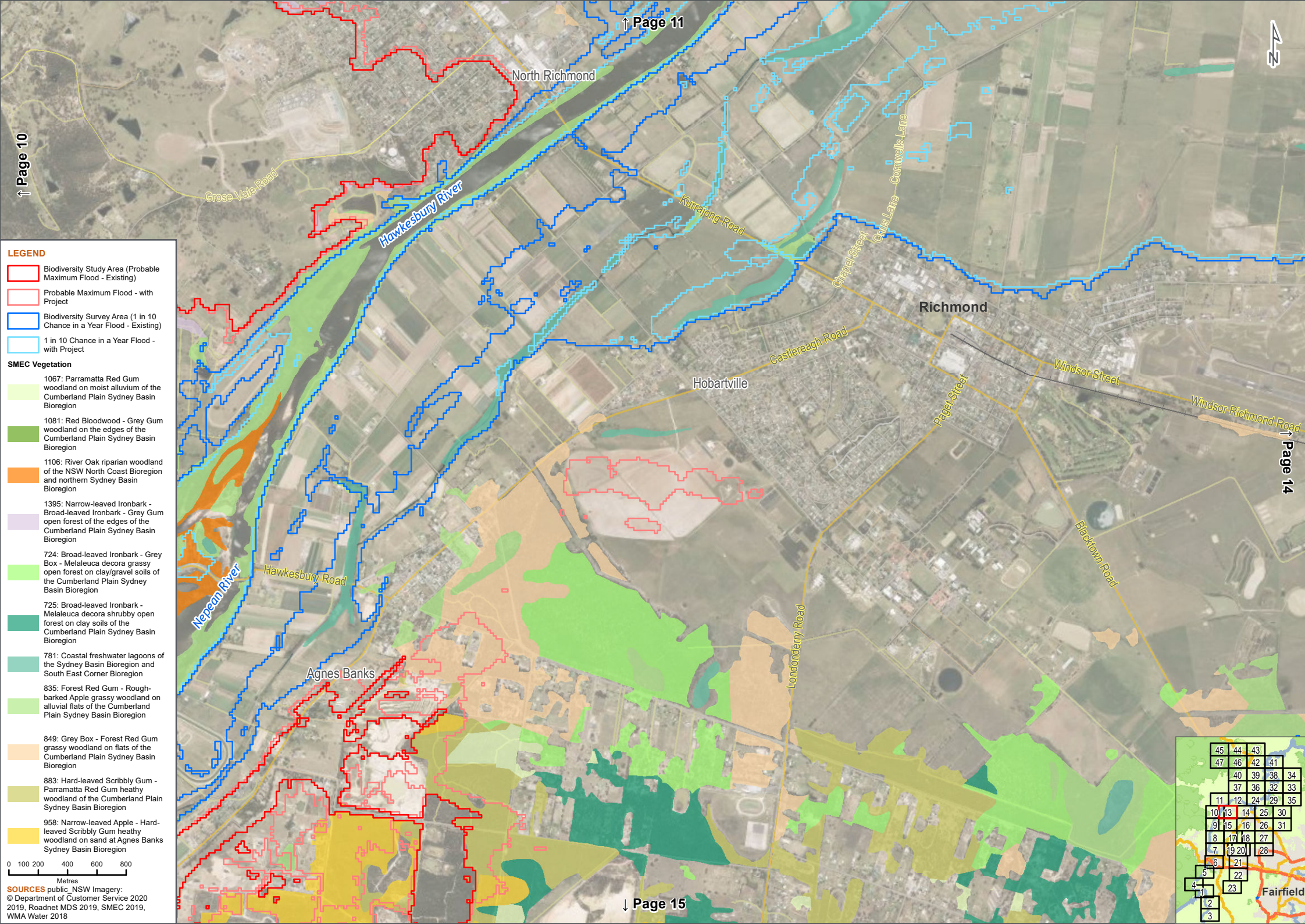
0 100 200 400 600 800  
Metres

**SOURCES** public\_NSW Imagery:  
© Department of Customer Service 2020  
2019, Roadnet MDS 2019, SMEC 2019,  
WMA Water 2018



Fairfield





**LEGEND**

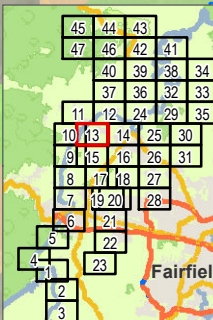
- Biodiversity Study Area (Probable Maximum Flood - Existing)
- Probable Maximum Flood - with Project
- Biodiversity Survey Area (1 in 10 Chance in a Year Flood - Existing)
- 1 in 10 Chance in a Year Flood - with Project

**SMEC Vegetation**

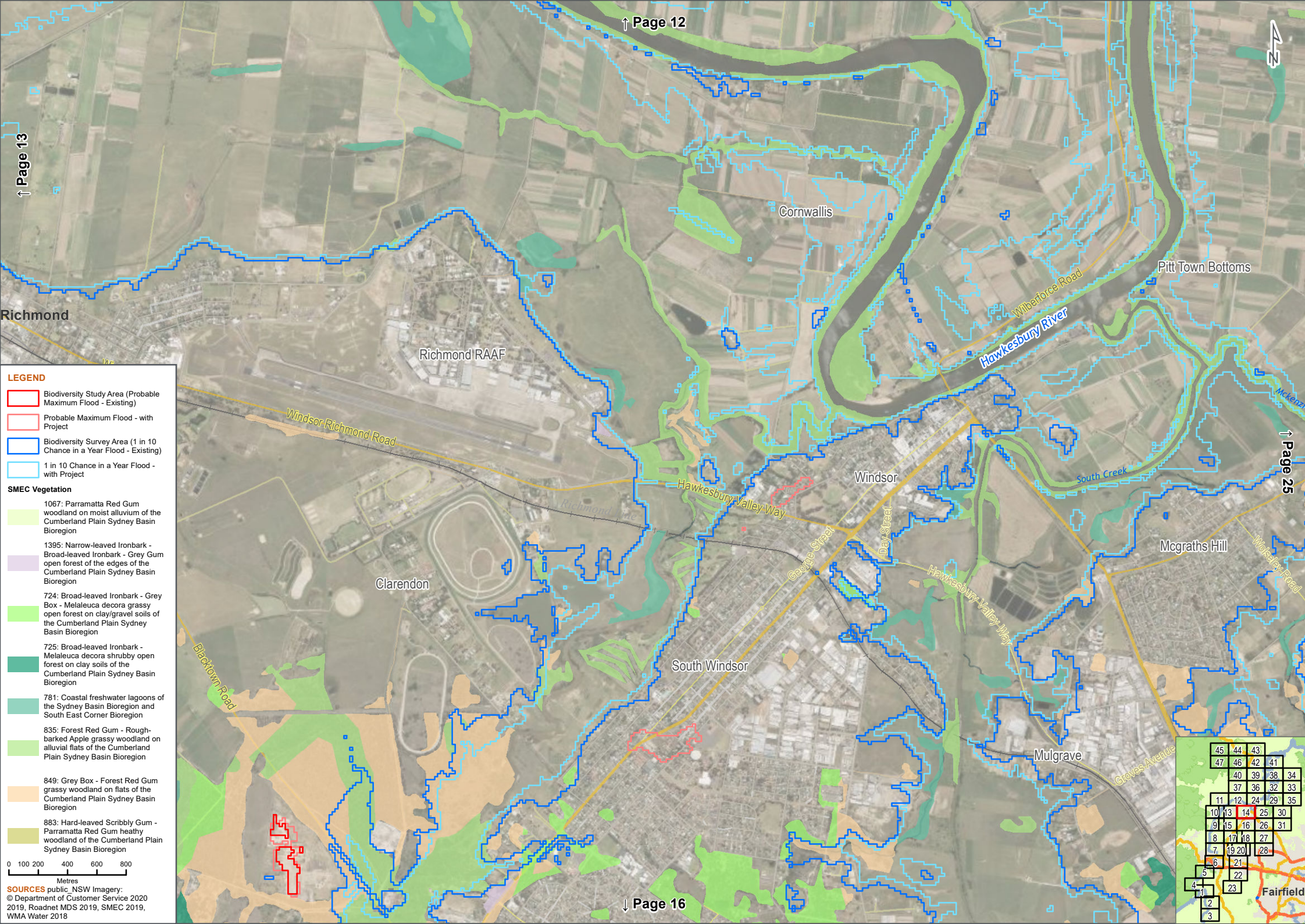
- 1067: Parramatta Red Gum woodland on moist alluvium of the Cumberland Plain Sydney Basin Bioregion
- 1081: Red Bloodwood - Grey Gum woodland on the edges of the Cumberland Plain Sydney Basin Bioregion
- 1106: River Oak riparian woodland of the NSW North Coast Bioregion and northern Sydney Basin Bioregion
- 1395: Narrow-leaved Ironbark - Broad-leaved Ironbark - Grey Gum open forest of the edges of the Cumberland Plain Sydney Basin Bioregion
- 724: Broad-leaved Ironbark - Grey Box - Melaleuca decora grassy open forest on clay/gravel soils of the Cumberland Plain Sydney Basin Bioregion
- 725: Broad-leaved Ironbark - Melaleuca decora shrubby open forest on clay soils of the Cumberland Plain Sydney Basin Bioregion
- 781: Coastal freshwater lagoons of the Sydney Basin Bioregion and South East Corner Bioregion
- 835: Forest Red Gum - Rough-barked Apple grassy woodland on alluvial flats of the Cumberland Plain Sydney Basin Bioregion
- 849: Grey Box - Forest Red Gum grassy woodland on flats of the Cumberland Plain Sydney Basin Bioregion
- 883: Hard-leaved Scribbly Gum - Parramatta Red Gum heathy woodland of the Cumberland Plain Sydney Basin Bioregion
- 958: Narrow-leaved Apple - Hard-leaved Scribbly Gum heathy woodland on sand at Agnes Banks Sydney Basin Bioregion

0 100 200 400 600 800  
Metres

**SOURCES** public\_NSW Imagery:  
© Department of Customer Service 2020  
2019, Roadnet MDS 2019, SMEC 2019, WMA Water 2018







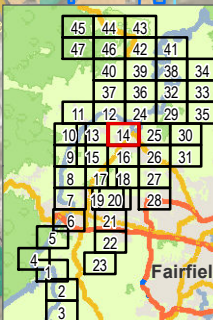
**LEGEND**

- Biodiversity Study Area (Probable Maximum Flood - Existing)
- Probable Maximum Flood - with Project
- Biodiversity Survey Area (1 in 10 Chance in a Year Flood - Existing)
- 1 in 10 Chance in a Year Flood - with Project

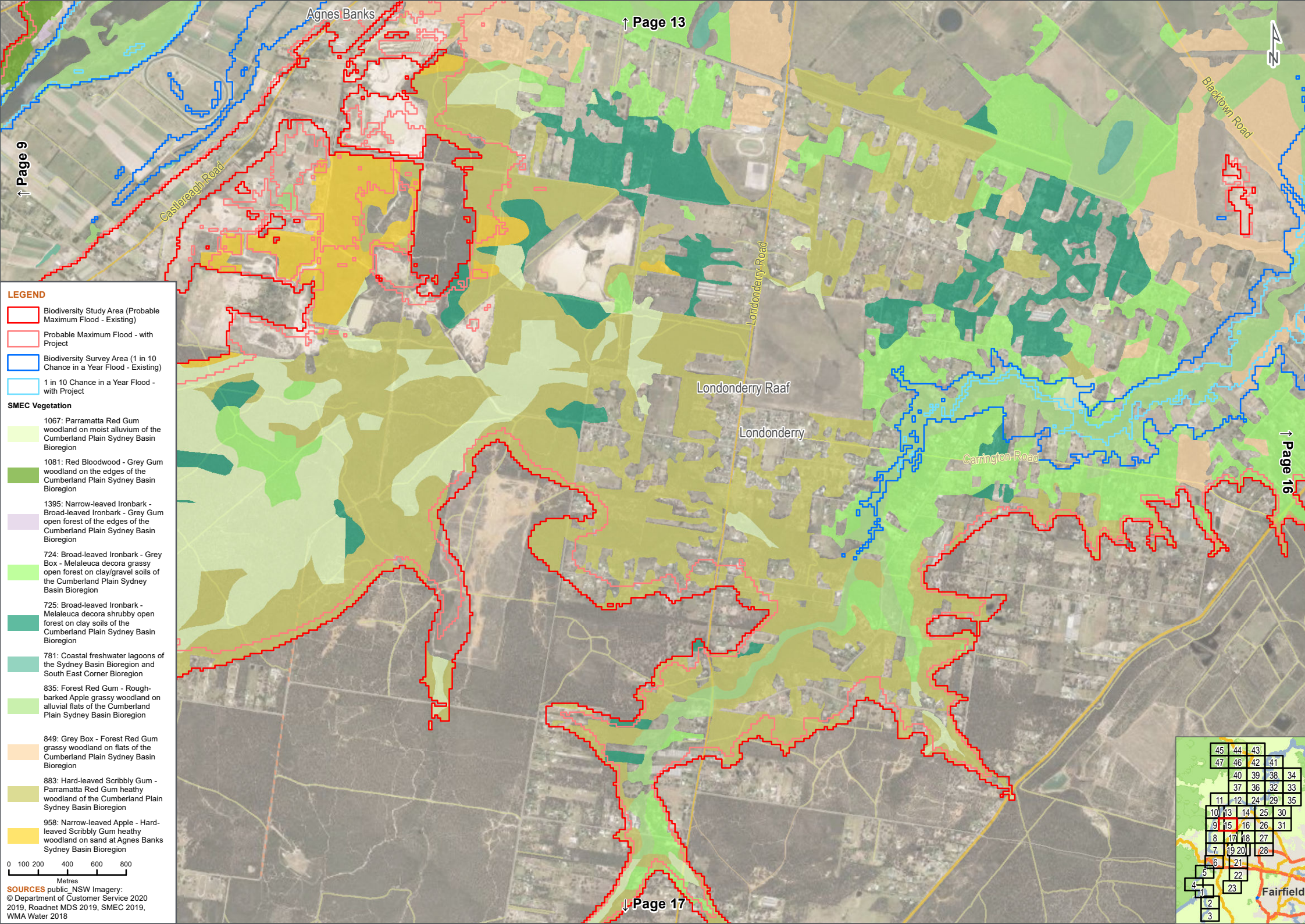
**SMEC Vegetation**

- 1067: Parramatta Red Gum woodland on moist alluvium of the Cumberland Plain Sydney Basin Bioregion
- 1395: Narrow-leaved Ironbark - Broad-leaved Ironbark - Grey Gum open forest of the edges of the Cumberland Plain Sydney Basin Bioregion
- 724: Broad-leaved Ironbark - Grey Box - Melaleuca decora grassy open forest on clay/gravel soils of the Cumberland Plain Sydney Basin Bioregion
- 725: Broad-leaved Ironbark - Melaleuca decora shrubby open forest on clay soils of the Cumberland Plain Sydney Basin Bioregion
- 781: Coastal freshwater lagoons of the Sydney Basin Bioregion and South East Corner Bioregion
- 835: Forest Red Gum - Rough-barked Apple grassy woodland on alluvial flats of the Cumberland Plain Sydney Basin Bioregion
- 849: Grey Box - Forest Red Gum grassy woodland on flats of the Cumberland Plain Sydney Basin Bioregion
- 883: Hard-leaved Scribbly Gum - Parramatta Red Gum heathy woodland of the Cumberland Plain Sydney Basin Bioregion

**SOURCES** public\_NSW Imagery:  
© Department of Customer Service 2020  
2019, Roadnet MDS 2019, SMEC 2019, WMA Water 2018







LEGEND

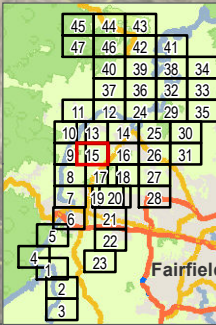
- Biodiversity Study Area (Probable Maximum Flood - Existing)
- Probable Maximum Flood - with Project
- Biodiversity Survey Area (1 in 10 Chance in a Year Flood - Existing)
- 1 in 10 Chance in a Year Flood - with Project

SMEC Vegetation

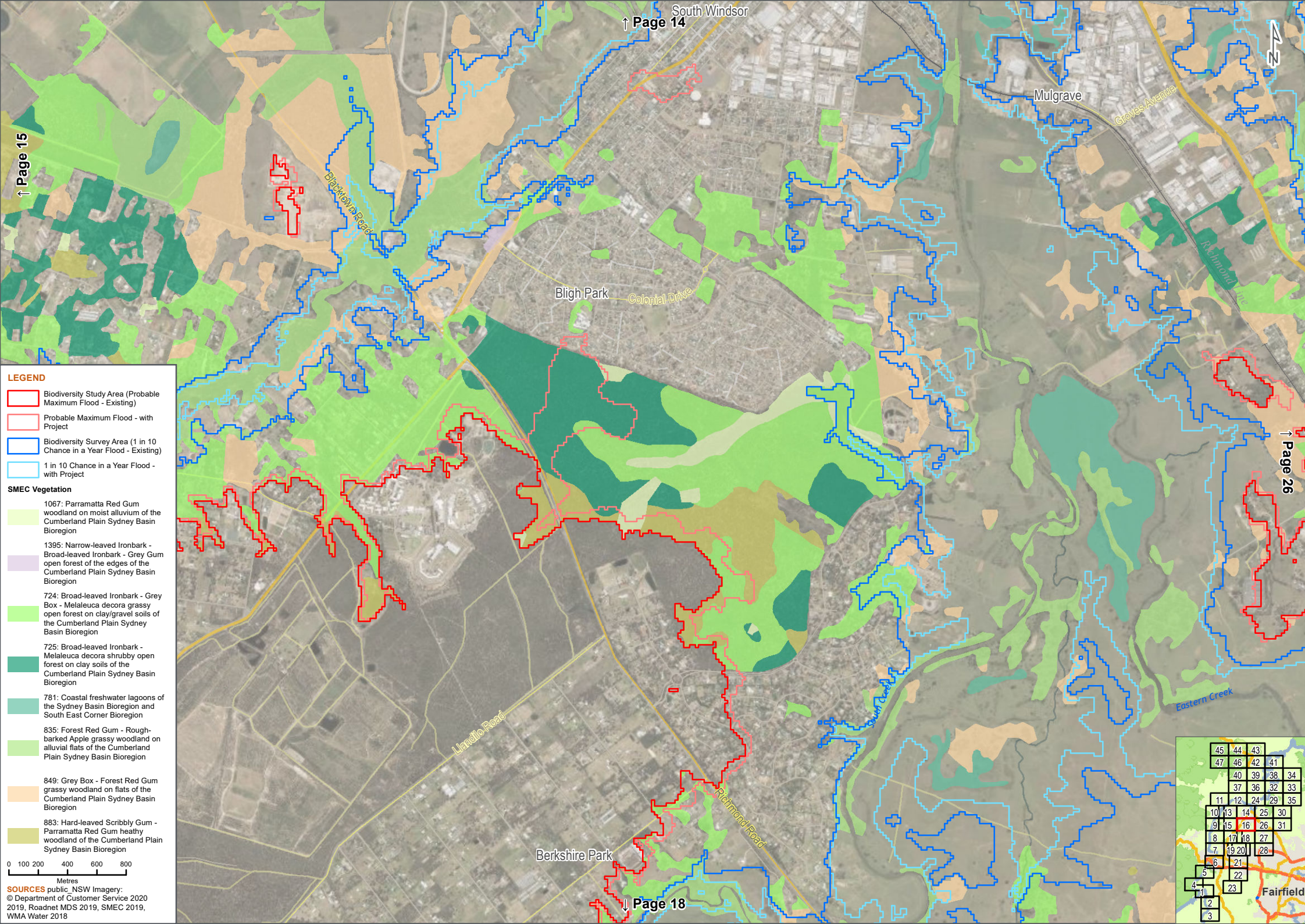
- 1067: Parramatta Red Gum woodland on moist alluvium of the Cumberland Plain Sydney Basin Bioregion
- 1081: Red Bloodwood - Grey Gum woodland on the edges of the Cumberland Plain Sydney Basin Bioregion
- 1395: Narrow-leaved Ironbark - Broad-leaved Ironbark - Grey Gum open forest of the edges of the Cumberland Plain Sydney Basin Bioregion
- 724: Broad-leaved Ironbark - Grey Box - Melaleuca decora grassy open forest on clay/gravel soils of the Cumberland Plain Sydney Basin Bioregion
- 725: Broad-leaved Ironbark - Melaleuca decora shrubby open forest on clay soils of the Cumberland Plain Sydney Basin Bioregion
- 781: Coastal freshwater lagoons of the Sydney Basin Bioregion and South East Corner Bioregion
- 835: Forest Red Gum - Rough-barked Apple grassy woodland on alluvial flats of the Cumberland Plain Sydney Basin Bioregion
- 849: Grey Box - Forest Red Gum grassy woodland on flats of the Cumberland Plain Sydney Basin Bioregion
- 883: Hard-leaved Scribbly Gum - Parramatta Red Gum heathy woodland of the Cumberland Plain Sydney Basin Bioregion
- 958: Narrow-leaved Apple - Hard-leaved Scribbly Gum heathy woodland on sand at Agnes Banks Sydney Basin Bioregion

0 100 200 400 600 800  
Metres

SOURCES public\_NSW Imagery:  
© Department of Customer Service 2020  
2019, Roadnet MDS 2019, SMEC 2019,  
WMA Water 2018







**LEGEND**

- Biodiversity Study Area (Probable Maximum Flood - Existing)
- Probable Maximum Flood - with Project
- Biodiversity Survey Area (1 in 10 Chance in a Year Flood - Existing)
- 1 in 10 Chance in a Year Flood - with Project

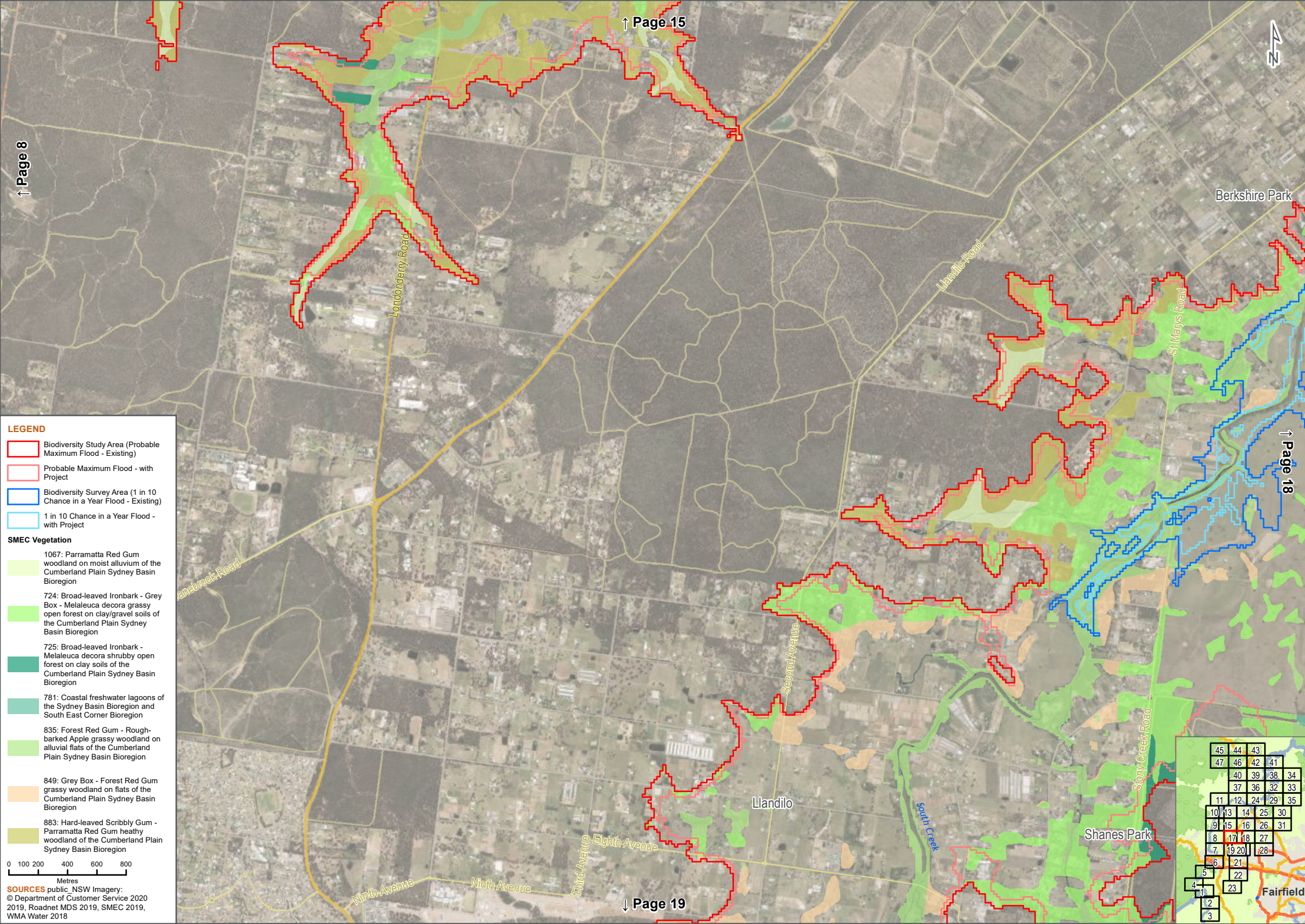
**SMEC Vegetation**

- 1067: Parramatta Red Gum woodland on moist alluvium of the Cumberland Plain Sydney Basin Bioregion
- 1395: Narrow-leaved Ironbark - Broad-leaved Ironbark - Grey Gum open forest of the edges of the Cumberland Plain Sydney Basin Bioregion
- 724: Broad-leaved Ironbark - Grey Box - Melaleuca decora grassy open forest on clay/gravel soils of the Cumberland Plain Sydney Basin Bioregion
- 725: Broad-leaved Ironbark - Melaleuca decora shrubby open forest on clay soils of the Cumberland Plain Sydney Basin Bioregion
- 781: Coastal freshwater lagoons of the Sydney Basin Bioregion and South East Corner Bioregion
- 835: Forest Red Gum - Rough-barked Apple grassy woodland on alluvial flats of the Cumberland Plain Sydney Basin Bioregion
- 849: Grey Box - Forest Red Gum grassy woodland on flats of the Cumberland Plain Sydney Basin Bioregion
- 883: Hard-leaved Scribbly Gum - Parramatta Red Gum heathy woodland of the Cumberland Plain Sydney Basin Bioregion

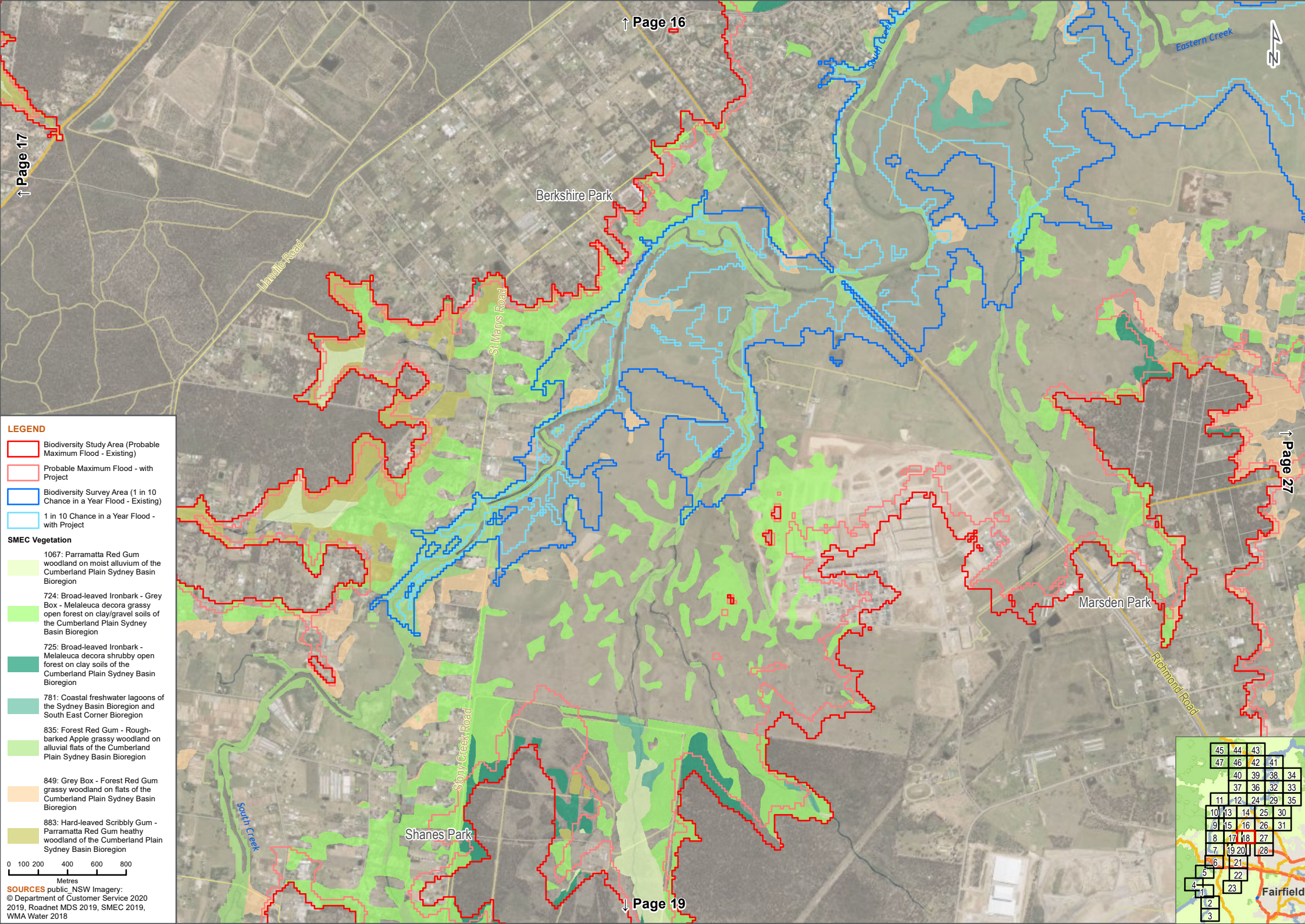
**SOURCES** public\_NSW Imagery:  
© Department of Customer Service 2020  
2019, Roadnet MDS 2019, SMEC 2019, WMA Water 2018

45	44	43		
47	46	42	41	
	40	39	38	34
	37	36	32	33
11	12	24	29	35
10	13	14	25	30
9	15	16	26	31
8	17	18	27	
7	19	20	28	
6	21			
5	22			
4	23			
3				









**LEGEND**

Biodiversity Study Area (Probable Maximum Flood - Existing)

Probable Maximum Flood - with Project

Biodiversity Survey Area (1 in 10 Chance in a Year Flood - Existing)

1 in 10 Chance in a Year Flood - with Project

**SMEC Vegetation**

1067: Parramatta Red Gum woodland on moist alluvium of the Cumberland Plain Sydney Basin Bioregion

724: Broad-leaved Ironbark - Grey Box - Melaleuca decora grassy open forest on clay/gravel soils of the Cumberland Plain Sydney Basin Bioregion

725: Broad-leaved Ironbark - Melaleuca decora shrubby open forest on clay soils of the Cumberland Plain Sydney Basin Bioregion

781: Coastal freshwater lagoons of the Sydney Basin Bioregion and South East Corner Bioregion

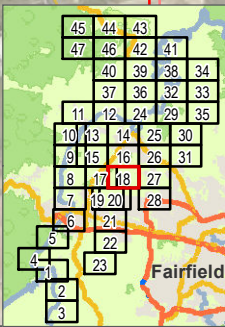
835: Forest Red Gum - Rough-barked Apple grassy woodland on alluvial flats of the Cumberland Plain Sydney Basin Bioregion

849: Grey Box - Forest Red Gum grassy woodland on flats of the Cumberland Plain Sydney Basin Bioregion

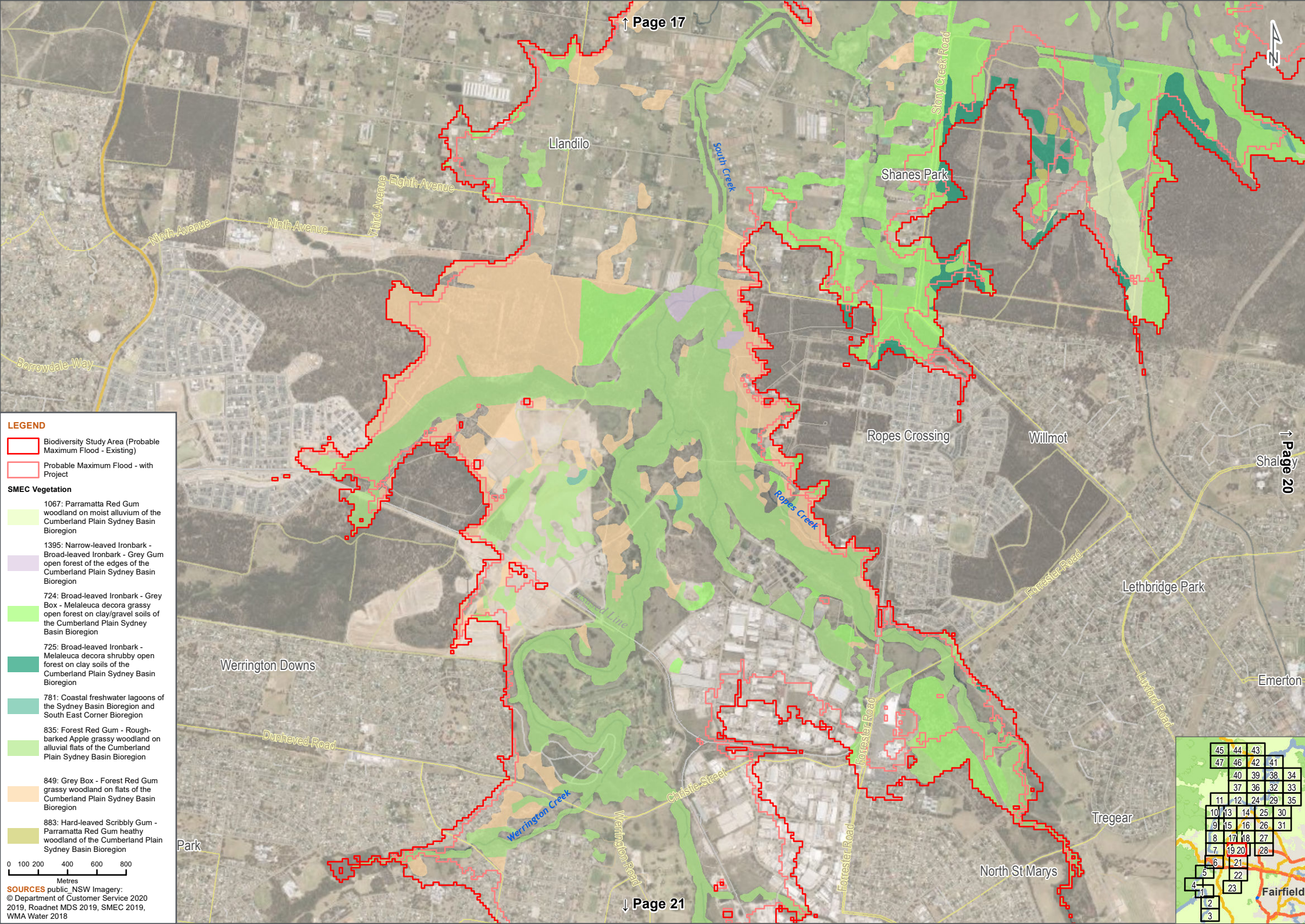
883: Hard-leaved Scribbly Gum - Parramatta Red Gum heathy woodland of the Cumberland Plain Sydney Basin Bioregion

0 100 200 400 600 800  
Metres

**SOURCES** public\_NSW Imagery:  
© Department of Customer Service 2020  
2019, Roadnet MDS 2019, SMEC 2019, WMA Water 2018







**LEGEND**

Biodiversity Study Area (Probable Maximum Flood - Existing)

Probable Maximum Flood - with Project

**SMEC Vegetation**

1067: Parramatta Red Gum woodland on moist alluvium of the Cumberland Plain Sydney Basin Bioregion

1395: Narrow-leaved Ironbark - Broad-leaved Ironbark - Grey Gum open forest of the edges of the Cumberland Plain Sydney Basin Bioregion

724: Broad-leaved Ironbark - Grey Box - Melaleuca decora grassy open forest on clay/gravel soils of the Cumberland Plain Sydney Basin Bioregion

725: Broad-leaved Ironbark - Melaleuca decora shrubby open forest on clay soils of the Cumberland Plain Sydney Basin Bioregion

781: Coastal freshwater lagoons of the Sydney Basin Bioregion and South East Corner Bioregion

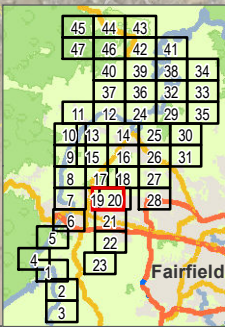
835: Forest Red Gum - Rough-barked Apple grassy woodland on alluvial flats of the Cumberland Plain Sydney Basin Bioregion

849: Grey Box - Forest Red Gum grassy woodland on flats of the Cumberland Plain Sydney Basin Bioregion

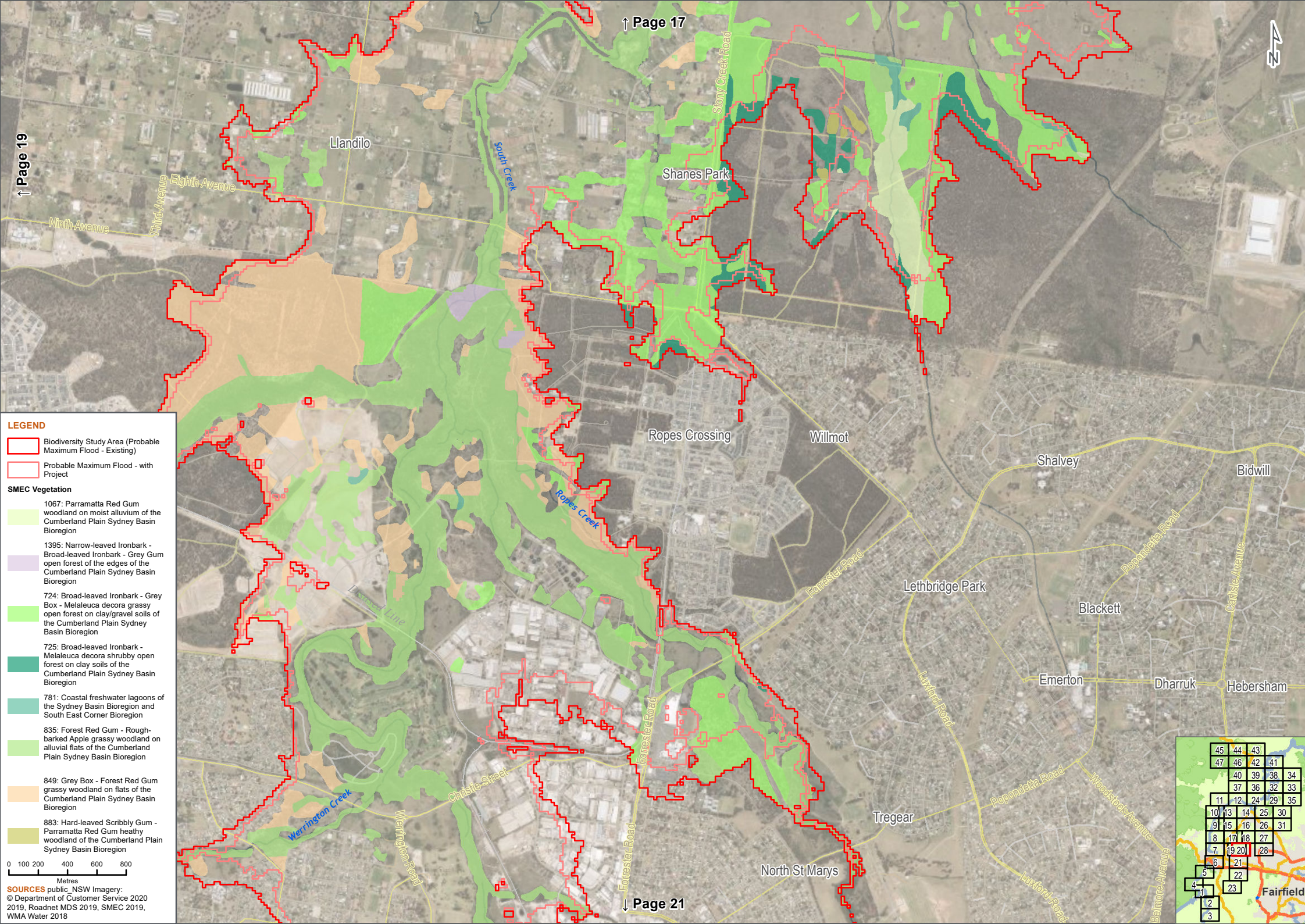
883: Hard-leaved Scribbly Gum - Parramatta Red Gum heathy woodland of the Cumberland Plain Sydney Basin Bioregion

0 100 200 400 600 800  
Metres

**SOURCES** public\_NSW Imagery:  
© Department of Customer Service 2020  
2019, Roadnet MDS 2019, SMEC 2019,  
WMA Water 2018







**LEGEND**

Biodiversity Study Area (Probable Maximum Flood - Existing)

Probable Maximum Flood - with Project

**SMEC Vegetation**

1067: Parramatta Red Gum woodland on moist alluvium of the Cumberland Plain Sydney Basin Bioregion

1395: Narrow-leaved Ironbark - Broad-leaved Ironbark - Grey Gum open forest of the edges of the Cumberland Plain Sydney Basin Bioregion

724: Broad-leaved Ironbark - Grey Box - Melaleuca decora grassy open forest on clay/gravel soils of the Cumberland Plain Sydney Basin Bioregion

725: Broad-leaved Ironbark - Melaleuca decora shrubby open forest on clay soils of the Cumberland Plain Sydney Basin Bioregion

781: Coastal freshwater lagoons of the Sydney Basin Bioregion and South East Corner Bioregion

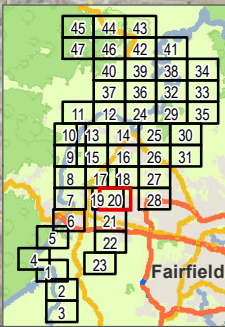
835: Forest Red Gum - Rough-barked Apple grassy woodland on alluvial flats of the Cumberland Plain Sydney Basin Bioregion

849: Grey Box - Forest Red Gum grassy woodland on flats of the Cumberland Plain Sydney Basin Bioregion

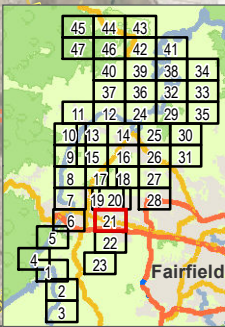
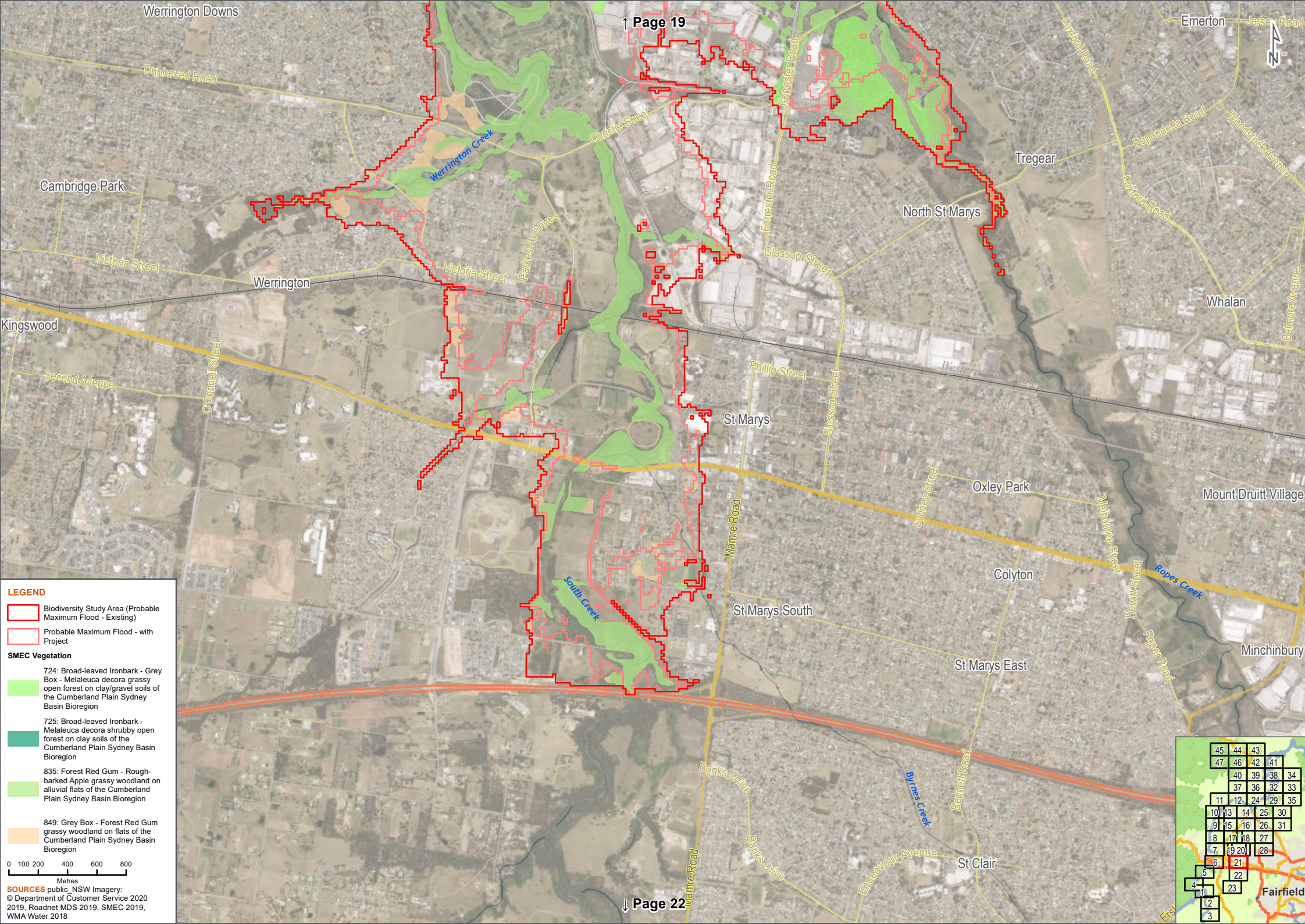
883: Hard-leaved Scribbly Gum - Parramatta Red Gum heathy woodland of the Cumberland Plain Sydney Basin Bioregion

0 100 200 400 600 800  
Metres

**SOURCES** public\_NSW Imagery:  
© Department of Customer Service 2020  
2019, Roadnet MDS 2019, SMEC 2019, WMA Water 2018









St Marys East

Carlisle Avenue

Banks Drive

Banks Drive

Endeavour Avenue

Banks Drive

Bennett Road

Bennett Road

Erskine Park Road

Erskine Park

Mann Road

Blaxland Creek

South Creek

Fairfield

**LEGEND**

Biodiversity Study Area (Probable Maximum Flood - Existing)

Probable Maximum Flood - with Project

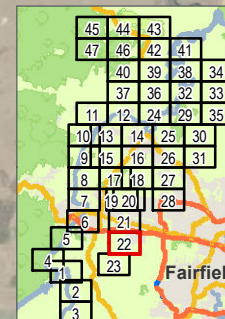
**SMEC Vegetation**

835: Forest Red Gum - Rough-barked Apple grassy woodland on alluvial flats of the Cumberland Plain Sydney Basin Bioregion

849: Grey Box - Forest Red Gum grassy woodland on flats of the Cumberland Plain Sydney Basin Bioregion

0 100 200 400 600 800  
Metres

**SOURCES** public\_NSW Imagery:  
© Department of Customer Service 2020  
2019, Roadnet MDS 2019, SMEC 2019,  
WMA Water 2018







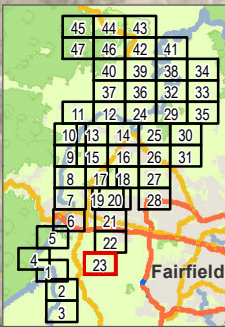
**LEGEND**

Biodiversity Study Area (Probable Maximum Flood - Existing)

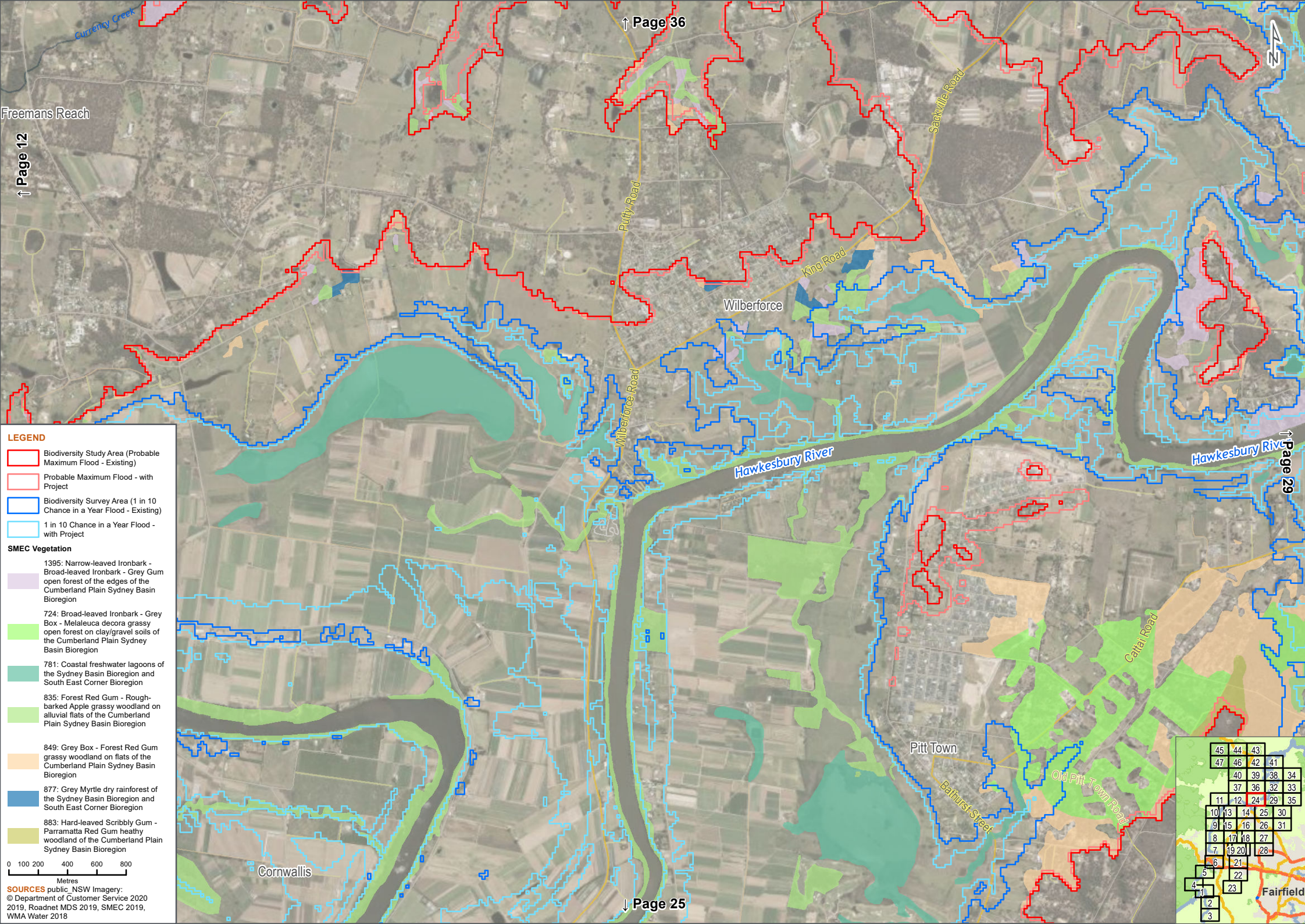
Probable Maximum Flood - with Project

0 100 200 400 600 800  
Metres

**SOURCES** public\_NSW Imagery;  
© Department of Customer Service 2020  
2019, Roadnet MDS 2019, SMEC 2019,  
WMA Water 2018







Freemans Reach

↑ Page 12

↑ Page 36

↓ Page 29

↓ Page 25

**LEGEND**

Biodiversity Study Area (Probable Maximum Flood - Existing)

Probable Maximum Flood - with Project

Biodiversity Survey Area (1 in 10 Chance in a Year Flood - Existing)

1 in 10 Chance in a Year Flood - with Project

**SMEC Vegetation**

1395: Narrow-leaved Ironbark - Broad-leaved Ironbark - Grey Gum open forest of the edges of the Cumberland Plain Sydney Basin Bioregion

724: Broad-leaved Ironbark - Grey Box - Melaleuca decora grassy open forest on clay/gravel soils of the Cumberland Plain Sydney Basin Bioregion

781: Coastal freshwater lagoons of the Sydney Basin Bioregion and South East Corner Bioregion

835: Forest Red Gum - Rough-barked Apple grassy woodland on alluvial flats of the Cumberland Plain Sydney Basin Bioregion

849: Grey Box - Forest Red Gum grassy woodland on flats of the Cumberland Plain Sydney Basin Bioregion

877: Grey Myrtle dry rainforest of the Sydney Basin Bioregion and South East Corner Bioregion

883: Hard-leaved Scribbly Gum - Parramatta Red Gum heathy woodland of the Cumberland Plain Sydney Basin Bioregion

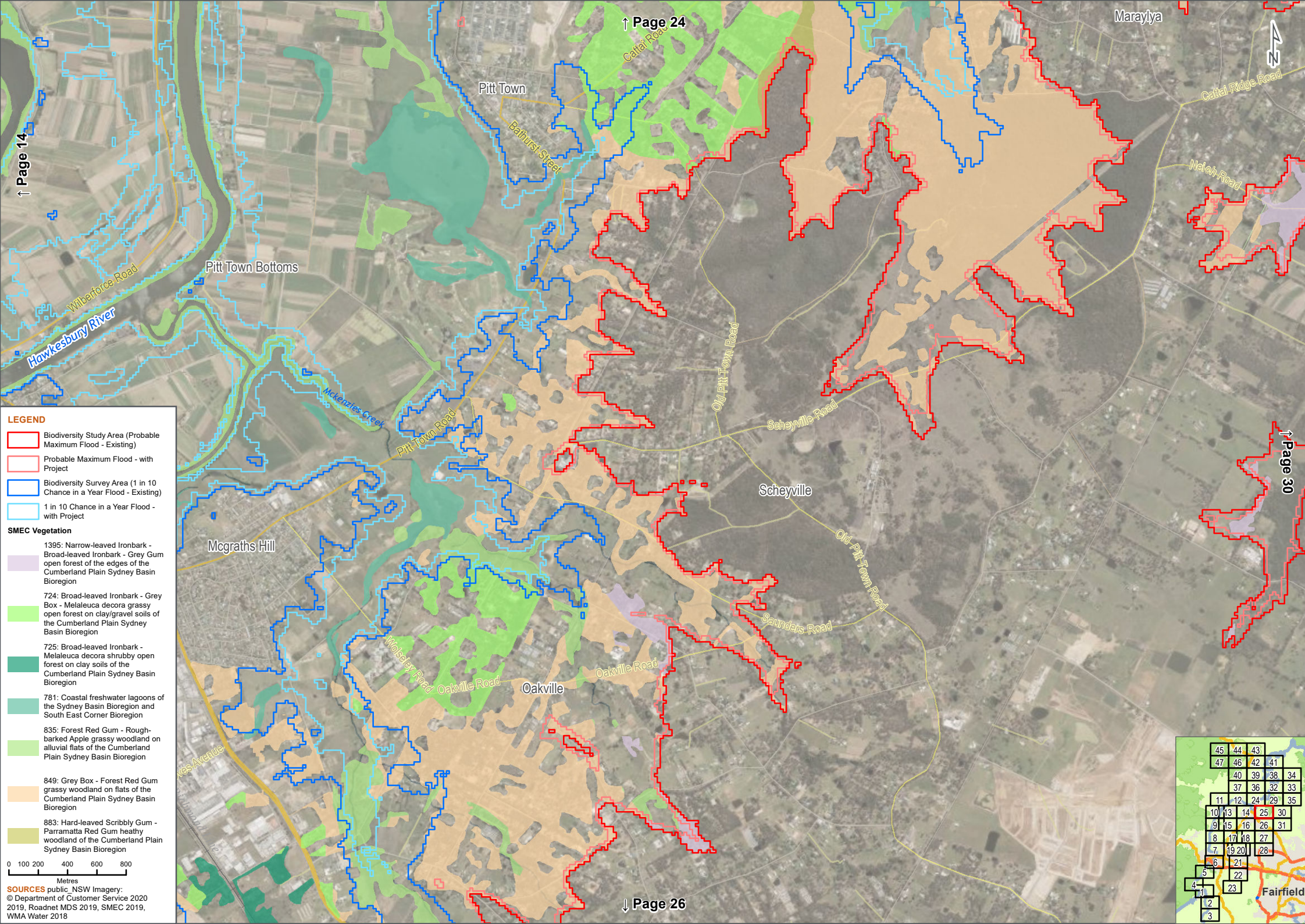
0 100 200 400 600 800  
Metres

**SOURCES** public\_NSW Imagery:  
© Department of Customer Service 2020  
2019, Roadnet MDS 2019, SMEC 2019, WMA Water 2018

45	44	43		
47	46	42	41	
	40	39	38	34
	37	36	32	33
11	12	24	29	35
10	13	14	25	30
9	15	16	26	31
8	17	18	27	
	7	19	20	28
	6	21		
	5	22		
4	1	23		
	2			
	3			

Fairfield





↑ Page 14

↑ Page 24

↑ Page 30

↓ Page 26

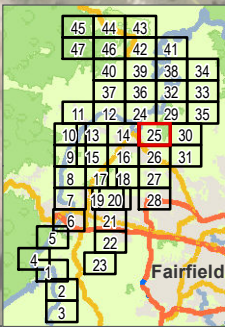
**LEGEND**

- Biodiversity Study Area (Probable Maximum Flood - Existing)
- Probable Maximum Flood - with Project
- Biodiversity Survey Area (1 in 10 Chance in a Year Flood - Existing)
- 1 in 10 Chance in a Year Flood - with Project

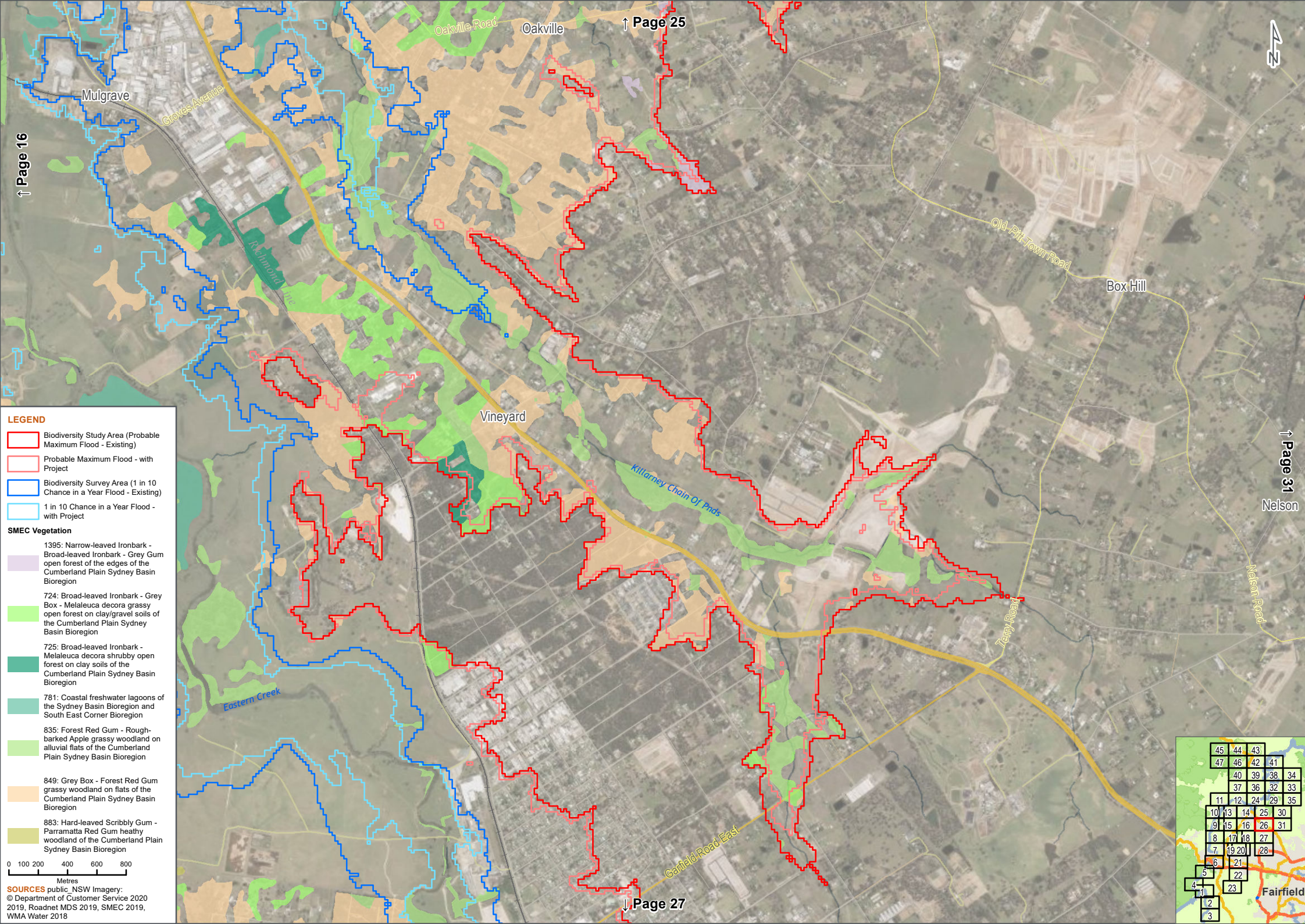
**SMEC Vegetation**

- 1395: Narrow-leaved Ironbark - Broad-leaved Ironbark - Grey Gum open forest of the edges of the Cumberland Plain Sydney Basin Bioregion
- 724: Broad-leaved Ironbark - Grey Box - Melaleuca decora grassy open forest on clay/gravel soils of the Cumberland Plain Sydney Basin Bioregion
- 725: Broad-leaved Ironbark - Melaleuca decora shrubby open forest on clay soils of the Cumberland Plain Sydney Basin Bioregion
- 781: Coastal freshwater lagoons of the Sydney Basin Bioregion and South East Corner Bioregion
- 835: Forest Red Gum - Rough-barked Apple grassy woodland on alluvial flats of the Cumberland Plain Sydney Basin Bioregion
- 849: Grey Box - Forest Red Gum grassy woodland on flats of the Cumberland Plain Sydney Basin Bioregion
- 883: Hard-leaved Scribbly Gum - Parramatta Red Gum healthy woodland of the Cumberland Plain Sydney Basin Bioregion

**SOURCES** public\_NSW Imagery:  
© Department of Customer Service 2020  
2019, Roadnet MDS 2019, SMEC 2019, WMA Water 2018







↑ Page 16

↑ Page 25

↑

↑ Page 31

Nelson

**LEGEND**

- Biodiversity Study Area (Probable Maximum Flood - Existing)
- Probable Maximum Flood - with Project
- Biodiversity Survey Area (1 in 10 Chance in a Year Flood - Existing)
- 1 in 10 Chance in a Year Flood - with Project

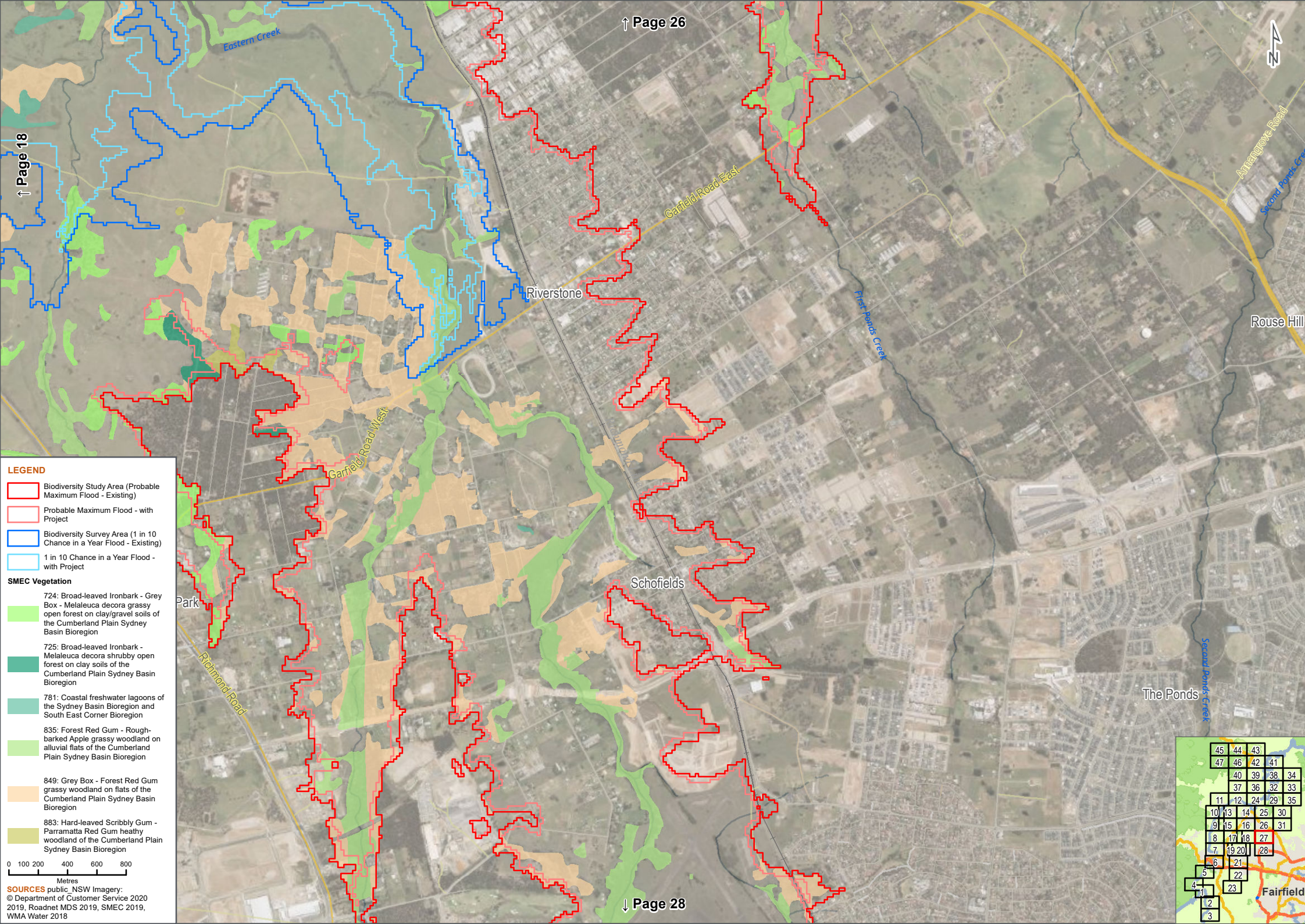
**SMEC Vegetation**

- 1395: Narrow-leaved Ironbark - Broad-leaved Ironbark - Grey Gum open forest of the edges of the Cumberland Plain Sydney Basin Bioregion
- 724: Broad-leaved Ironbark - Grey Box - Melaleuca decora grassy open forest on clay/gravel soils of the Cumberland Plain Sydney Basin Bioregion
- 725: Broad-leaved Ironbark - Melaleuca decora shrubby open forest on clay soils of the Cumberland Plain Sydney Basin Bioregion
- 781: Coastal freshwater lagoons of the Sydney Basin Bioregion and South East Corner Bioregion
- 835: Forest Red Gum - Rough-barked Apple grassy woodland on alluvial flats of the Cumberland Plain Sydney Basin Bioregion
- 849: Grey Box - Forest Red Gum grassy woodland on flats of the Cumberland Plain Sydney Basin Bioregion
- 883: Hard-leaved Scribbly Gum - Parramatta Red Gum healthy woodland of the Cumberland Plain Sydney Basin Bioregion

**SOURCES** public\_NSW Imagery:  
© Department of Customer Service 2020  
2019, Roadnet MDS 2019, SMEC 2019, WMA Water 2018

45	44	43		
47	46	42	41	
	37	36	32	33
11	12	24	29	35
10	13	14	25	30
19	15	16	26	31
8	17	18	27	
7	19	20	28	
6	21			
5	22			
4	23			
2				
3				





**LEGEND**

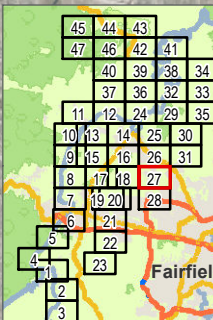
- Biodiversity Study Area (Probable Maximum Flood - Existing)
- Probable Maximum Flood - with Project
- Biodiversity Survey Area (1 in 10 Chance in a Year Flood - Existing)
- 1 in 10 Chance in a Year Flood - with Project

**SMEC Vegetation**

- 724: Broad-leaved Ironbark - Grey Box - Melaleuca decora grassy open forest on clay/gravel soils of the Cumberland Plain Sydney Basin Bioregion
- 725: Broad-leaved Ironbark - Melaleuca decora shrubby open forest on clay soils of the Cumberland Plain Sydney Basin Bioregion
- 781: Coastal freshwater lagoons of the Sydney Basin Bioregion and South East Corner Bioregion
- 835: Forest Red Gum - Rough-barked Apple grassy woodland on alluvial flats of the Cumberland Plain Sydney Basin Bioregion
- 849: Grey Box - Forest Red Gum grassy woodland on flats of the Cumberland Plain Sydney Basin Bioregion
- 883: Hard-leaved Scribbly Gum - Parramatta Red Gum healthy woodland of the Cumberland Plain Sydney Basin Bioregion

0 100 200 400 600 800  
Metres

**SOURCES** public\_NSW Imagery:  
© Department of Customer Service 2020  
2019, Roadnet MDS 2019, SMEC 2019,  
WMA Water 2018





The Ponds



**LEGEND**

Biodiversity Study Area (Probable Maximum Flood - Existing)

Probable Maximum Flood - with Project

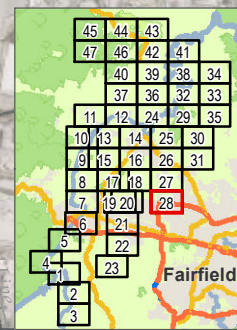
**SMEC Vegetation**

835: Forest Red Gum - Rough-barked Apple grassy woodland on alluvial flats of the Cumberland Plain Sydney Basin Bioregion

849: Grey Box - Forest Red Gum grassy woodland on flats of the Cumberland Plain Sydney Basin Bioregion

0 100 200 400 600 800  
Metres





**SOURCES** public\_NSW Imagery:  
© Department of Customer Service 2020  
2019, Roadnet MDS 2019, SMEC 2019, WMA Water 2018



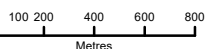


## LEGEND

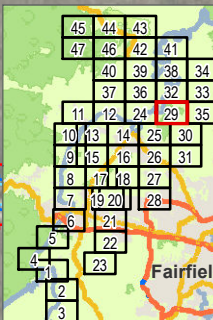
## MEC Vegetation

- |   |  |
|---|--|
|  | Biodiversity Study Area (Probable Maximum Flood - Existing)          |
|  | Probable Maximum Flood - with Project                                |
|  | Biodiversity Survey Area (1 in 10 Chance in a Year Flood - Existing) |
|  | 1 in 10 Chance in a Year Flood - with Project                        |

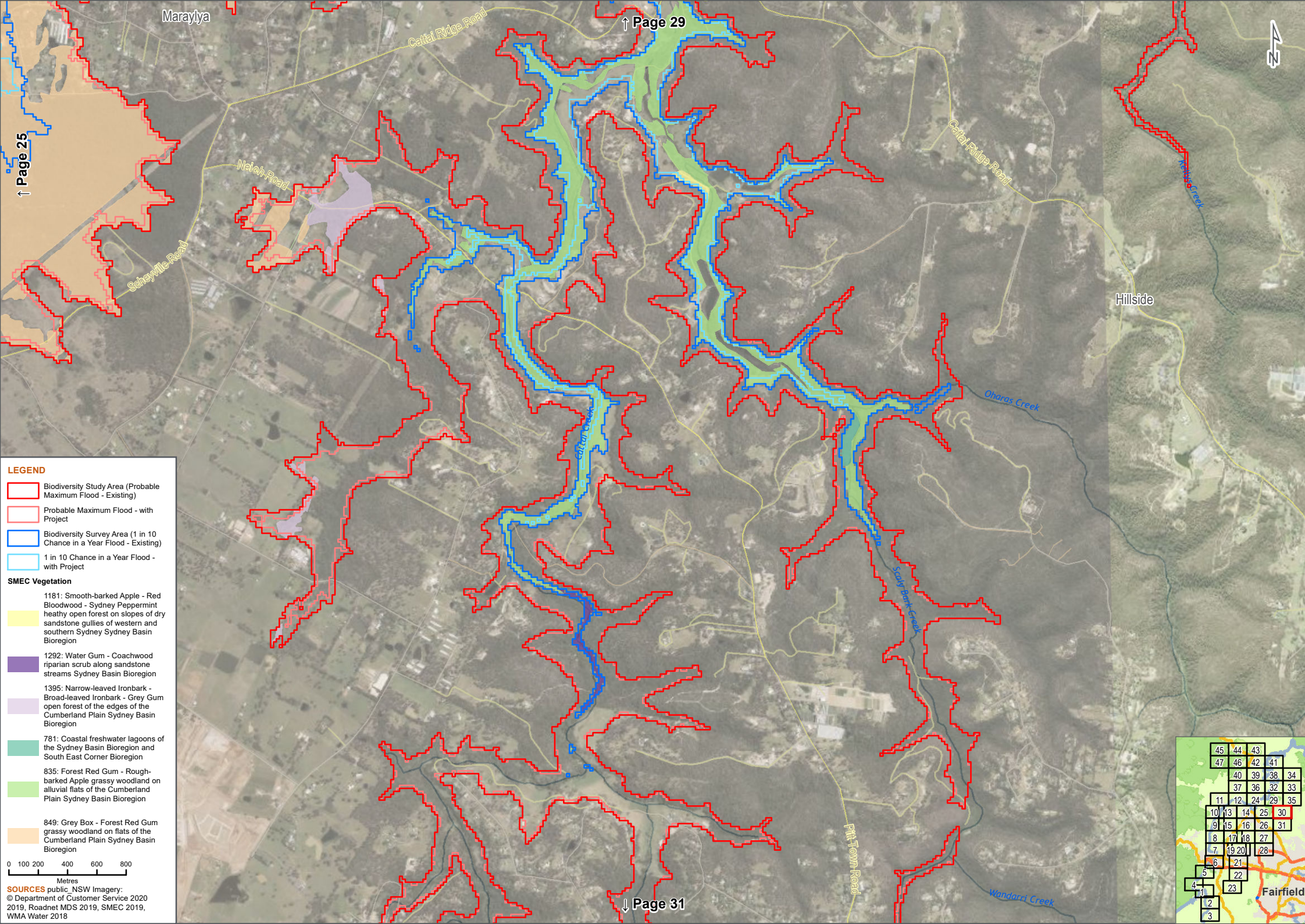
- 1106: River Oak riparian woodland of the NSW North Coast Bioregion and northern Sydney Basin Bioregion
- 1181: Smooth-barked Apple - Red Bloodwood - Sydney Peppermint heathy open forest on slopes of dry sandstone gullies of western and southern Sydney Sydney Basin Bioregion
- 1395: Narrow-leaved Ironbark - Broad-leaved Ironbark - Grey Gum open forest of the edges of the Cumberland Plain Sydney Basin Bioregion
- 1557: Rough-barked Apple - Forest Oak - Grey Gum grassy woodland on sandstone ranges of the Sydney Basin
- 724: Broad-leaved Ironbark - Grey Box - Melaleuca decora grassy open forest on clay/gravel soils of the Cumberland Plain Sydney Basin Bioregion
- 781: Coastal freshwater lagoons of the Sydney Basin Bioregion and South East Corner Bioregion
- 835: Forest Red Gum - Rough-barked Apple grassy woodland on alluvial flats of the Cumberland Plain Sydney Basin Bioregion
- 849: Grey Box - Forest Red Gum grassy woodland on flats of the Cumberland Plain Sydney Basin Bioregion
- 877: Grey Myrtle dry rainforest of the Sydney Basin Bioregion and South East Corner Bioregion
- 883: Hard-leaved Scribbly Gum - Parramatta Red Gum heathy woodland of the Cumberland Plain Sydney Basin Bioregion



**SOURCES** public\_NSW Imagery:  
Department of Customer Service 2020  
2019, Roadnet MDS 2019, SMEC 2019,  
WMA Water 2018







Maraylya

↑ Page 29



↑ Page 25

Hillside

**LEGEND**

Biodiversity Study Area (Probable Maximum Flood - Existing)

Probable Maximum Flood - with Project

Biodiversity Survey Area (1 in 10 Chance in a Year Flood - Existing)

1 in 10 Chance in a Year Flood - with Project

**SMEC Vegetation**

1181: Smooth-barked Apple - Red Bloodwood - Sydney Peppermint heathy open forest on slopes of dry sandstone gullies of western and southern Sydney Sydney Basin Bioregion

1292: Water Gum - Coachwood riparian scrub along sandstone streams Sydney Basin Bioregion

1395: Narrow-leaved Ironbark - Broad-leaved Ironbark - Grey Gum open forest of the edges of the Cumberland Plain Sydney Basin Bioregion

781: Coastal freshwater lagoons of the Sydney Basin Bioregion and South East Corner Bioregion

835: Forest Red Gum - Rough-barked Apple grassy woodland on alluvial flats of the Cumberland Plain Sydney Basin Bioregion

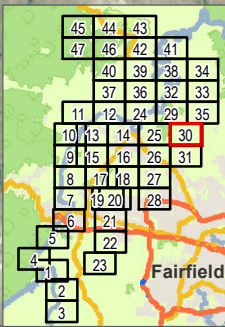
849: Grey Box - Forest Red Gum grassy woodland on flats of the Cumberland Plain Sydney Basin Bioregion

0 100 200 400 600 800

Metres

**SOURCES** public\_NSW Imagery:  
© Department of Customer Service 2020  
2019, Roadnet MDS 2019, SMEC 2019, WMA Water 2018

↓ Page 31







**LEGEND**

Biodiversity Study Area (Probable Maximum Flood - Existing)

Probable Maximum Flood - with Project

Biodiversity Survey Area (1 in 10 Chance in a Year Flood - Existing)

**SMEC Vegetation**

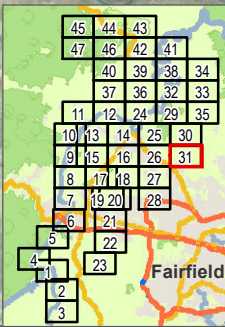
1292: Water Gum - Coachwood riparian scrub along sandstone streams Sydney Basin Bioregion

1395: Narrow-leaved Ironbark - Broad-leaved Ironbark - Grey Gum open forest of the edges of the Cumberland Plain Sydney Basin Bioregion

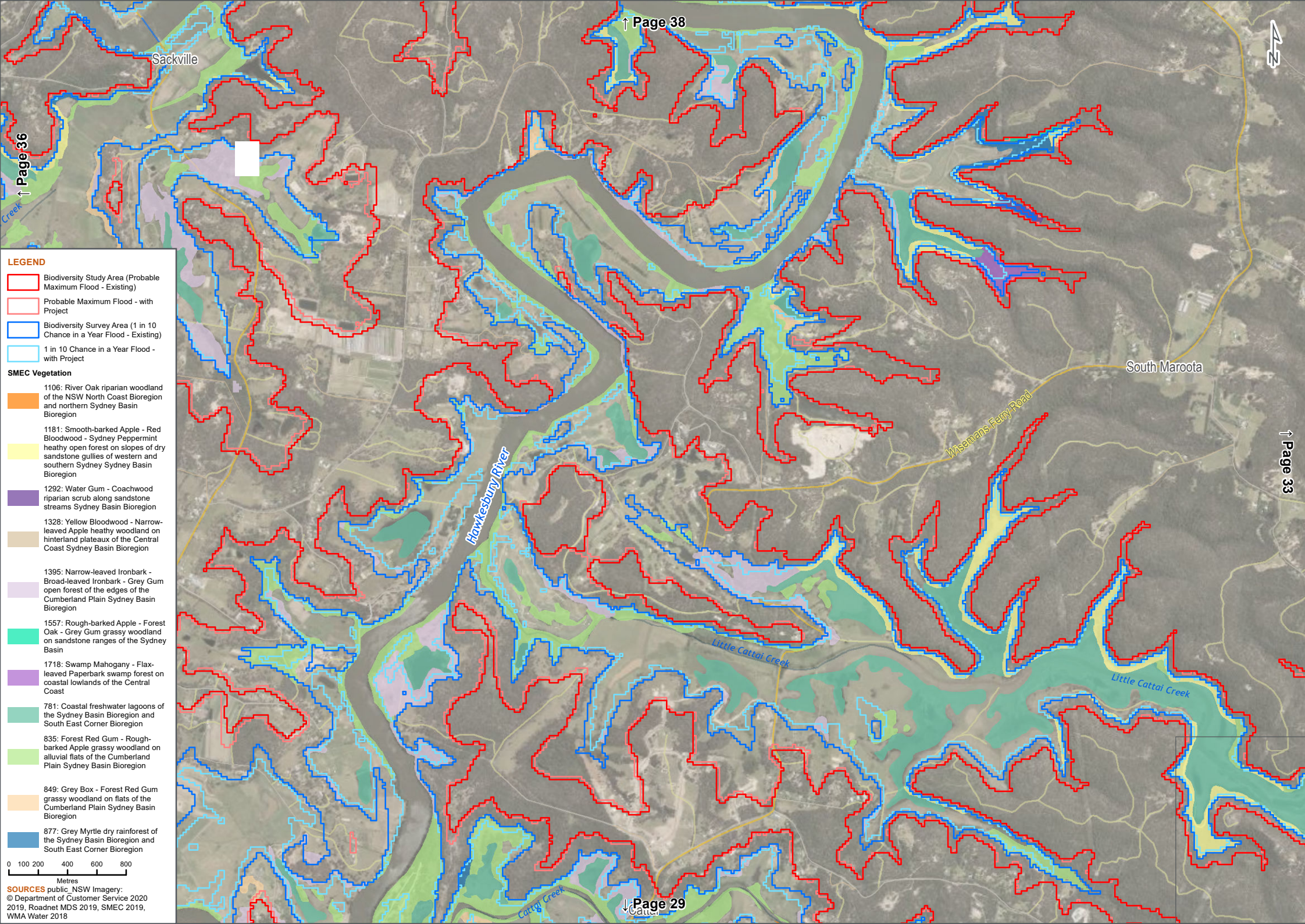
835: Forest Red Gum - Rough-barked Apple grassy woodland on alluvial flats of the Cumberland Plain Sydney Basin Bioregion

0 100 200 400 600 800  
Metres

**SOURCES** public\_NSW Imagery:  
© Department of Customer Service 2020  
2019, Roadnet MDS 2019, SMEC 2019,  
WMA Water 2018







Sackville

South Maroota

Wisemans Ferry Road

Hawkesbury River

Little Cattai Creek

Little Cattai Creek

Cattai Creek

↑ Page 38

↑ Page 33

↓ Page 29

#### LEGEND

- Biodiversity Study Area (Probable Maximum Flood - Existing)
- Probable Maximum Flood - with Project
- Biodiversity Survey Area (1 in 10 Chance in a Year Flood - Existing)
- 1 in 10 Chance in a Year Flood - with Project

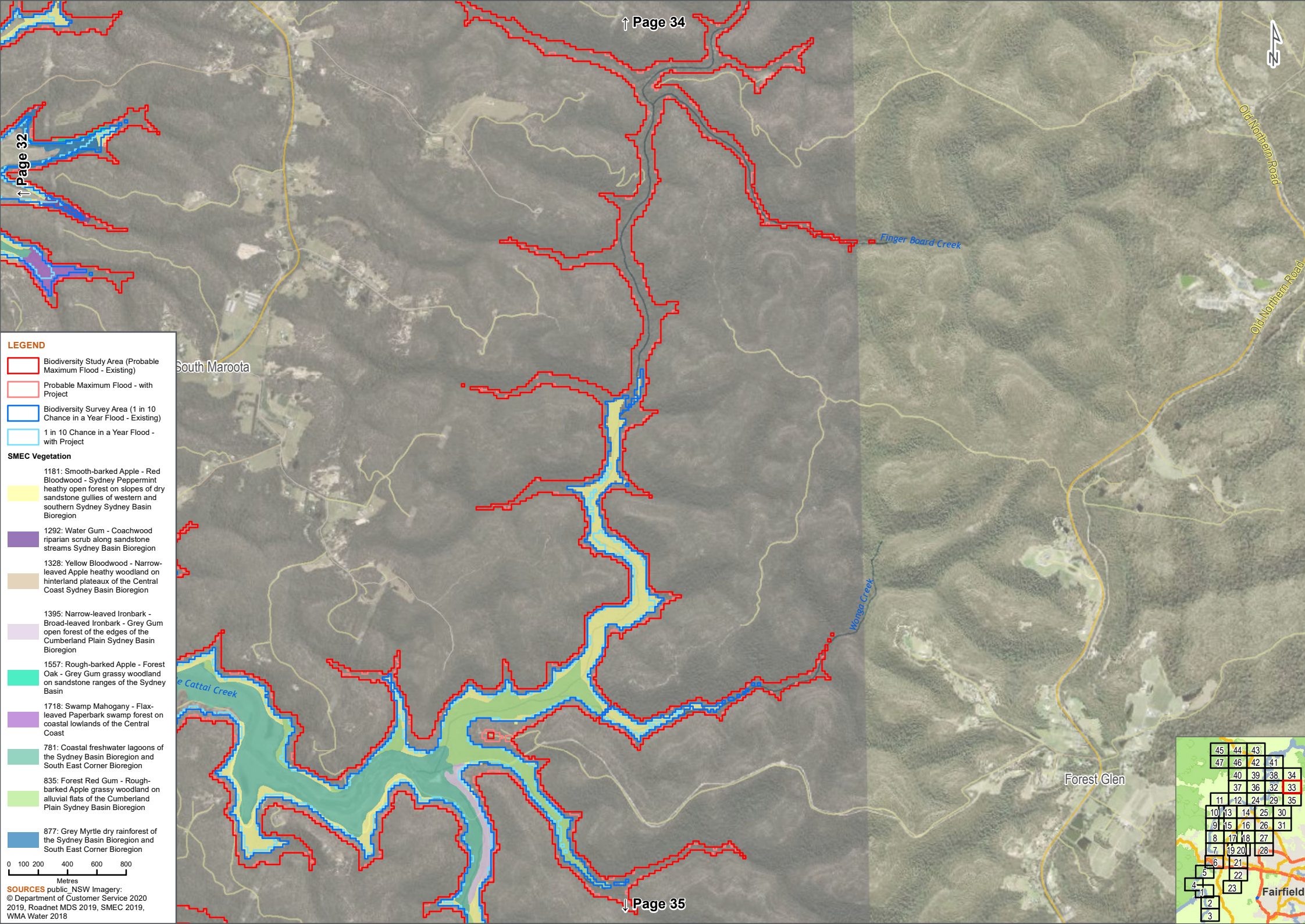
#### SMEC Vegetation

- 1106: River Oak riparian woodland of the NSW North Coast Bioregion and northern Sydney Basin Bioregion
- 1181: Smooth-barked Apple - Red Bloodwood - Sydney Peppermint heathy open forest on slopes of dry sandstone gullies of western and southern Sydney Sydney Basin Bioregion
- 1292: Water Gum - Coachwood riparian scrub along sandstone streams Sydney Basin Bioregion
- 1328: Yellow Bloodwood - Narrow-leaved Apple heathy woodland on hinterland plateaux of the Central Coast Sydney Basin Bioregion
- 1395: Narrow-leaved Ironbark - Broad-leaved Ironbark - Grey Gum open forest of the edges of the Cumberland Plain Sydney Basin Bioregion
- 1557: Rough-barked Apple - Forest Oak - Grey Gum grassy woodland on sandstone ranges of the Sydney Basin
- 1718: Swamp Mahogany - Flax-leaved Paperbark swamp forest on coastal lowlands of the Central Coast
- 781: Coastal freshwater lagoons of the Sydney Basin Bioregion and South East Corner Bioregion
- 835: Forest Red Gum - Rough-barked Apple grassy woodland on alluvial flats of the Cumberland Plain Sydney Basin Bioregion
- 849: Grey Box - Forest Red Gum grassy woodland on flats of the Cumberland Plain Sydney Basin Bioregion
- 877: Grey Myrtle dry rainforest of the Sydney Basin Bioregion and South East Corner Bioregion

0 100 200 400 600 800  
Metres

SOURCES public\_NSW Imagery:  
© Department of Customer Service 2020  
2019, Roadnet MDS 2019, SMEC 2019,  
WMA Water 2018





South Maroota

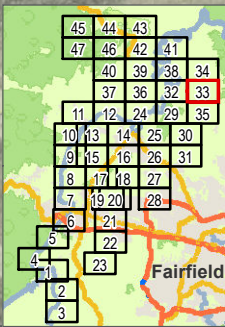
Finger Board Creek

Wonga Creek

Cattai Creek

Forest Glen

Fairfield



**LEGEND**

- Biodiversity Study Area (Probable Maximum Flood - Existing)
- Probable Maximum Flood - with Project
- Biodiversity Survey Area (1 in 10 Chance in a Year Flood - Existing)
- 1 in 10 Chance in a Year Flood - with Project

**SMEC Vegetation**

- 1181: Smooth-barked Apple - Red Bloodwood - Sydney Peppermint heathy open forest on slopes of dry sandstone gullies of western and southern Sydney Sydney Basin Bioregion
- 1292: Water Gum - Coachwood riparian scrub along sandstone streams Sydney Basin Bioregion
- 1328: Yellow Bloodwood - Narrow-leaved Apple heathy woodland on hinterland plateaux of the Central Coast Sydney Basin Bioregion
- 1395: Narrow-leaved Ironbark - Broad-leaved Ironbark - Grey Gum open forest of the edges of the Cumberland Plain Sydney Basin Bioregion
- 1557: Rough-barked Apple - Forest Oak - Grey Gum grassy woodland on sandstone ranges of the Sydney Basin
- 1718: Swamp Mahogany - Flax-leaved Paperbark swamp forest on coastal lowlands of the Central Coast
- 781: Coastal freshwater lagoons of the Sydney Basin Bioregion and South East Corner Bioregion
- 835: Forest Red Gum - Rough-barked Apple grassy woodland on alluvial flats of the Cumberland Plain Sydney Basin Bioregion
- 877: Grey Myrtle dry rainforest of the Sydney Basin Bioregion and South East Corner Bioregion

0 100 200 400 600 800  
Metres

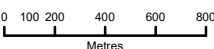
**SOURCES** public\_NSW Imagery:  
© Department of Customer Service 2020  
2019, Roadnet MDS 2019, SMEC 2019,  
WMA Water 2018



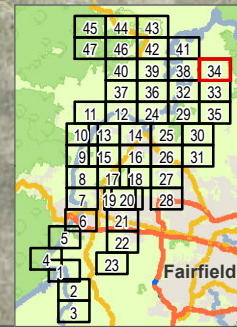


- LEGEND**
- Biodiversity Study Area (Probable Maximum Flood - Existing)
  - Probable Maximum Flood - with Project
  - Biodiversity Survey Area (1 in 10 Chance in a Year Flood - Existing)
  - 1 in 10 Chance in a Year Flood - with Project

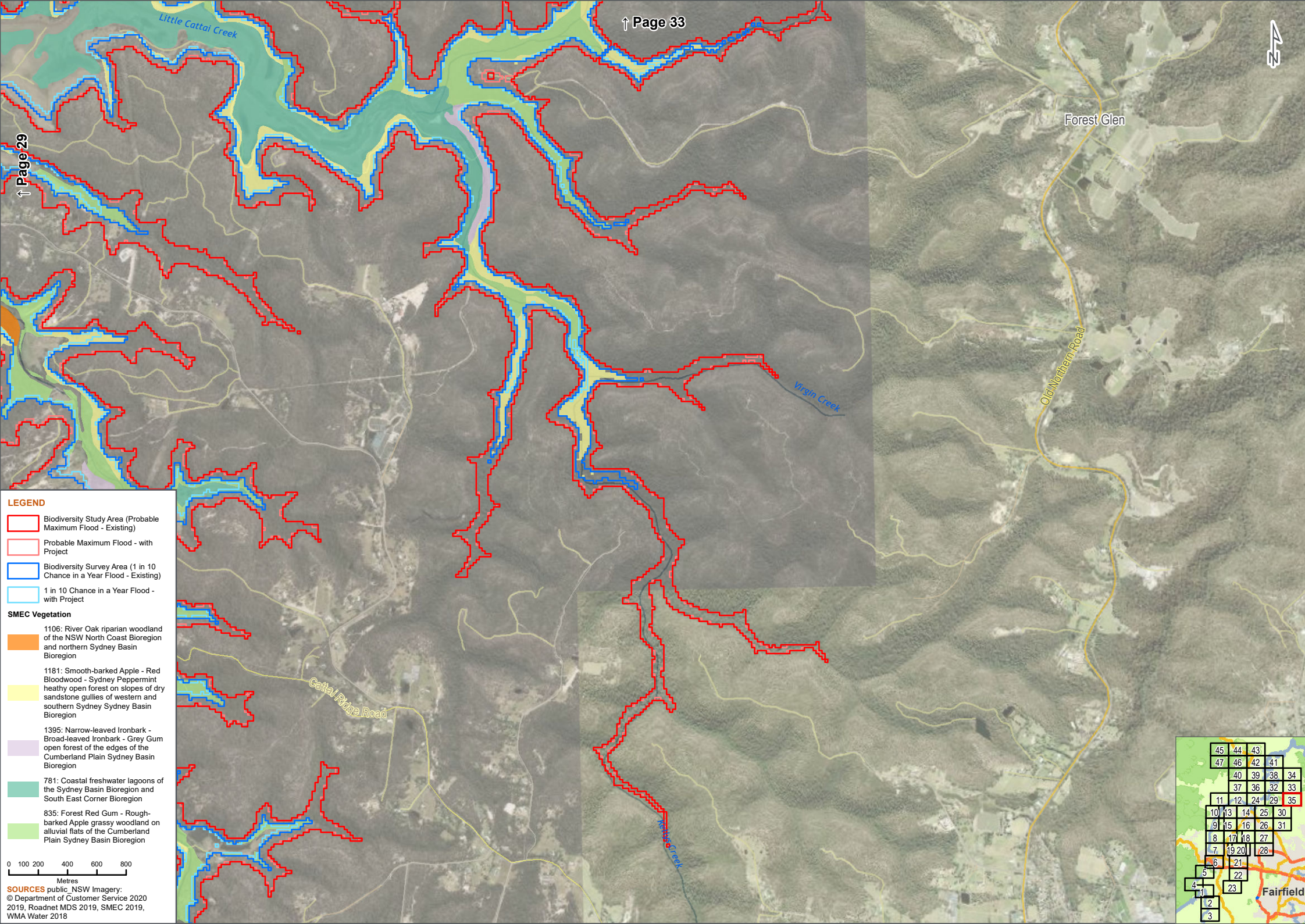
- SMEC Vegetation**
- 1181: Smooth-barked Apple - Red Bloodwood - Sydney Peppermint heathy open forest on slopes of dry sandstone gullies of western and southern Sydney Sydney Basin Bioregion
  - 1292: Water Gum - Coachwood riparian scrub along sandstone streams Sydney Basin Bioregion
  - 1328: Yellow Bloodwood - Narrow-leaved Apple heathy woodland on hinterland plateaux of the Central Coast Sydney Basin Bioregion
  - 1557: Rough-barked Apple - Forest Oak - Grey Gum grassy woodland on sandstone ranges of the Sydney Basin
  - 1718: Swamp Mahogany - Flax-leaved Paperbark swamp forest on coastal lowlands of the Central Coast
  - 781: Coastal freshwater lagoons of the Sydney Basin Bioregion and South East Corner Bioregion
  - 877: Grey Myrtle dry rainforest of the Sydney Basin Bioregion and South East Corner Bioregion



**SOURCES** public\_NSW Imagery:  
 © Department of Customer Service 2020  
 2019, Roadnet MDS 2019, SMEC 2019,  
 WMA Water 2018







**LEGEND**

Biodiversity Study Area (Probable Maximum Flood - Existing)

Probable Maximum Flood - with Project

Biodiversity Survey Area (1 in 10 Chance in a Year Flood - Existing)

1 in 10 Chance in a Year Flood - with Project

**SMEC Vegetation**

1106: River Oak riparian woodland of the NSW North Coast Bioregion and northern Sydney Basin Bioregion

1181: Smooth-barked Apple - Red Bloodwood - Sydney Peppermint heathy open forest on slopes of dry sandstone gullies of western and southern Sydney Sydney Basin Bioregion

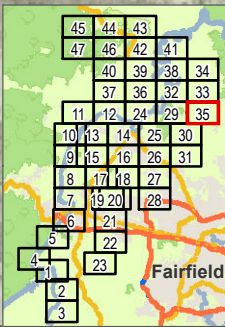
1395: Narrow-leaved Ironbark - Broad-leaved Ironbark - Grey Gum open forest of the edges of the Cumberland Plain Sydney Basin Bioregion

781: Coastal freshwater lagoons of the Sydney Basin Bioregion and South East Corner Bioregion

835: Forest Red Gum - Rough-barked Apple grassy woodland on alluvial flats of the Cumberland Plain Sydney Basin Bioregion

0 100 200 400 600 800  
Metres

**SOURCES** public\_NSW Imagery;  
© Department of Customer Service 2020  
2019, Roadnet MDS 2019, SMEC 2019,  
WMA Water 2018





Sackville

Howes Creek

Puffy Road

Sackville Road

Fairfield

**LEGEND**

Biodiversity Study Area (Probable Maximum Flood - Existing)

Probable Maximum Flood - with Project

Biodiversity Survey Area (1 in 10 Chance in a Year Flood - Existing)

1 in 10 Chance in a Year Flood - with Project

**SMEC Vegetation**

1181: Smooth-barked Apple - Red Bloodwood - Sydney Peppermint heathy open forest on slopes of dry sandstone gullies of western and southern Sydney Sydney Basin Bioregion

1395: Narrow-leaved Ironbark - Broad-leaved Ironbark - Grey Gum open forest of the edges of the Cumberland Plain Sydney Basin Bioregion

781: Coastal freshwater lagoons of the Sydney Basin Bioregion and South East Corner Bioregion

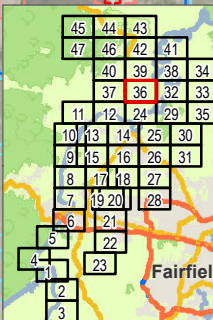
835: Forest Red Gum - Rough-barked Apple grassy woodland on alluvial flats of the Cumberland Plain Sydney Basin Bioregion

849: Grey Box - Forest Red Gum grassy woodland on flats of the Cumberland Plain Sydney Basin Bioregion

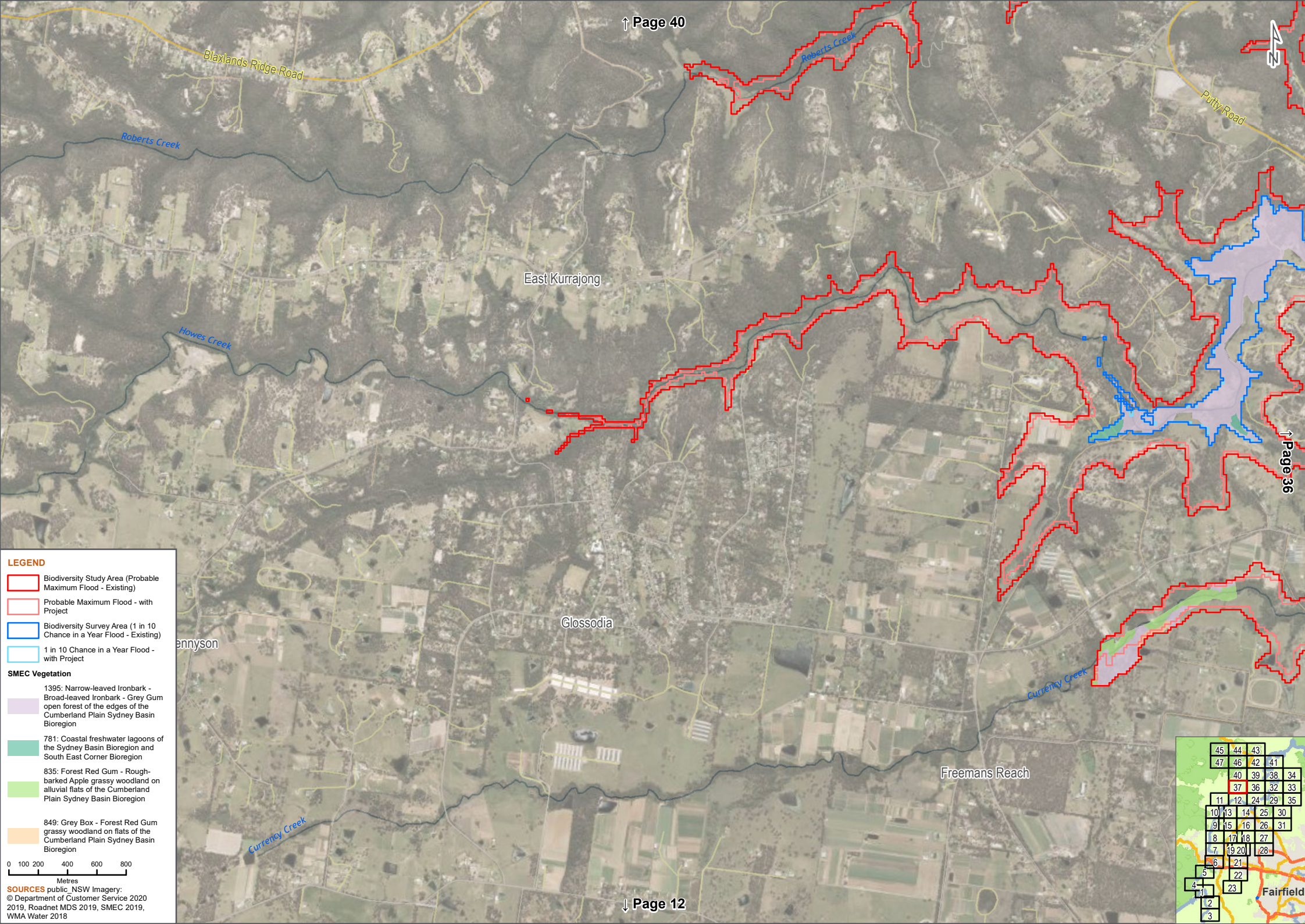
877: Grey Myrtle dry rainforest of the Sydney Basin Bioregion and South East Corner Bioregion

0 100 200 400 600 800  
Metres

**SOURCES** public\_NSW Imagery;  
© Department of Customer Service 2020  
2019, Roadnet MDS 2019, SMEC 2019,  
WMA Water 2018







**LEGEND**

Biodiversity Study Area (Probable Maximum Flood - Existing)

Probable Maximum Flood - with Project

Biodiversity Survey Area (1 in 10 Chance in a Year Flood - Existing)

1 in 10 Chance in a Year Flood - with Project

**SMEC Vegetation**

1395: Narrow-leaved Ironbark - Broad-leaved Ironbark - Grey Gum open forest of the edges of the Cumberland Plain Sydney Basin Bioregion

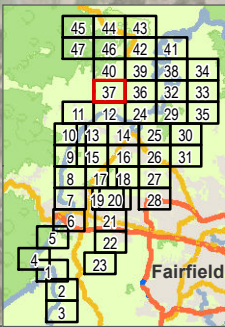
781: Coastal freshwater lagoons of the Sydney Basin Bioregion and South East Corner Bioregion

835: Forest Red Gum - Rough-barked Apple grassy woodland on alluvial flats of the Cumberland Plain Sydney Basin Bioregion

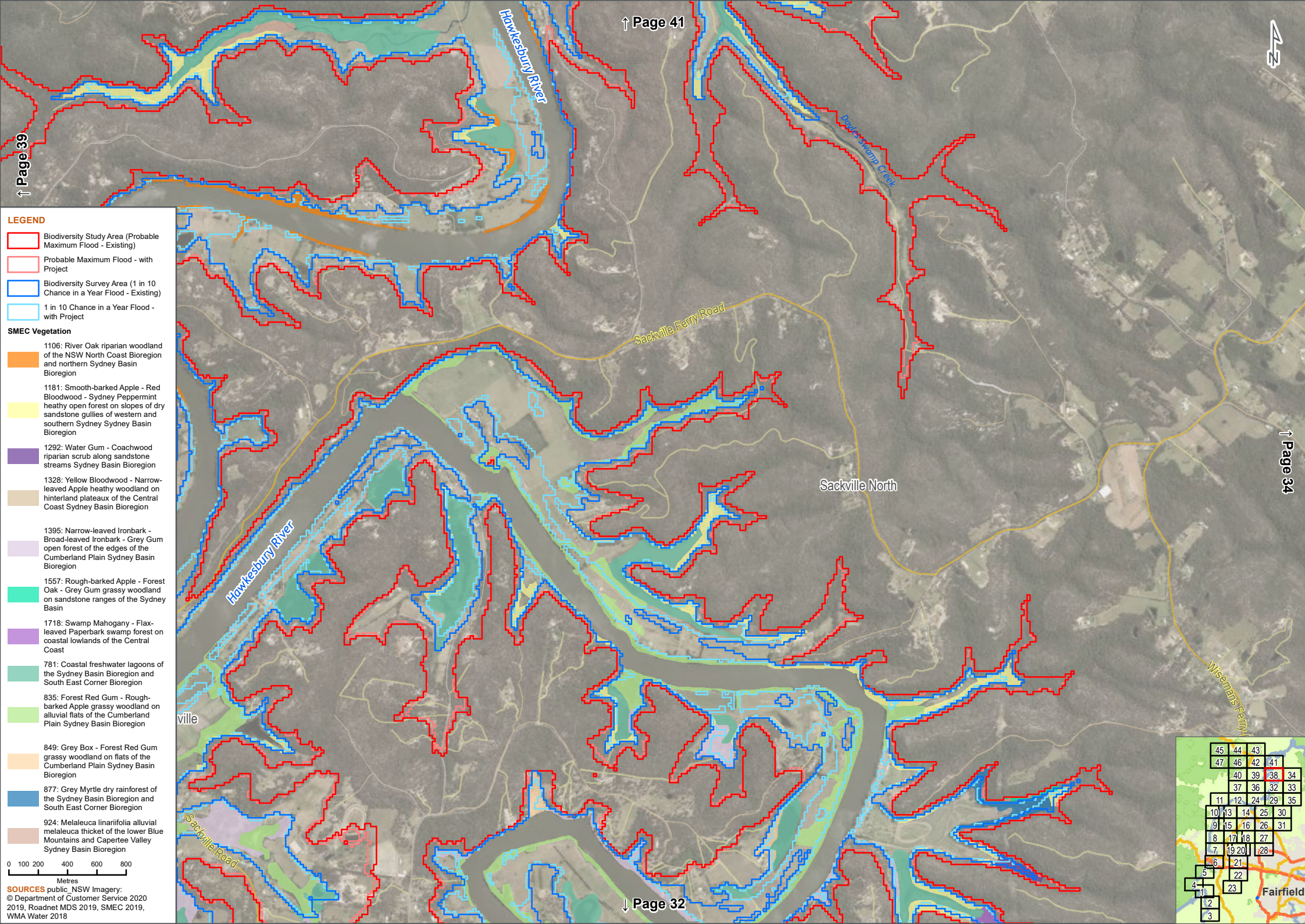
849: Grey Box - Forest Red Gum grassy woodland on flats of the Cumberland Plain Sydney Basin Bioregion

0 100 200 400 600 800  
Metres

**SOURCES** public\_NSW Imagery;  
© Department of Customer Service 2020  
2019, Roadnet MDS 2019, SMEC 2019, WMA Water 2018







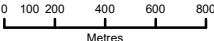
↑ Page 39

↑ Page 41

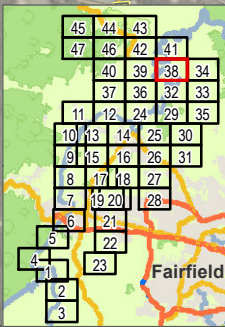
42

↓ Page 34

- LEGEND**
- Biodiversity Study Area (Probable Maximum Flood - Existing)
  - Probable Maximum Flood - with Project
  - Biodiversity Survey Area (1 in 10 Chance in a Year Flood - Existing)
  - 1 in 10 Chance in a Year Flood - with Project
- SMEC Vegetation**
- 1106: River Oak riparian woodland of the NSW North Coast Bioregion and northern Sydney Basin Bioregion
  - 1181: Smooth-barked Apple - Red Bloodwood - Sydney Peppermint heathy open forest on slopes of dry sandstone gullies of western and southern Sydney Basin Bioregion
  - 1292: Water Gum - Coachwood riparian scrub along sandstone streams Sydney Basin Bioregion
  - 1328: Yellow Bloodwood - Narrow-leaved Apple heathy woodland on hinterland plateaux of the Central Coast Sydney Basin Bioregion
  - 1395: Narrow-leaved Ironbark - Broad-leaved Ironbark - Grey Gum open forest of the edges of the Cumberland Plain Sydney Basin Bioregion
  - 1557: Rough-barked Apple - Forest Oak - Grey Gum grassy woodland on sandstone ranges of the Sydney Basin
  - 1718: Swamp Mahogany - Flax-leaved Paperbark swamp forest on coastal lowlands of the Central Coast
  - 781: Coastal freshwater lagoons of the Sydney Basin Bioregion and South East Corner Bioregion
  - 835: Forest Red Gum - Rough-barked Apple grassy woodland on alluvial flats of the Cumberland Plain Sydney Basin Bioregion
  - 849: Grey Box - Forest Red Gum grassy woodland on flats of the Cumberland Plain Sydney Basin Bioregion
  - 877: Grey Myrtle dry rainforest of the Sydney Basin Bioregion and South East Corner Bioregion
  - 924: Melaleuca linariifolia alluvial melaleuca thicket of the lower Blue Mountains and Capertee Valley Sydney Basin Bioregion



**SOURCES** public\_NSW Imagery;  
© Department of Customer Service 2020  
2019, Roadnet MDS 2019, SMCE 2019,  
WMA Water 2018





**LEGEND**

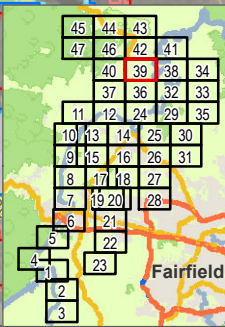
- Biodiversity Study Area (Probable Maximum Flood - Existing)
- Probable Maximum Flood - with Project
- Biodiversity Survey Area (1 in 10 Chance in a Year Flood - Existing)
- 1 in 10 Chance in a Year Flood - with Project

**SMEC Vegetation**

- 1106: River Oak riparian woodland of the NSW North Coast Bioregion and northern Sydney Basin Bioregion
- 1181: Smooth-barked Apple - Red Bloodwood - Sydney Peppermint heathy open forest on slopes of dry sandstone gullies of western and southern Sydney Sydney Basin Bioregion
- 1284: Turpentine - Smooth-barked Apple moist shrubby forest of the lower Blue Mountains Sydney Basin Bioregion
- 1395: Narrow-leaved Ironbark - Broad-leaved Ironbark - Grey Gum open forest of the edges of the Cumberland Plain Sydney Basin Bioregion
- 781: Coastal freshwater lagoons of the Sydney Basin Bioregion and South East Corner Bioregion
- 835: Forest Red Gum - Rough-barked Apple grassy woodland on alluvial flats of the Cumberland Plain Sydney Basin Bioregion
- 849: Grey Box - Forest Red Gum grassy woodland on flats of the Cumberland Plain Sydney Basin Bioregion
- 877: Grey Myrtle dry rainforest of the Sydney Basin Bioregion and South East Corner Bioregion
- 924: Melaleuca linariifolia alluvial melaleuca thicket of the lower Blue Mountains and Capetee Valley Sydney Basin Bioregion

0 100 200 400 600 800  
Metres

**SOURCES** public\_NSW Imagery:  
© Department of Customer Service 2020  
2019, Roadnet MDS 2019, SMEC 2019, WMA Water 2018





**LEGEND**

- Biodiversity Study Area (Probable Maximum Flood - Existing)
- Probable Maximum Flood - with Project
- Biodiversity Survey Area (1 in 10 Chance in a Year Flood - Existing)
- 1 in 10 Chance in a Year Flood - with Project

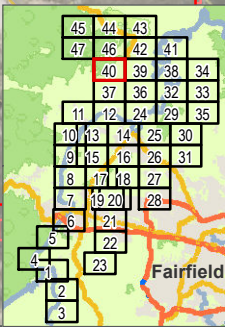
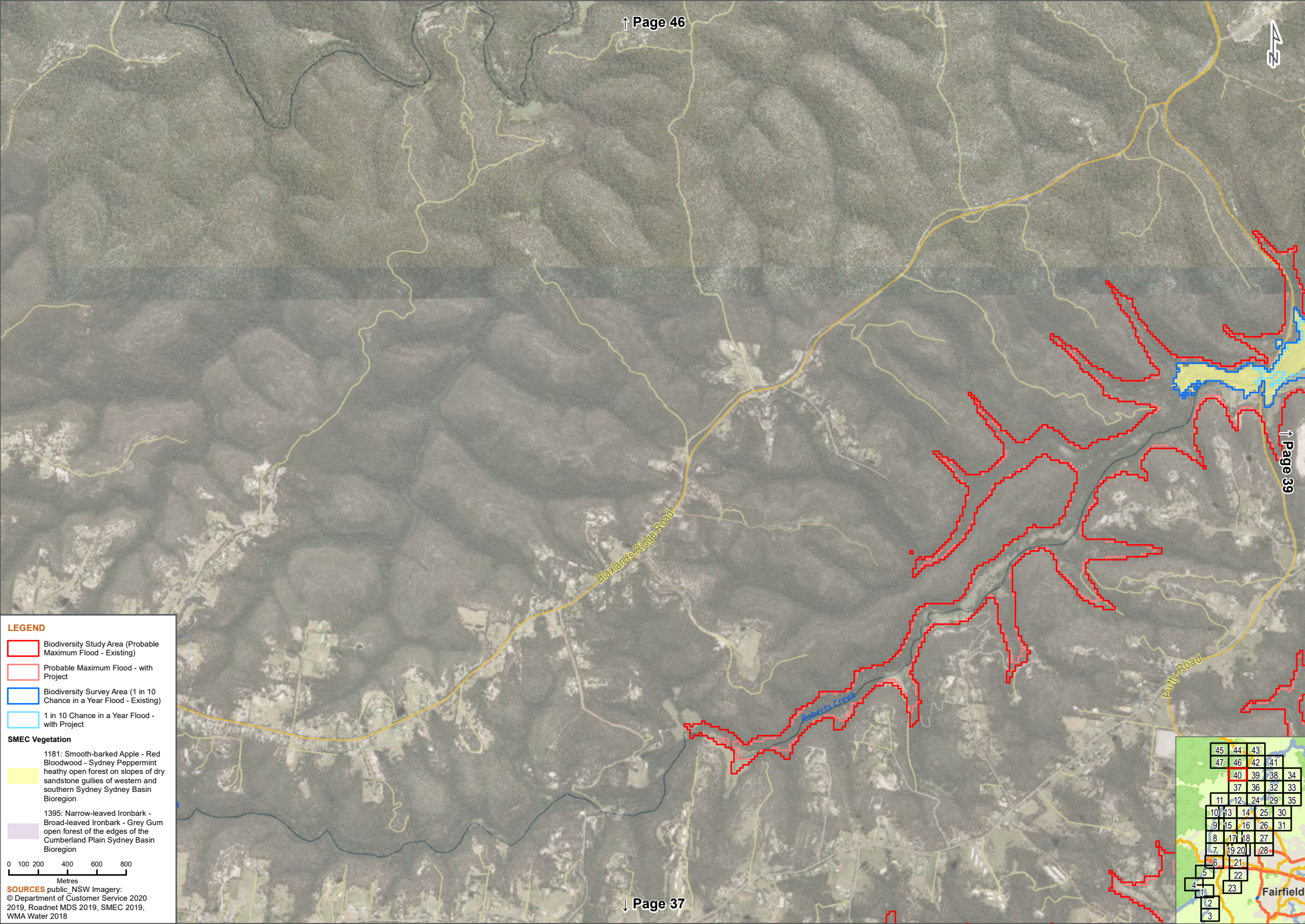
**SMEC Vegetation**

1181: Smooth-barked Apple - Red Bloodwood - Sydney Peppermint heathy open forest on slopes of dry sandstone gullies of western and southern Sydney Sydney Basin Bioregion

1395: Narrow-leaved Ironbark - Broad-leaved Ironbark - Grey Gum open forest of the edges of the Cumberland Plain Sydney Basin Bioregion

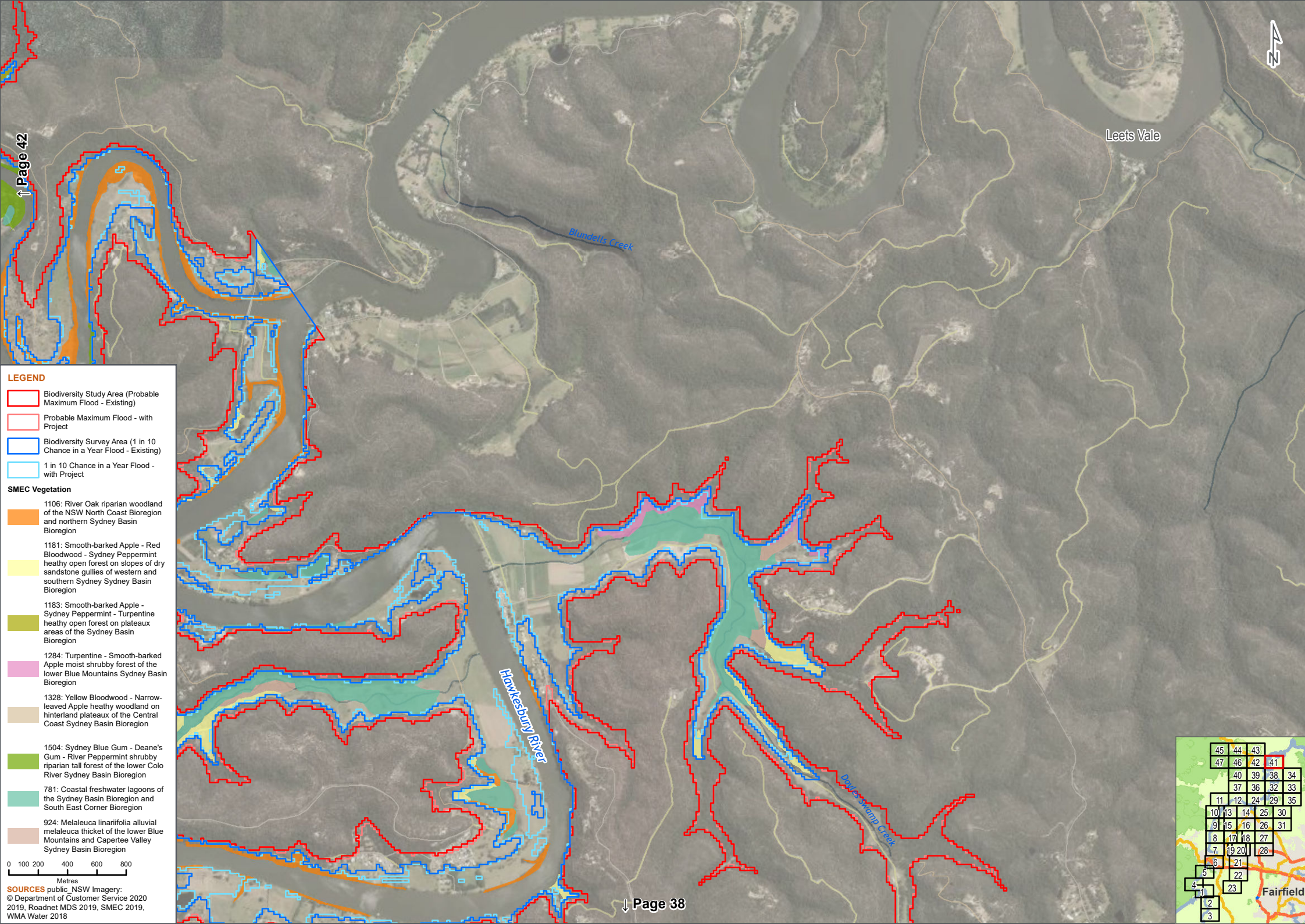
0 100 200 400 600 800  
Metres

**SOURCES** public\_NSW Imagery:  
© Department of Customer Service 2020  
2019, Roadnet MDS 2019, SMEC 2019, WMA Water 2018



Fairfield





Leets Vale

Blundells Creek

Hawkesbury River

Doyles Swamp Creek

Fairfield

**LEGEND**

Biodiversity Study Area (Probable Maximum Flood - Existing)

Probable Maximum Flood - with Project

Biodiversity Survey Area (1 in 10 Chance in a Year Flood - Existing)

1 in 10 Chance in a Year Flood - with Project

**SMEC Vegetation**

1106: River Oak riparian woodland of the NSW North Coast Bioregion and northern Sydney Basin Bioregion

1181: Smooth-barked Apple - Red Bloodwood - Sydney Peppermint heathy open forest on slopes of dry sandstone gullies of western and southern Sydney Sydney Basin Bioregion

1183: Smooth-barked Apple - Sydney Peppermint - Turpentine heathy open forest on plateaux areas of the Sydney Basin Bioregion

1284: Turpentine - Smooth-barked Apple moist shrubby forest of the lower Blue Mountains Sydney Basin Bioregion

1328: Yellow Bloodwood - Narrow-leaved Apple heathy woodland on hinterland plateaux of the Central Coast Sydney Basin Bioregion

1504: Sydney Blue Gum - Deane's Gum - River Peppermint shrubby riparian tall forest of the lower Colo River Sydney Basin Bioregion

781: Coastal freshwater lagoons of the Sydney Basin Bioregion and South East Corner Bioregion

924: Melaleuca linariifolia alluvial melaleuca thicket of the lower Blue Mountains and Capertee Valley Sydney Basin Bioregion

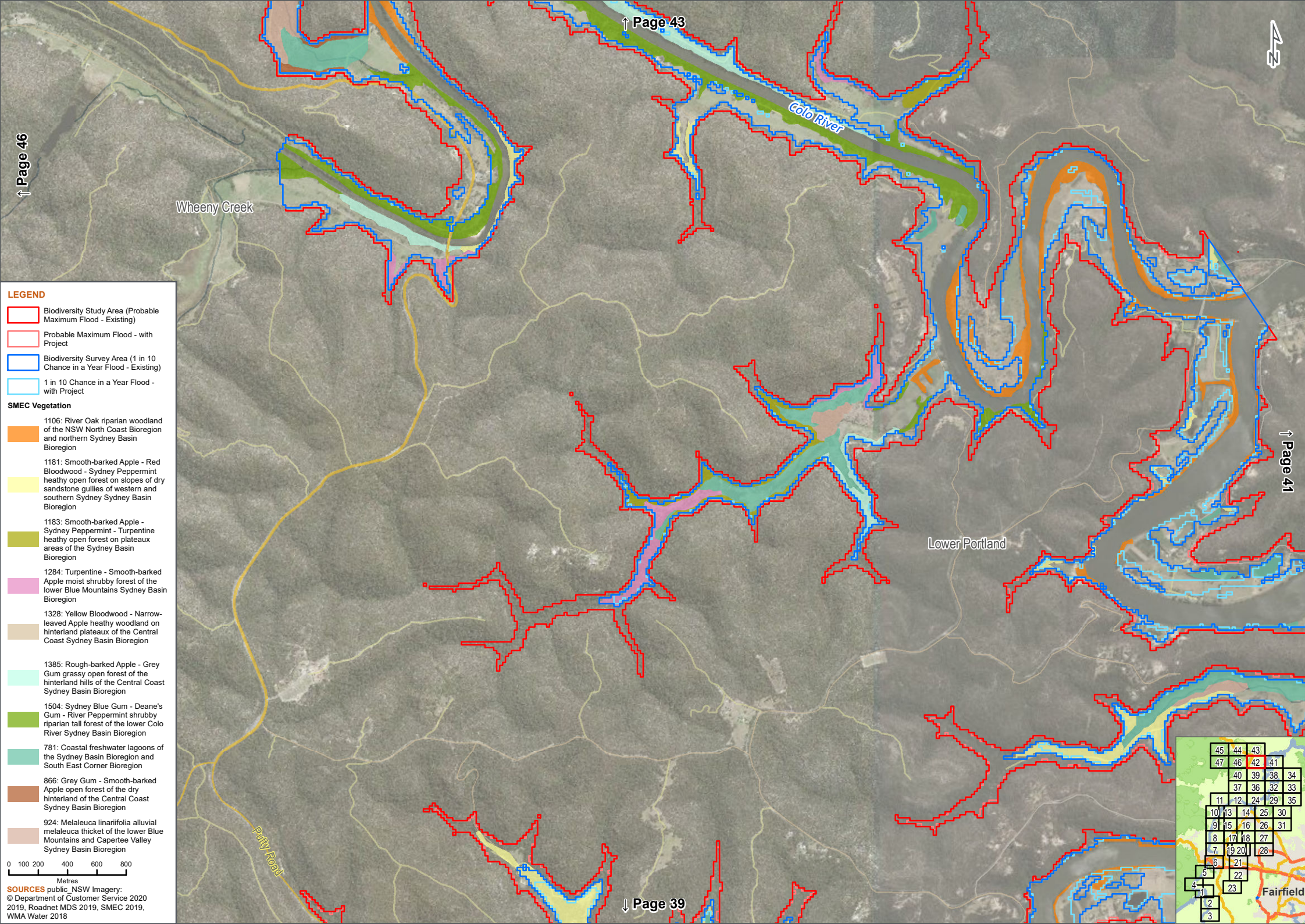
0 100 200 400 600 800

Metres

**SOURCES** public\_NSW Imagery;  
© Department of Customer Service 2020  
2019, Roadnet MDS 2019, SMEC 2019, WMA Water 2018

45	44	43		
47	46	42	41	
	40	39	38	34
	37	36	32	33
11	12	24	29	35
10	13	14	25	30
9	15	16	26	31
8	17	18	27	
7	19	20	28	
6	21			
5	22			
4	23			
3				





↑ Page 46

↑ Page 43

43

Wheeny Creek

Colo River

Lower Portland

↓ Page 41

**LEGEND**

- Biodiversity Study Area (Probable Maximum Flood - Existing)
- Probable Maximum Flood - with Project
- Biodiversity Survey Area (1 in 10 Chance in a Year Flood - Existing)
- 1 in 10 Chance in a Year Flood - with Project

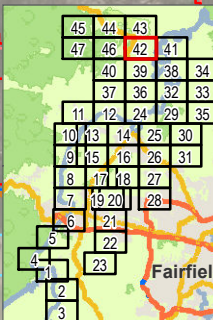
**SMEC Vegetation**

- 1106: River Oak riparian woodland of the NSW North Coast Bioregion and northern Sydney Basin Bioregion
- 1181: Smooth-barked Apple - Red Bloodwood - Sydney Peppermint heathy open forest on slopes of dry sandstone gullies of western and southern Sydney Basin Bioregion
- 1183: Smooth-barked Apple - Sydney Peppermint - Turpentine heathy open forest on plateaux areas of the Sydney Basin Bioregion
- 1284: Turpentine - Smooth-barked Apple moist shrubby forest of the lower Blue Mountains Sydney Basin Bioregion
- 1328: Yellow Bloodwood - Narrow-leaved Apple heathy woodland on hinterland plateaux of the Central Coast Sydney Basin Bioregion
- 1385: Rough-barked Apple - Grey Gum grassy open forest of the hinterland hills of the Central Coast Sydney Basin Bioregion
- 1504: Sydney Blue Gum - Deane's Gum - River Peppermint shrubby riparian tall forest of the lower Colo River Sydney Basin Bioregion
- 781: Coastal freshwater lagoons of the Sydney Basin Bioregion and South East Corner Bioregion
- 866: Grey Gum - Smooth-barked Apple open forest of the dry hinterland of the Central Coast Sydney Basin Bioregion
- 924: Melaleuca linariifolia alluvial melaleuca thicket of the lower Blue Mountains and Capertee Valley Sydney Basin Bioregion

0 100 200 400 600 800  
Metres

**SOURCES** public\_NSW Imagery;  
© Department of Customer Service 2020  
2019, Roadnet MDS 2019, SMEC 2019,  
WMA Water 2018

↓ Page 39



Fairfield



**LEGEND**

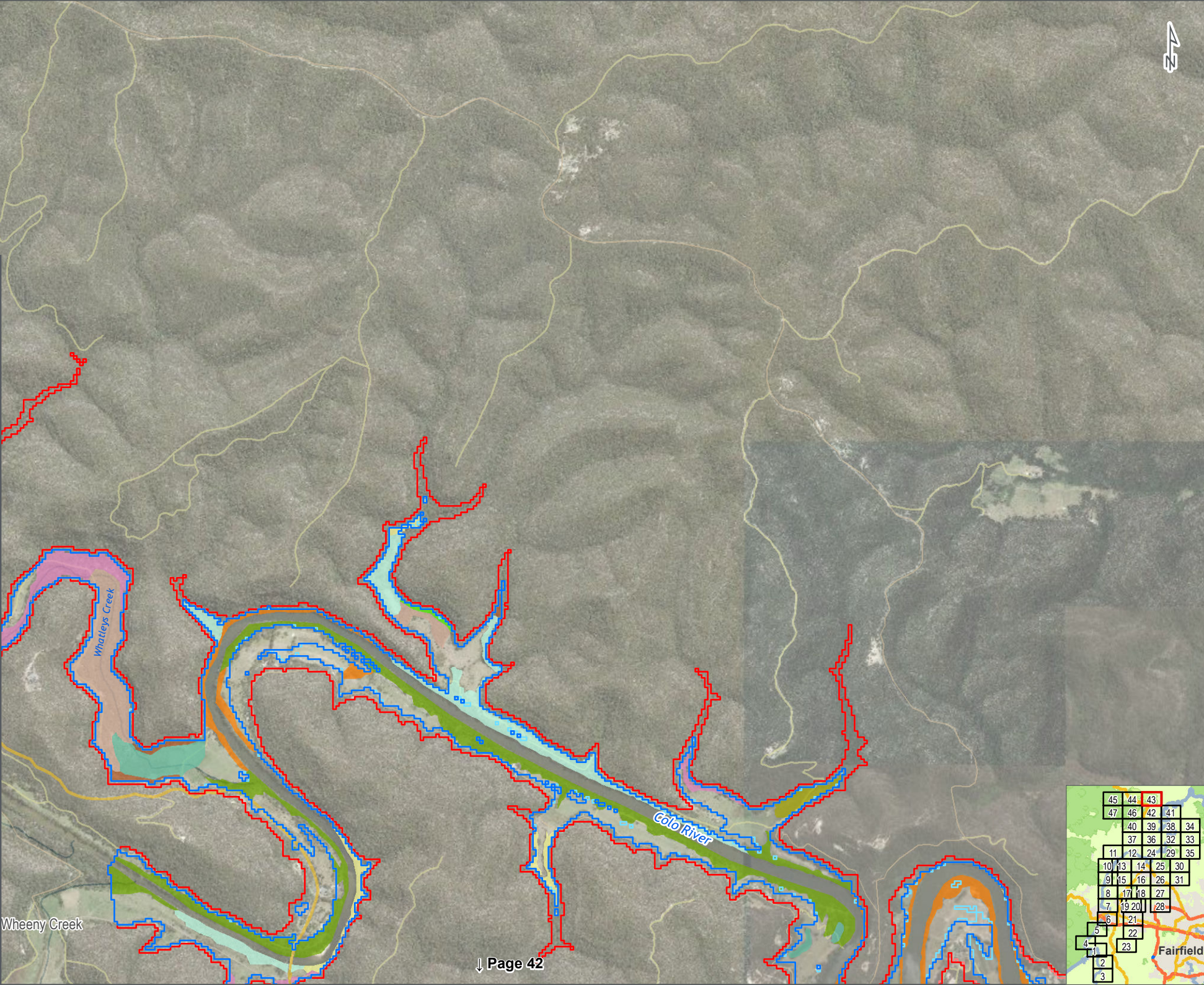
- Biodiversity Study Area (Probable Maximum Flood - Existing)
- Probable Maximum Flood - with Project
- Biodiversity Survey Area (1 in 10 Chance in a Year Flood - Existing)
- 1 in 10 Chance in a Year Flood - with Project

**SMEC Vegetation**

- 1106: River Oak riparian woodland of the NSW North Coast Bioregion and northern Sydney Basin Bioregion
- 1181: Smooth-barked Apple - Red Bloodwood - Sydney Peppermint heathy open forest on slopes of dry sandstone gullies of western and southern Sydney Sydney Basin Bioregion
- 1183: Smooth-barked Apple - Sydney Peppermint - Turpentine heathy open forest on plateau areas of the Sydney Basin Bioregion
- 1284: Turpentine - Smooth-barked Apple moist shrubby forest of the lower Blue Mountains Sydney Basin Bioregion
- 1327: Yellow Bloodwood - ironbark shrubby woodland of the dry hinterland of the Central Coast Sydney Basin Bioregion
- 1328: Yellow Bloodwood - Narrow-leaved Apple heathy woodland on hinterland plateaux of the Central Coast Sydney Basin Bioregion
- 1385: Rough-barked Apple - Grey Gum grassy open forest of the hinterland hills of the Central Coast Sydney Basin Bioregion
- 1504: Sydney Blue Gum - Deane's Gum - River Peppermint shrubby riparian tall forest of the lower Colo River Sydney Basin Bioregion
- 781: Coastal freshwater lagoons of the Sydney Basin Bioregion and South East Corner Bioregion
- 866: Grey Gum - Smooth-barked Apple open forest of the dry hinterland of the Central Coast Sydney Basin Bioregion
- 924: Melaleuca linariifolia alluvial melaleuca thicket of the lower Blue Mountains and Capertee Valley Sydney Basin Bioregion

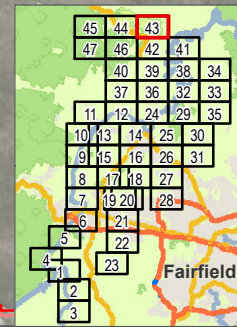
0 100 200 400 600 800  
Metres

**SOURCES** public\_NSW Imagery;  
© Department of Customer Service 2020  
2019, Roadnet MDS 2019, SMEC 2019,  
WMA Water 2018



Whetleys Creek

Colo River



Fairfield



**LEGEND**

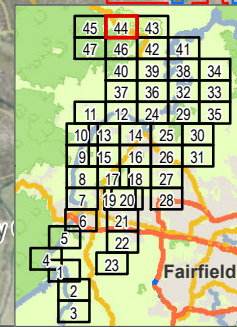
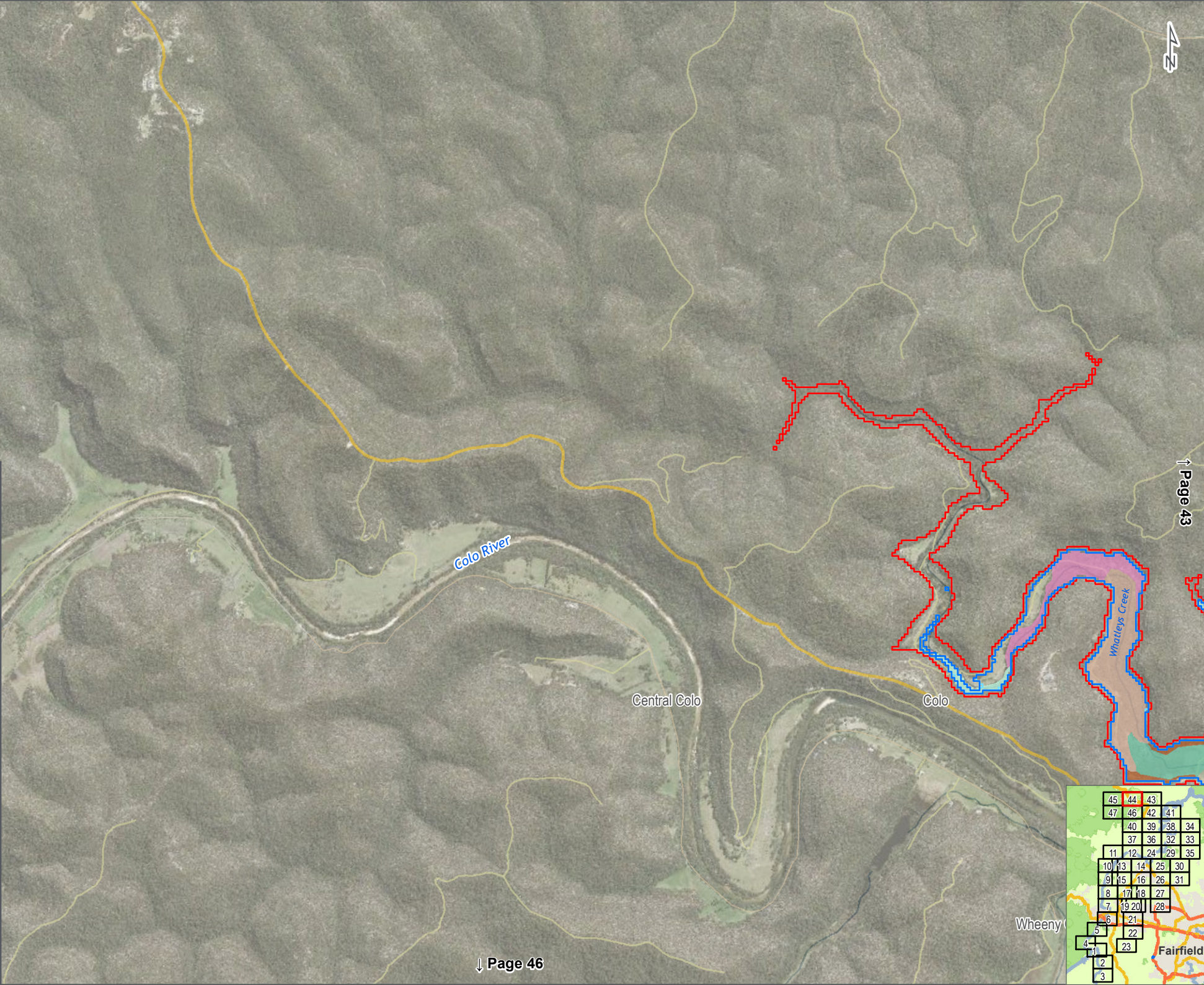
- Biodiversity Study Area (Probable Maximum Flood - Existing)
- Probable Maximum Flood - with Project
- Biodiversity Survey Area (1 in 10 Chance in a Year Flood - Existing)
- 1 in 10 Chance in a Year Flood - with Project

**SMEC Vegetation**

- 1284: Turpentine - Smooth-barked Apple moist shrubby forest of the lower Blue Mountains Sydney Basin Bioregion
- 1328: Yellow Bloodwood - Narrow-leaved Apple heathy woodland on hinterland plateaux of the Central Coast Sydney Basin Bioregion
- 1385: Rough-barked Apple - Grey Gum grassy open forest of the hinterland hills of the Central Coast Sydney Basin Bioregion
- 1504: Sydney Blue Gum - Deane's Gum - River Peppermint shrubby riparian tall forest of the lower Colo River Sydney Basin Bioregion
- 781: Coastal freshwater lagoons of the Sydney Basin Bioregion and South East Corner Bioregion
- 866: Grey Gum - Smooth-barked Apple open forest of the dry hinterland of the Central Coast Sydney Basin Bioregion
- 924: Melaleuca linariifolia alluvial melaleuca thicket of the lower Blue Mountains and Capertee Valley Sydney Basin Bioregion

0 100 200 400 600 800  
Metres

**SOURCES** public\_NSW Imagery;  
© Department of Customer Service 2020  
2019, Roadnet MDS 2019, SMEC 2019,  
WMA Water 2018



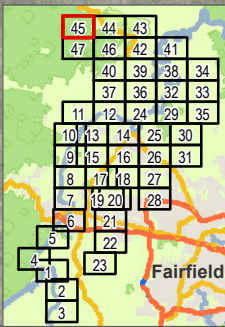




**LEGEND**

0 100 200 400 600 800  
Metres

**SOURCES** public\_NSW Imagery;  
© Department of Customer Service 2020  
2019, Roadnet MDS 2019, SMEC 2019,  
WMA Water 2018









Gospers Creek

Wheeny Creek



