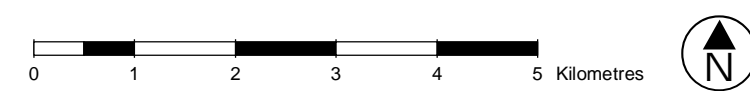


Legend

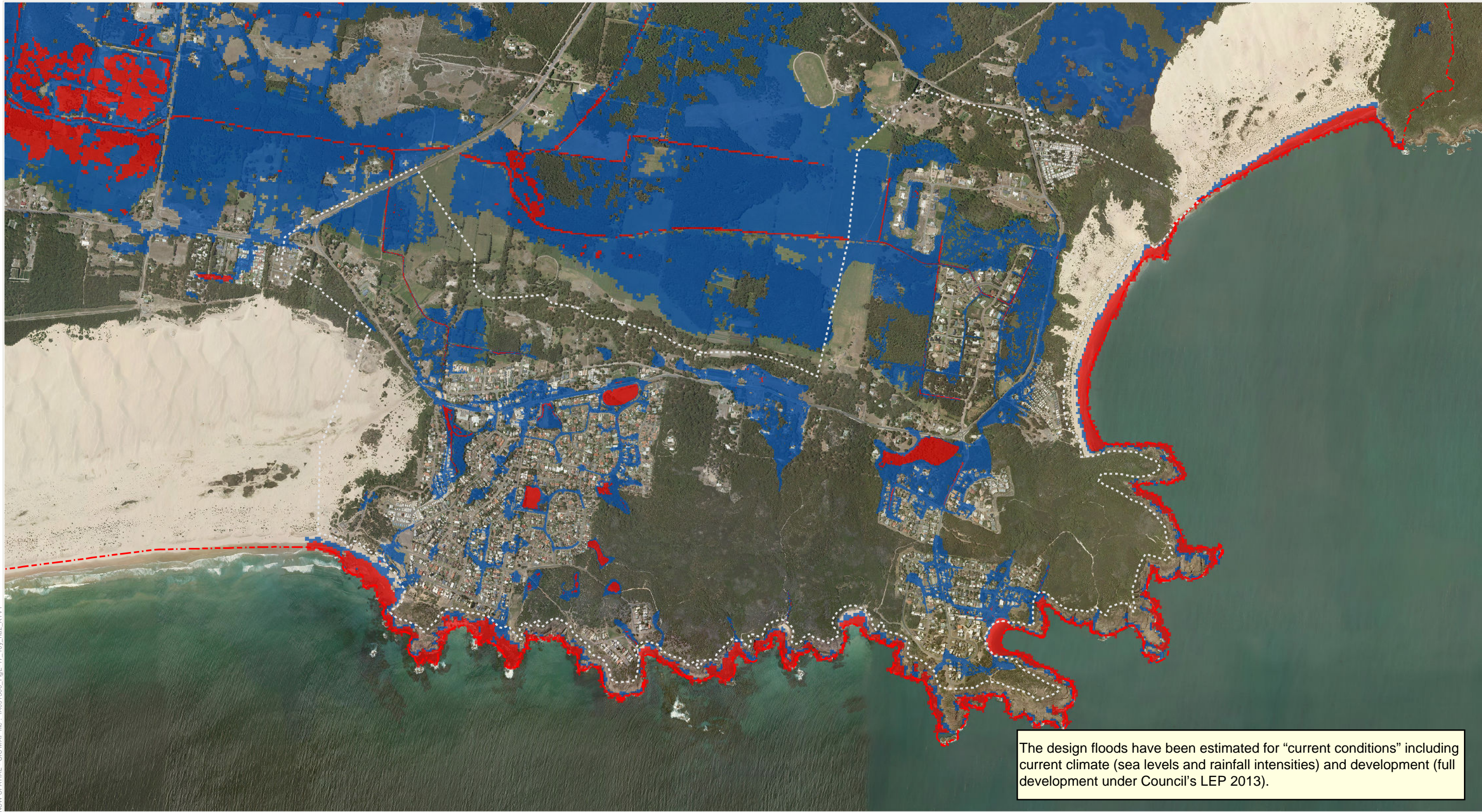
- | | |
|---------------------|-----------------------------------|
| Flood Hazard | Study Area |
| Low hazard | Urban Area TUFLOW Model (2m grid) |
| High hazard | |



1:75,000@ A3

Figure E-17 10% AEP Provisional Flood Hazard - Overall Study Area View





NSW SPATIAL - GIS MAP file : JA091300_EgE-17_10y_haz_R1V1

The design floods have been estimated for "current conditions" including current climate (sea levels and rainfall intensities) and development (full development under Council's LEP 2013).

Legend

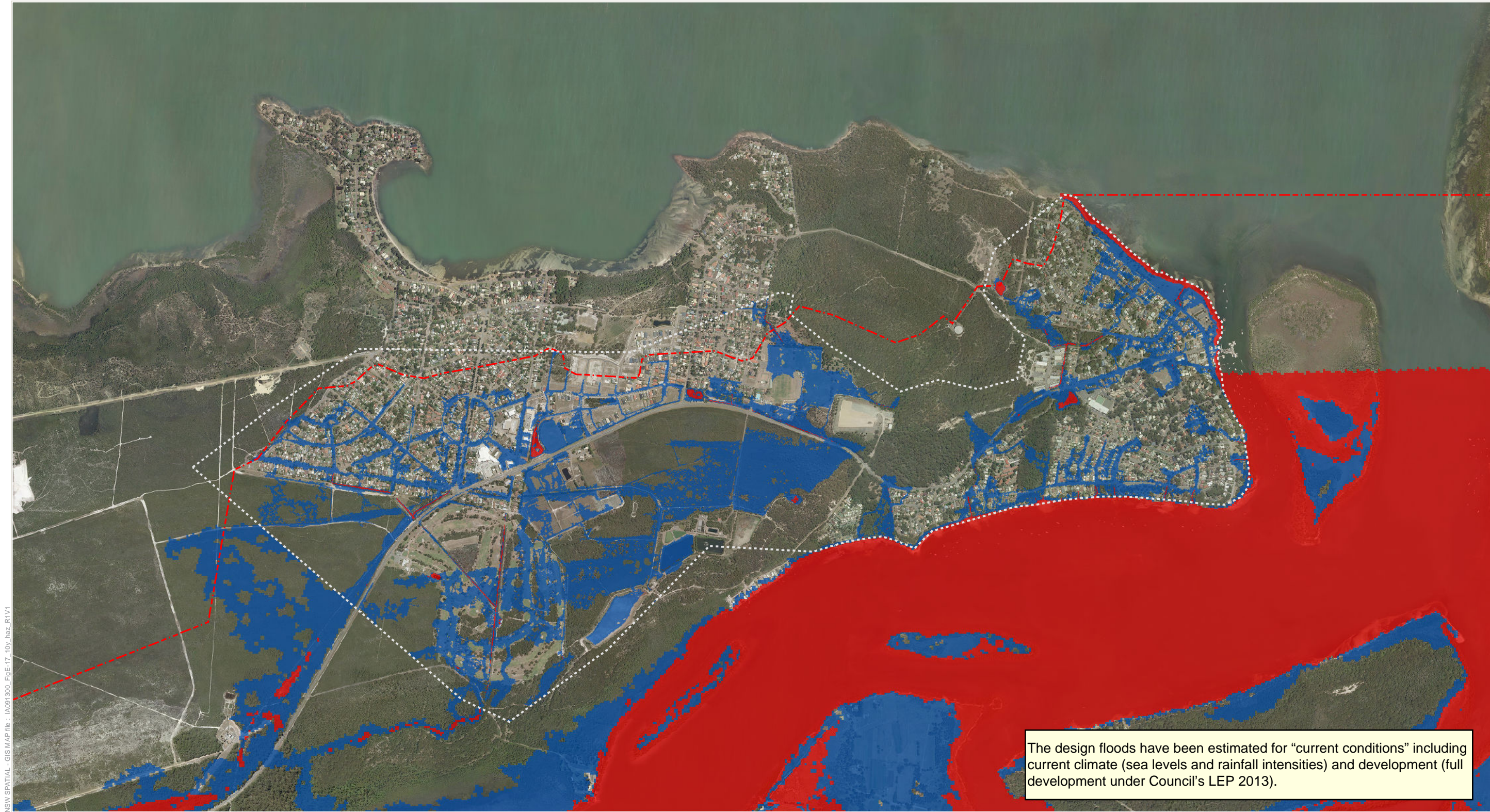
- | | |
|---------------------|-----------------------------------|
| Flood Hazard | Study Area |
| Low hazard | Urban Area TUFLOW Model (2m grid) |
| High hazard | |



1:20,000@ A3

Figure E-17A 10% AEP Provisional Flood Hazard - Anna Bay Urban Area





NSW SPATIAL - GIS MAP file : JA091300_EgE-17_10y_haz_R1V1

The design floods have been estimated for "current conditions" including current climate (sea levels and rainfall intensities) and development (full development under Council's LEP 2013).

Legend

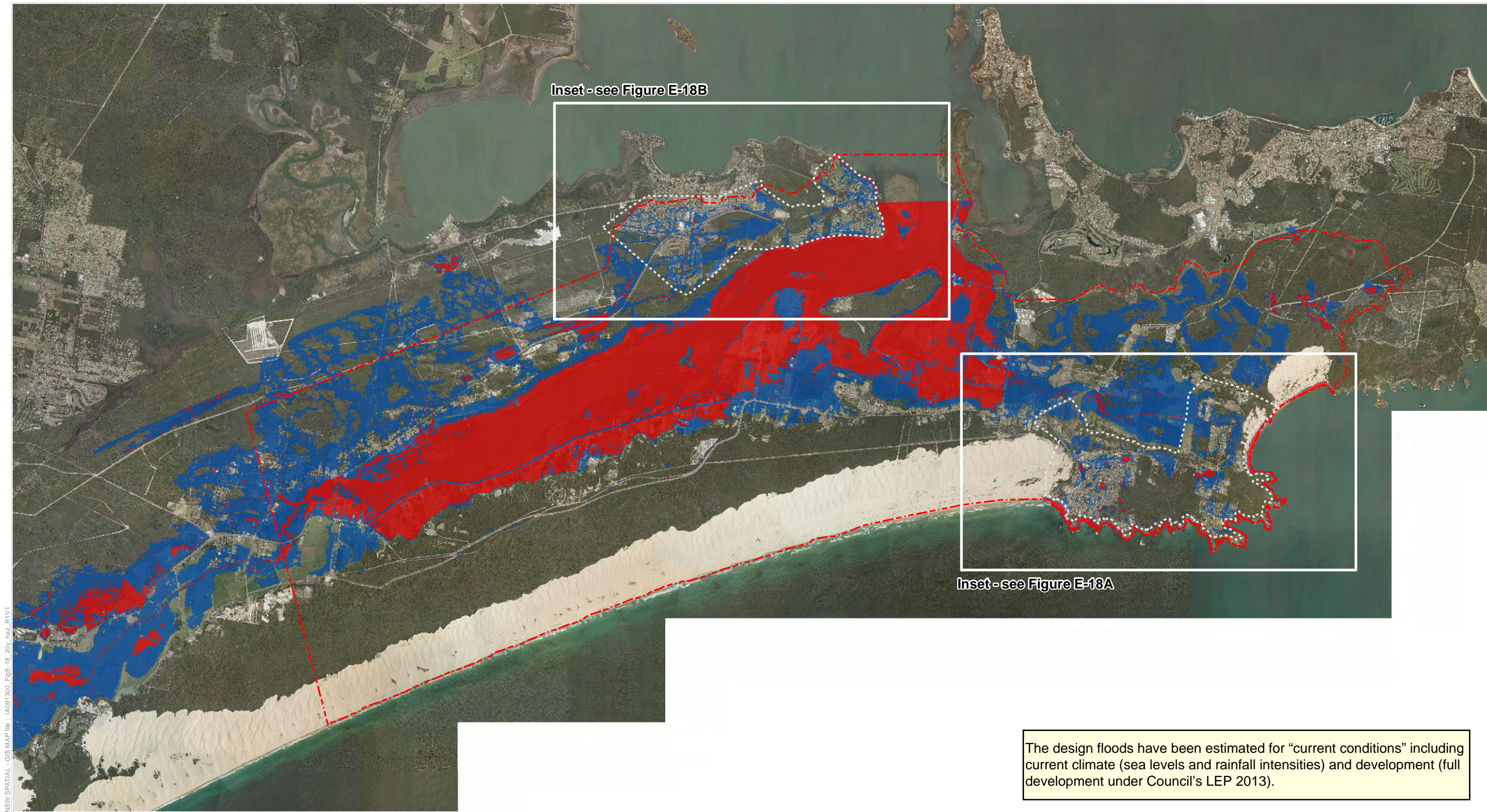
- Flood Hazard**
- Low hazard
- High hazard
- Study Area
- Urban Area TUFLOW Model (2m grid)



1:20,000@ A3

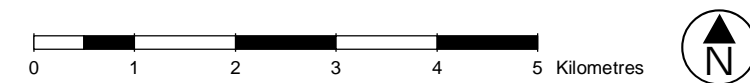
Figure E-17B 10% AEP Provisional Flood Hazard - Tilligerry Peninsula Urban Area





Legend

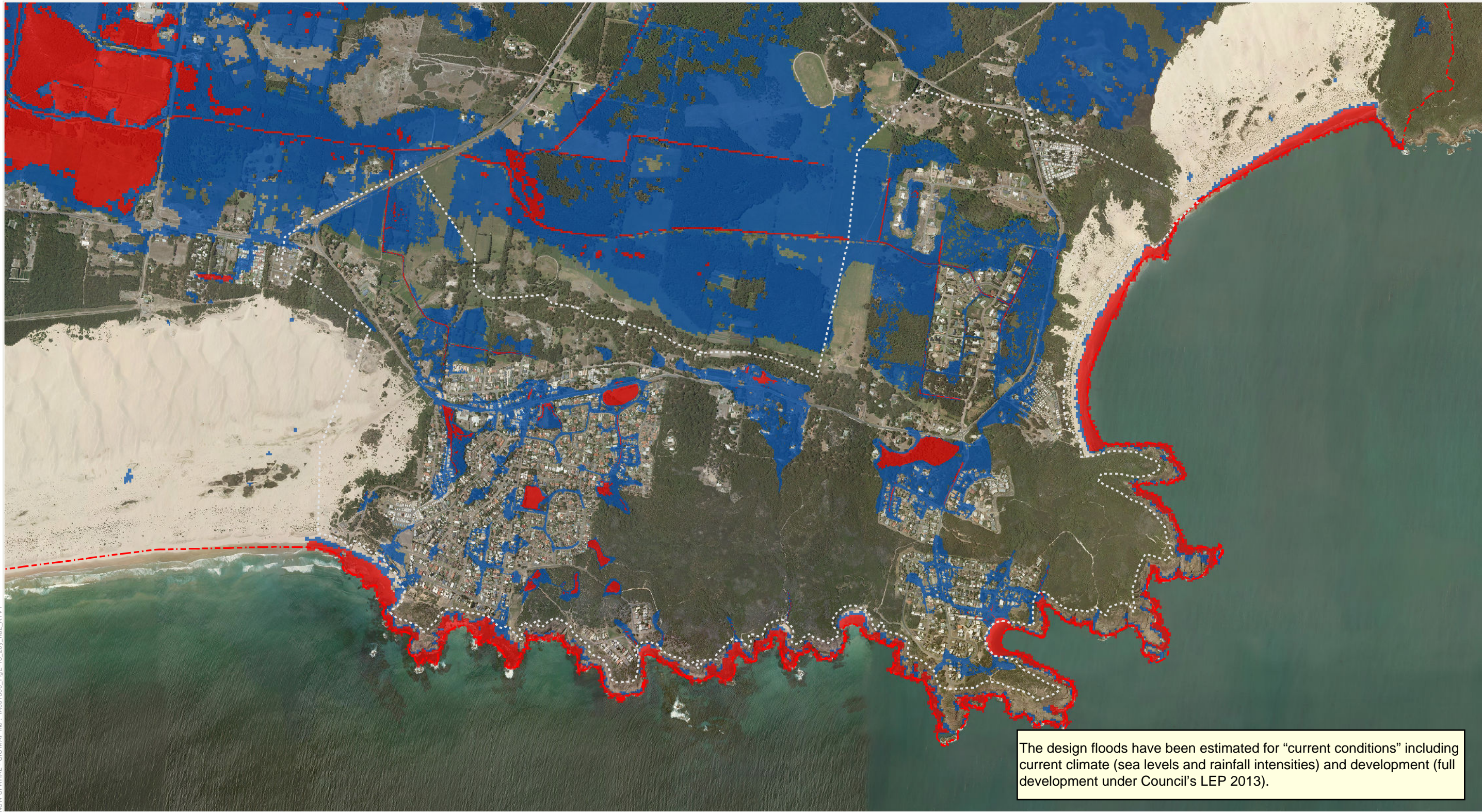
- | | |
|---------------------|-----------------------------------|
| Flood Hazard | Study Area |
| Low hazard | Urban Area TUFLOW Model (2m grid) |
| High hazard | |



1:75,000@ A3

Figure E-18 5% AEP Provisional Flood Hazard - Overall Study Area View





NSW SPATIAL - GIS MAP file : JA091300_EgE-18_20y_haz_R1V1

The design floods have been estimated for "current conditions" including current climate (sea levels and rainfall intensities) and development (full development under Council's LEP 2013).

Legend

Flood Hazard

- Low hazard
- High hazard

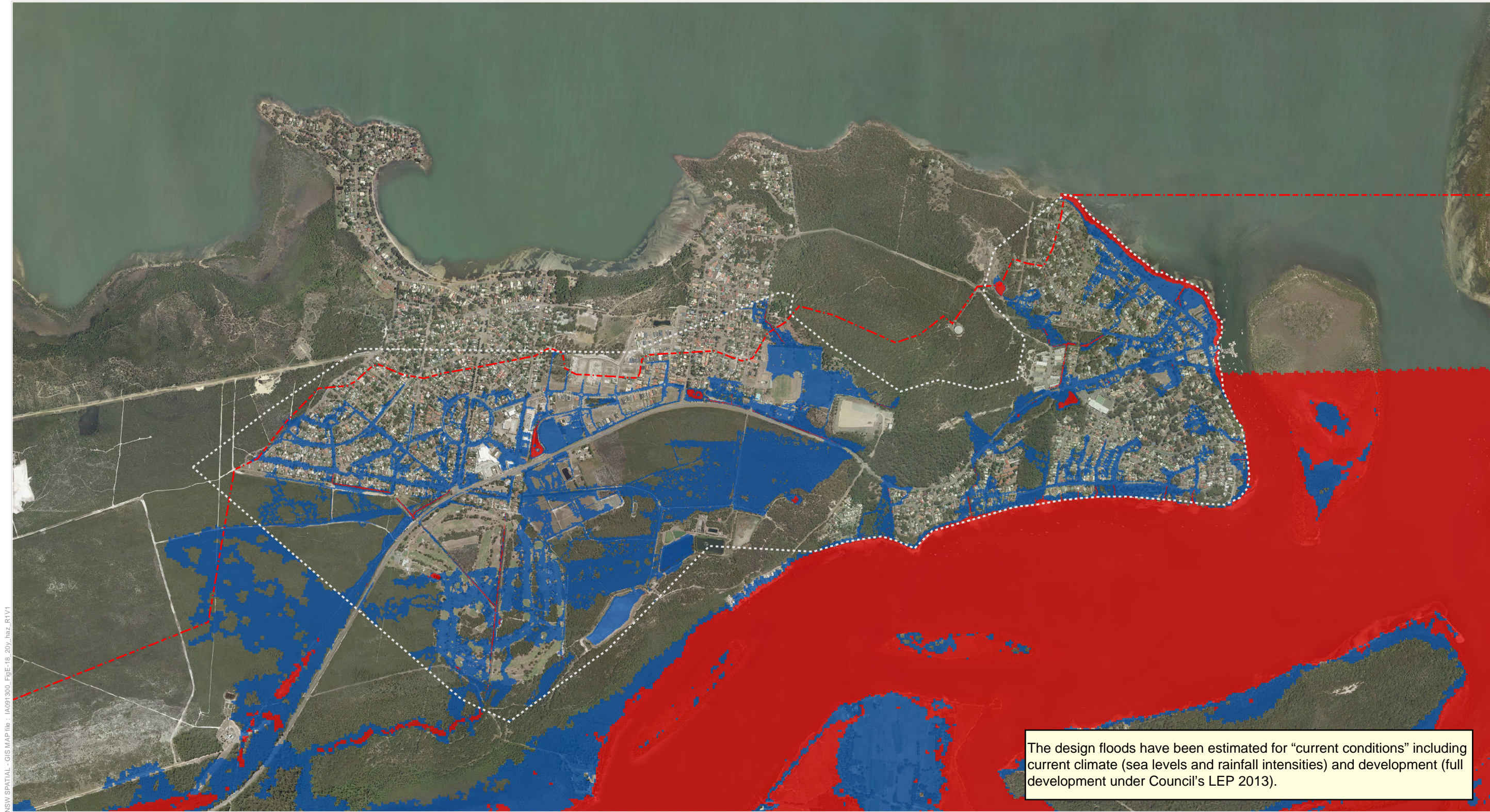
- Study Area
- Urban Area TUFLOW Model (2m grid)



1:20,000@ A3

Figure E-18A 5% AEP Provisional Flood Hazard - Anna Bay Urban Area





NSW SPATIAL - GIS MAP file : IA091300_EgE-18_20y_haz_R1V1

The design floods have been estimated for "current conditions" including current climate (sea levels and rainfall intensities) and development (full development under Council's LEP 2013).

Legend

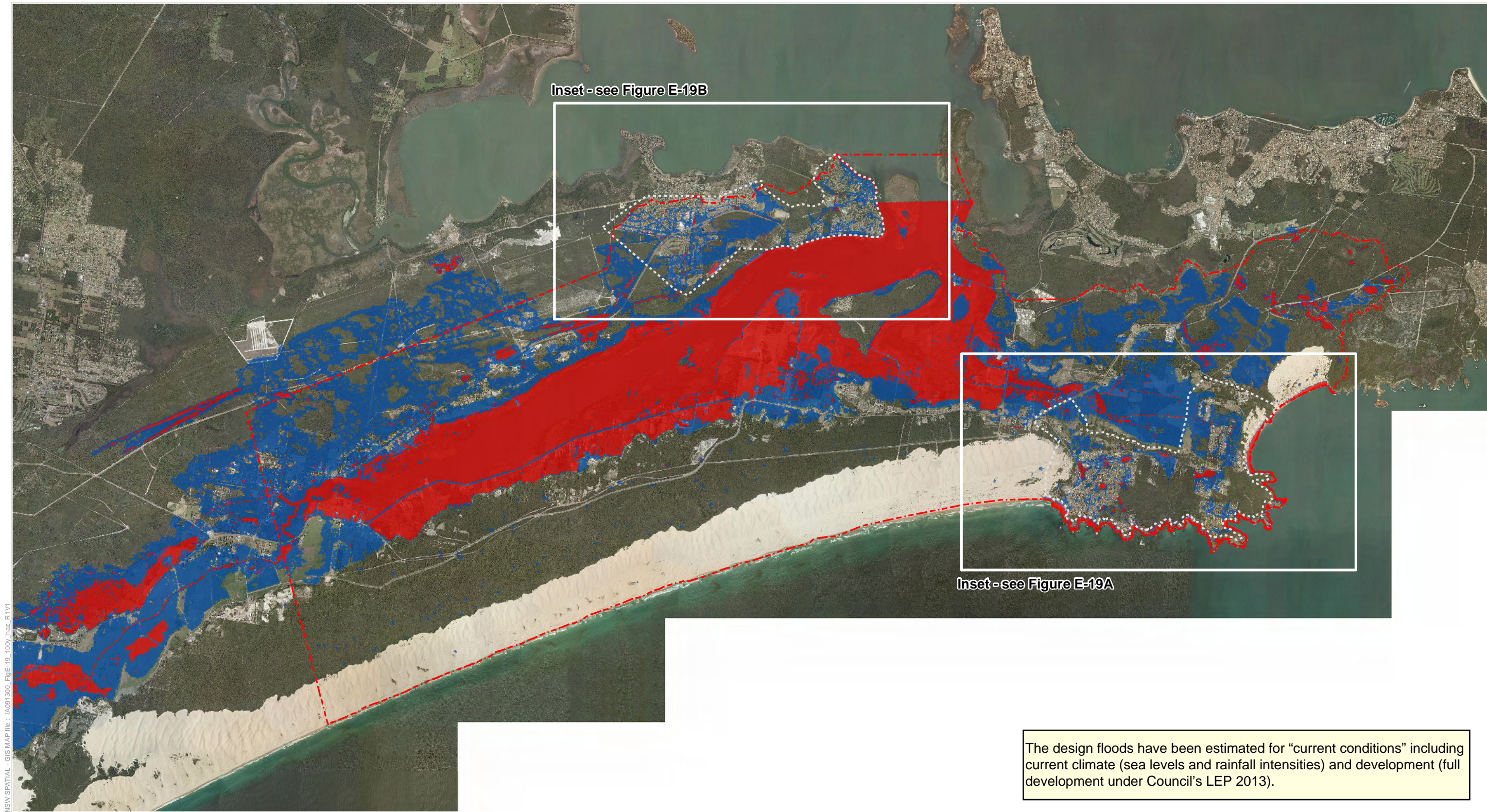
- | | |
|---------------------|-----------------------------------|
| Flood Hazard | Study Area |
| Low hazard | Urban Area TUFLOW Model (2m grid) |
| High hazard | |



1:20,000@ A3

Figure E-18B 5% AEP Provisional Flood Hazard - Tilligerry Peninsula Urban Area

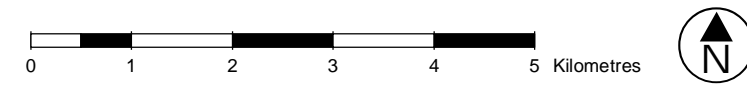




NSW SPATIAL - GIS MAP file : JA091300_EgE-19_100y_haz_R1V1

Legend

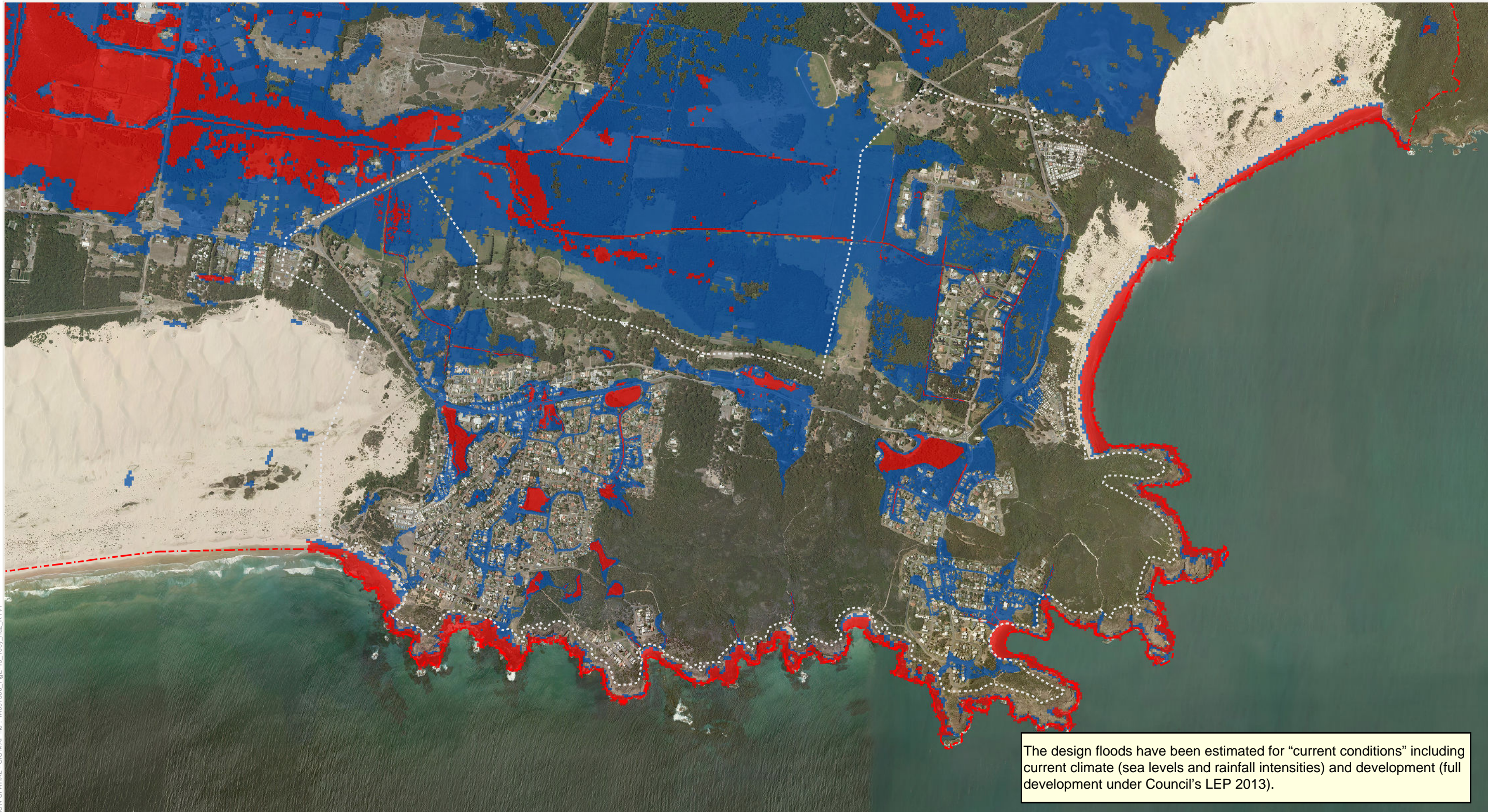
- | | |
|---------------------|-----------------------------------|
| Flood Hazard | Study Area |
| Low hazard | Urban Area TUFLOW Model (2m grid) |
| High hazard | |



1:75,000@ A3

Figure E-19 1% AEP Provisional Flood Hazard - Overall Study Area View





NSW SPATIAL - GIS MAP file : JA091300_EgE-19_100y_haz_R1V1

Legend

- | | |
|---------------------|-----------------------------------|
| Flood Hazard | Study Area |
| Low hazard | Urban Area TUFLOW Model (2m grid) |
| High hazard | |

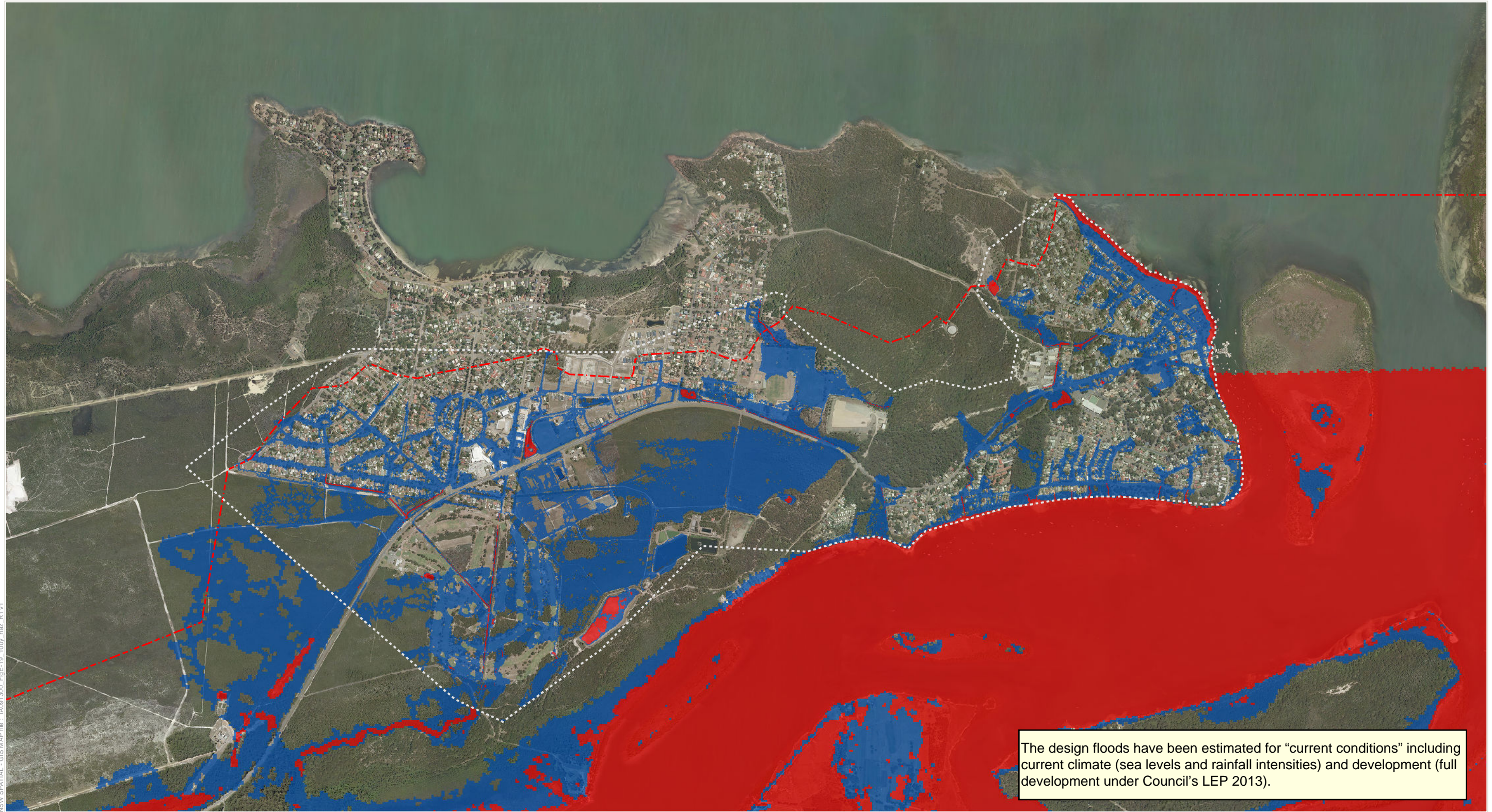


1:20,000@ A3

Figure E-19A 1% AEP Provisional Flood Hazard - Anna Bay Urban Area



NSW SPATIAL - GIS MAP file : JA091300_EgE-19_100y_haz_R1V1



The design floods have been estimated for "current conditions" including current climate (sea levels and rainfall intensities) and development (full development under Council's LEP 2013).

Legend

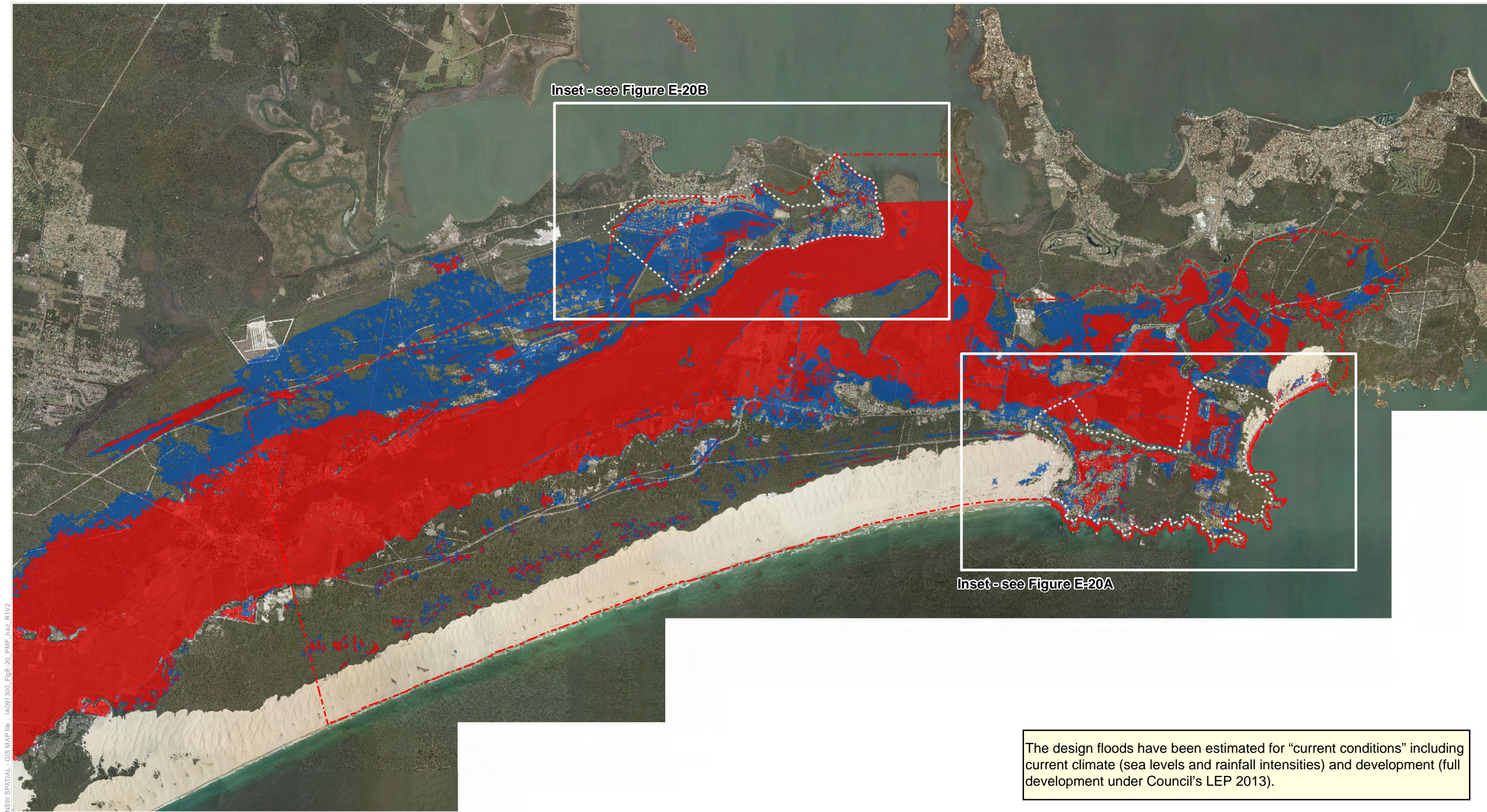
- | | |
|---------------------|-----------------------------------|
| Flood Hazard | Study Area |
| Low hazard | Urban Area TUFLOW Model (2m grid) |
| High hazard | |



1:20,000@ A3

Figure E-19B 1% AEP Provisional Flood Hazard - Tilligerry Peninsula Urban Area

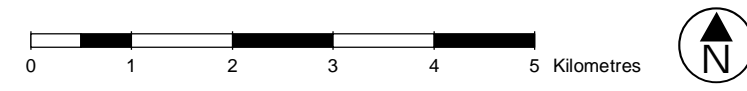




NSW SPATIAL - GIS MAP file : JA091300_EgE-20_PMF_haz_R1V2

Legend

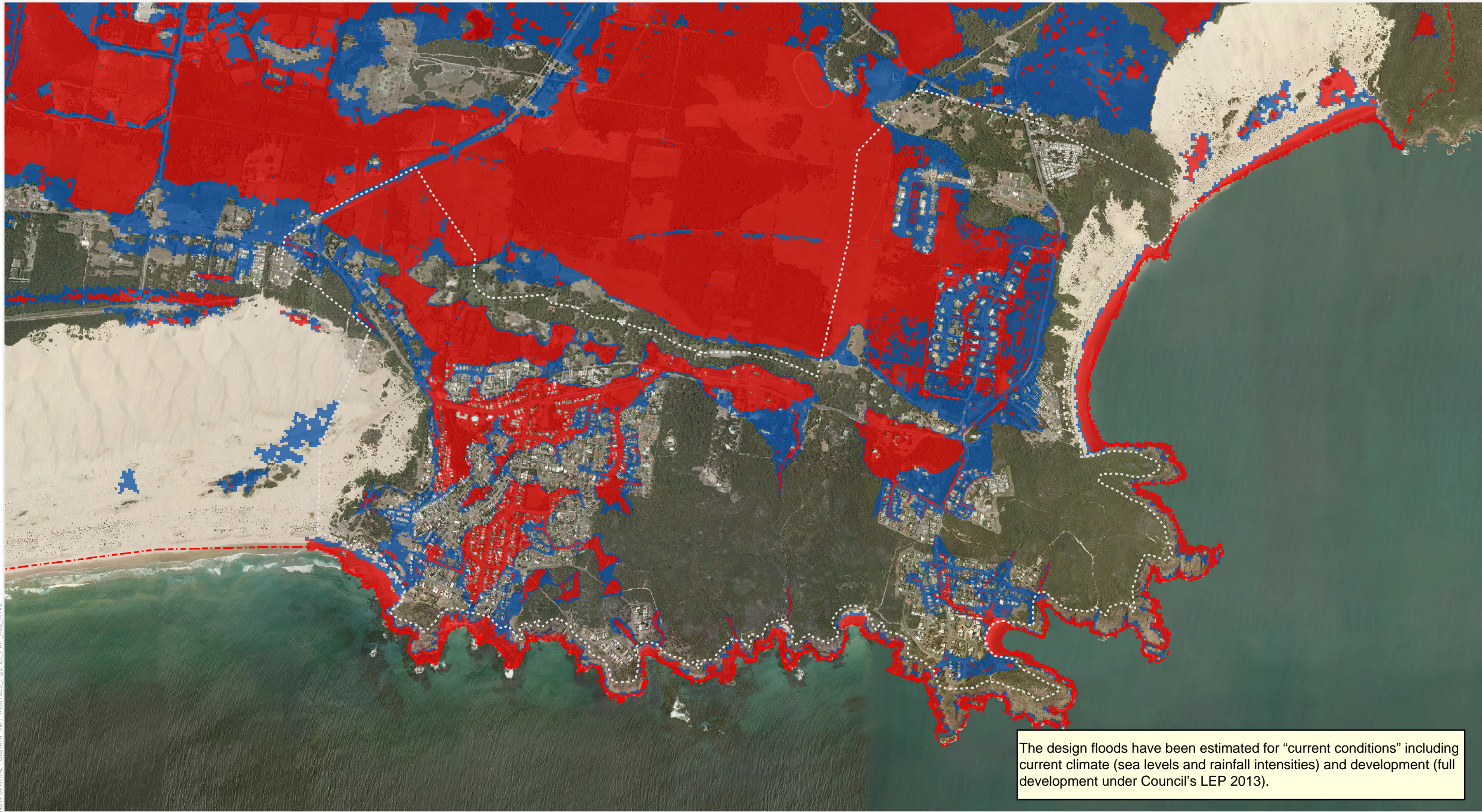
- Flood Hazard**
- Low hazard
- High hazard
- Study Area
- Urban Area TUFLOW Model (2m grid)



1:75,000@ A3

Figure E-20 Probable Maximum Flood Provisional Flood Hazard - Overall Study Area View





NSW SPATIAL - GIS MAP file : JA091300_EgE-20_PMF_haz_R1V2

The design floods have been estimated for "current conditions" including current climate (sea levels and rainfall intensities) and development (full development under Council's LEP 2013).

Legend

Flood Hazard

- Low hazard
- High hazard

- Study Area
- Urban Area TUFLOW Model (2m grid)

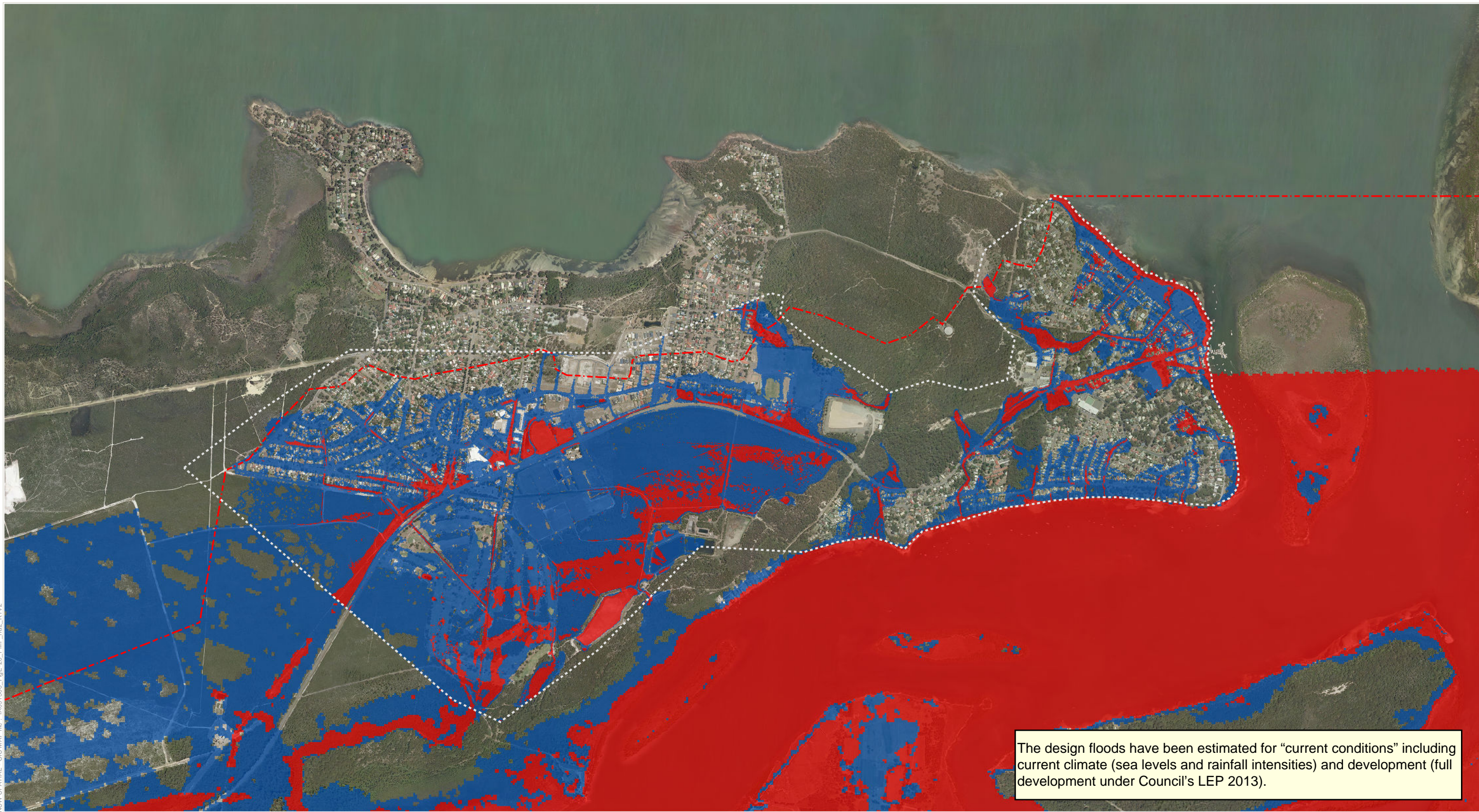


1:20,000@ A3

Figure E-20A Probable Maximum Flood Provisional Flood Hazard - Anna Bay Urban Area



NSW SPATIAL - GIS MAP file : IA091300_EgE-20_PMF_haz_R1V2



The design floods have been estimated for "current conditions" including current climate (sea levels and rainfall intensities) and development (full development under Council's LEP 2013).

Legend

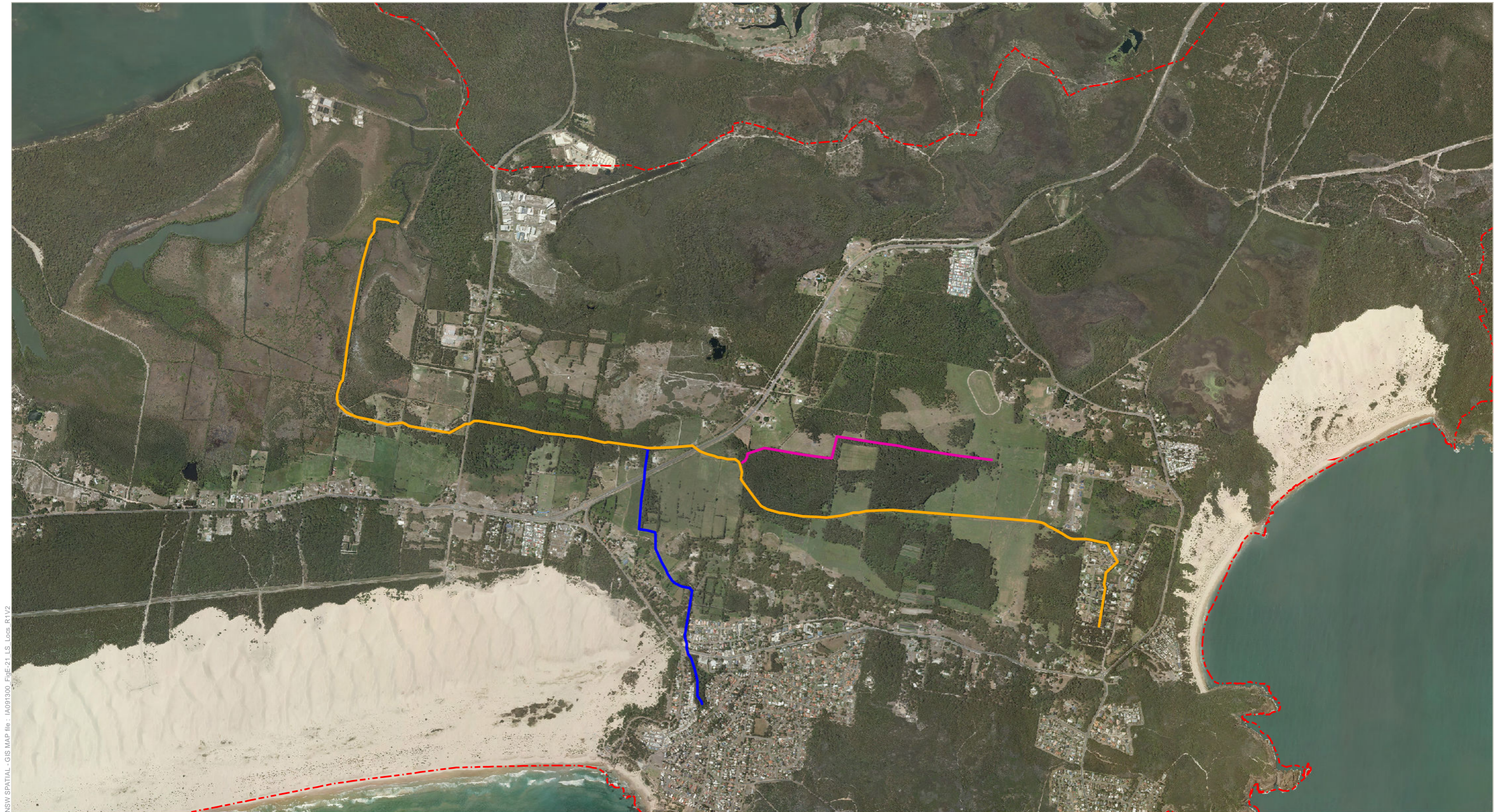
- | | |
|---------------------|-----------------------------------|
| Flood Hazard | Study Area |
| Low hazard | Urban Area TUFLOW Model (2m grid) |
| High hazard | |



1:20,000@ A3

Figure E-20B Probable Maximum Flood Provisional Flood Hazard - Tilligerry Peninsula Urban Area

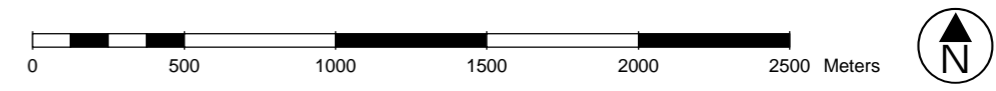




NSW SPATIAL - GIS MAP file : JA091300_FigE-21_LS_Locs_R1V2

Legend

- Long Section Locations Study Area
- Main Drain. Refer Figure E-22
- Back Drain. Refer Figure E-23
- Fern Tree Drain. Refer Figure E24



1:25,000@ A3

Figure E-21 Flood Profile Long Section Locations



Figure E-22 Design Water Level Profiles – Main Drain – Current climate and development conditions

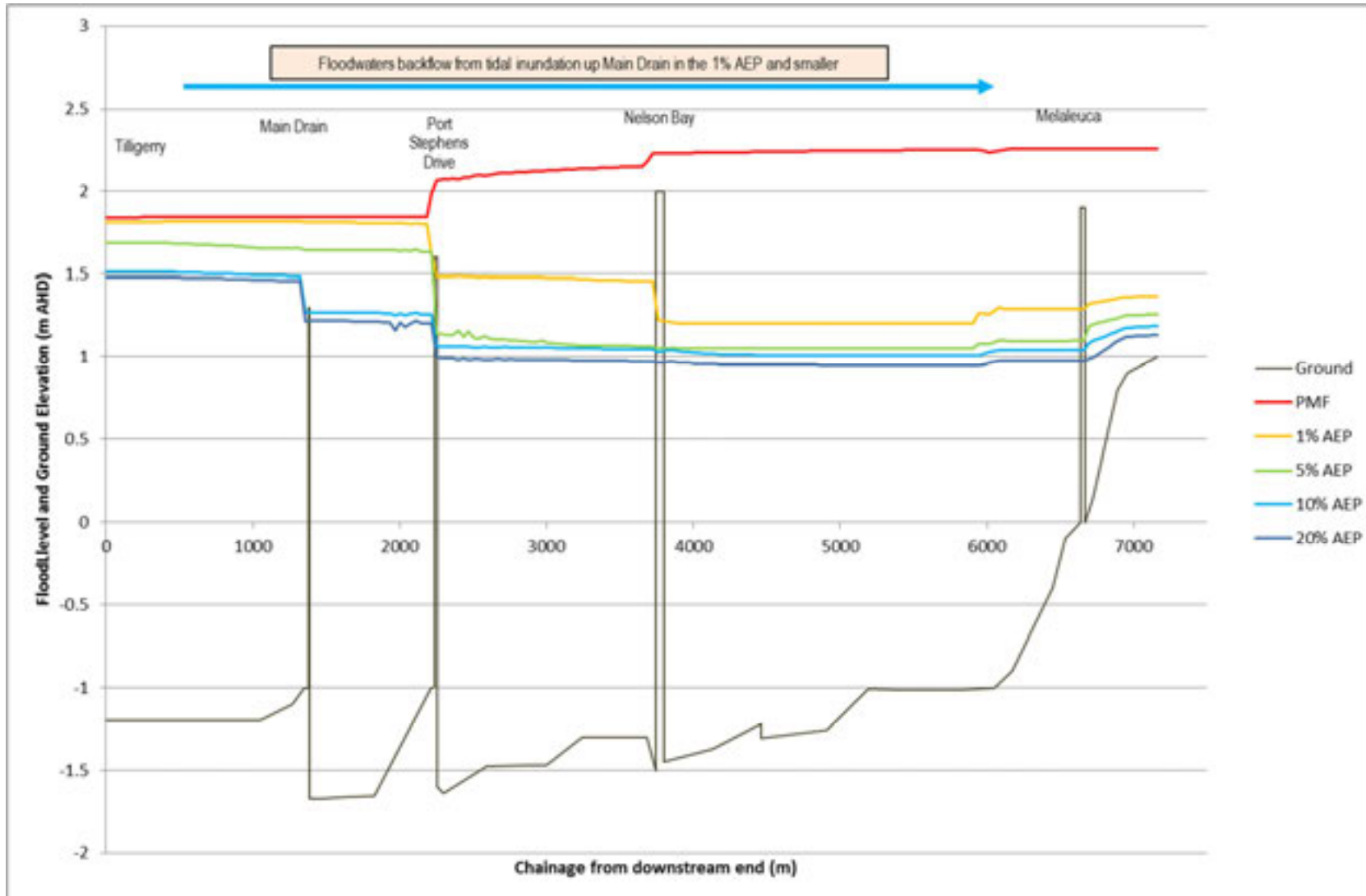


Figure E-23 Design Water Level Profiles – Back Drain – Current climate and development conditions

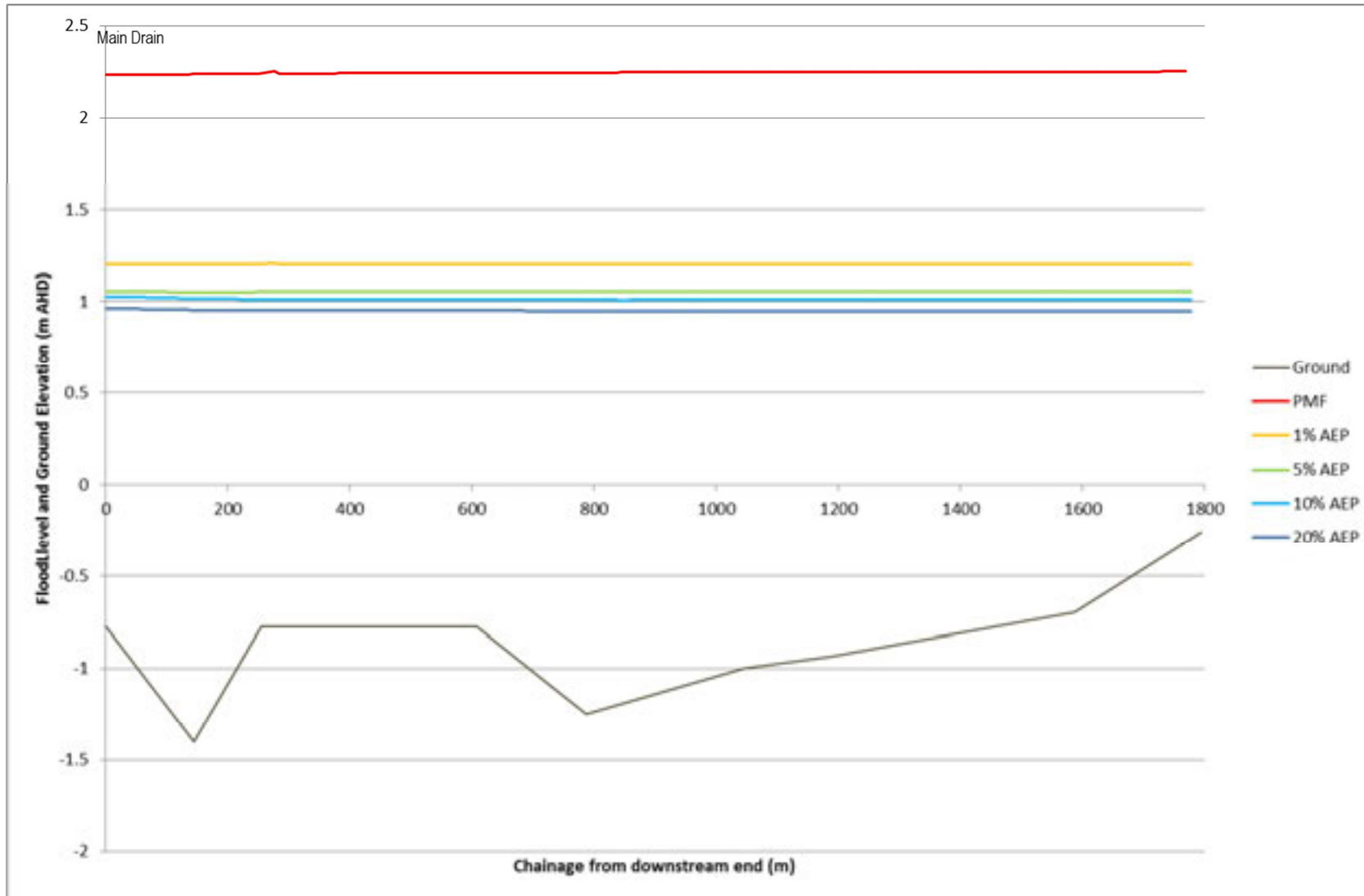
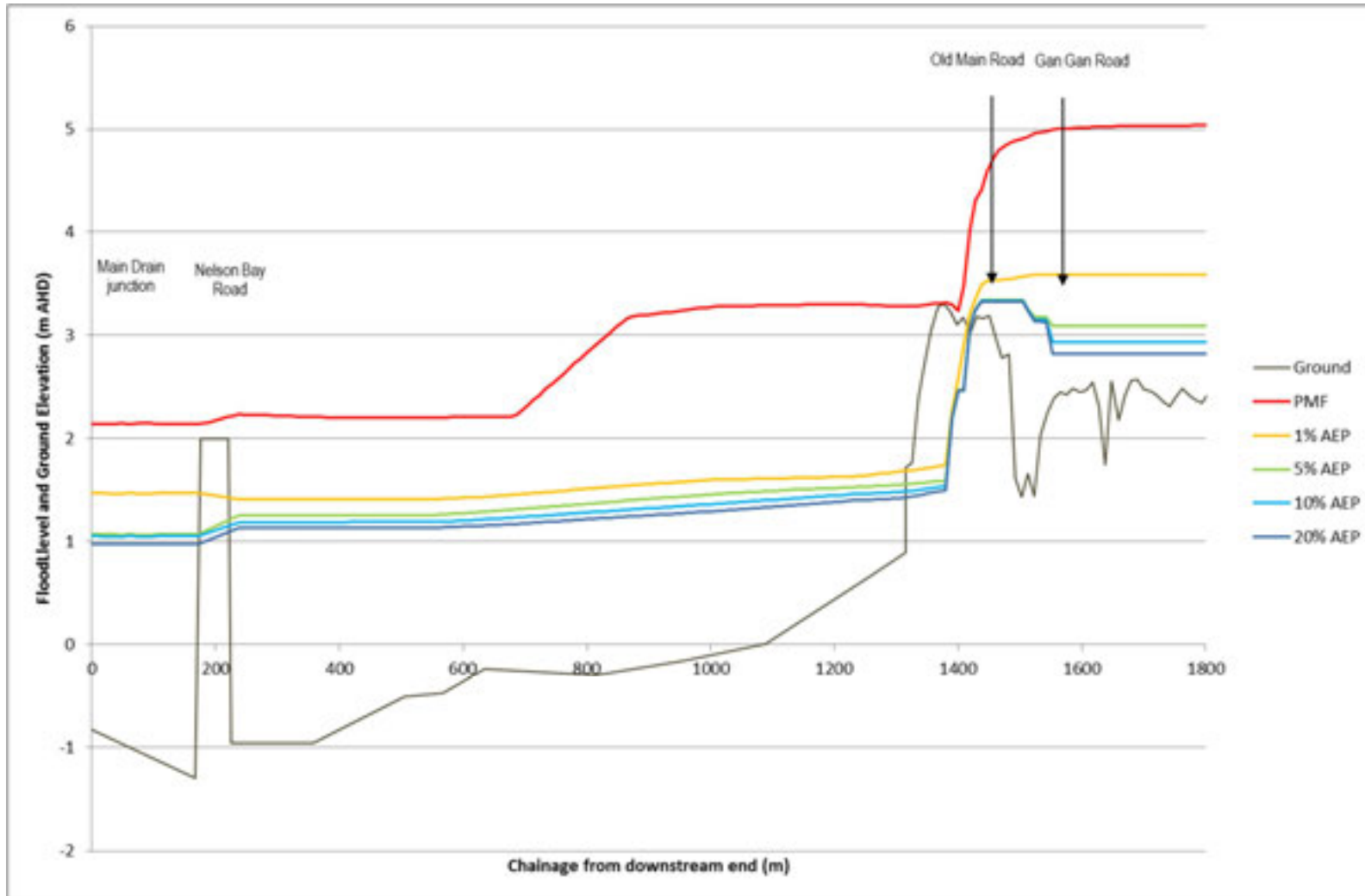


Figure E- 24 Design Water Level Profiles – Fern Tree Drain – Current climate and development conditions



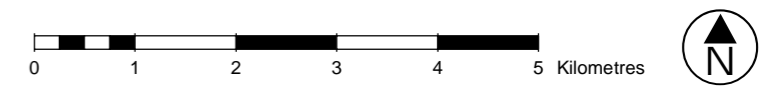


NSW SPATIAL - GIS MAP file : JA081300_EgE-25_InundationPlot_Locs_R1V2

ID	Location	ID	Location
1	Tilligerry_DS	12	Lemon Tree Passage Rd 100m north of Michael Dr
2	Tilligerry_US	13	Lemon Tree Passage Rd 500m north of Rookes Rd south end
3	Port Stephens Dr 820m north of Nelson Bay Rd	14	Lemon Tree Passage Rd 450m south of Rookes Rd north end
4	Nelson Bay Road 850m north of Gan Gan Road south end	15	Tilligerry Track at President Poincare Pde
5	Nelson Bay Road 270m north of Gan Gan Road south end	16	Lloyd George Grove at President Wilson Walk
6	McKinley Swamp	17	Lemon Tree Passage Rd 180m east of Oyster Farm Rd
7	Gan Gan Rd at Morna Point Rd	18	Shearman Avenue near Mackie St
8	Gan Gan Rd Clark St low point	19	Cook Pde 80m north of Meredith Ave
9	Gan Gan Rd 250m west of Blanch St	20	Paroa Ave
10	Marsh Rd 1.5km from Nelson Bay Rd east end	21	One Mile residential - Main Drain
11	Marsh Rd 650m from Nelson Bay Rd west end		

Legend

- Inundation Plot Location
- Study Area



1:75,000@ A3

Figure E-25 Inundation Plot Locations



Figure E-26 Flood Level versus Time – Tilligerry Creek downstream – Current day conditions

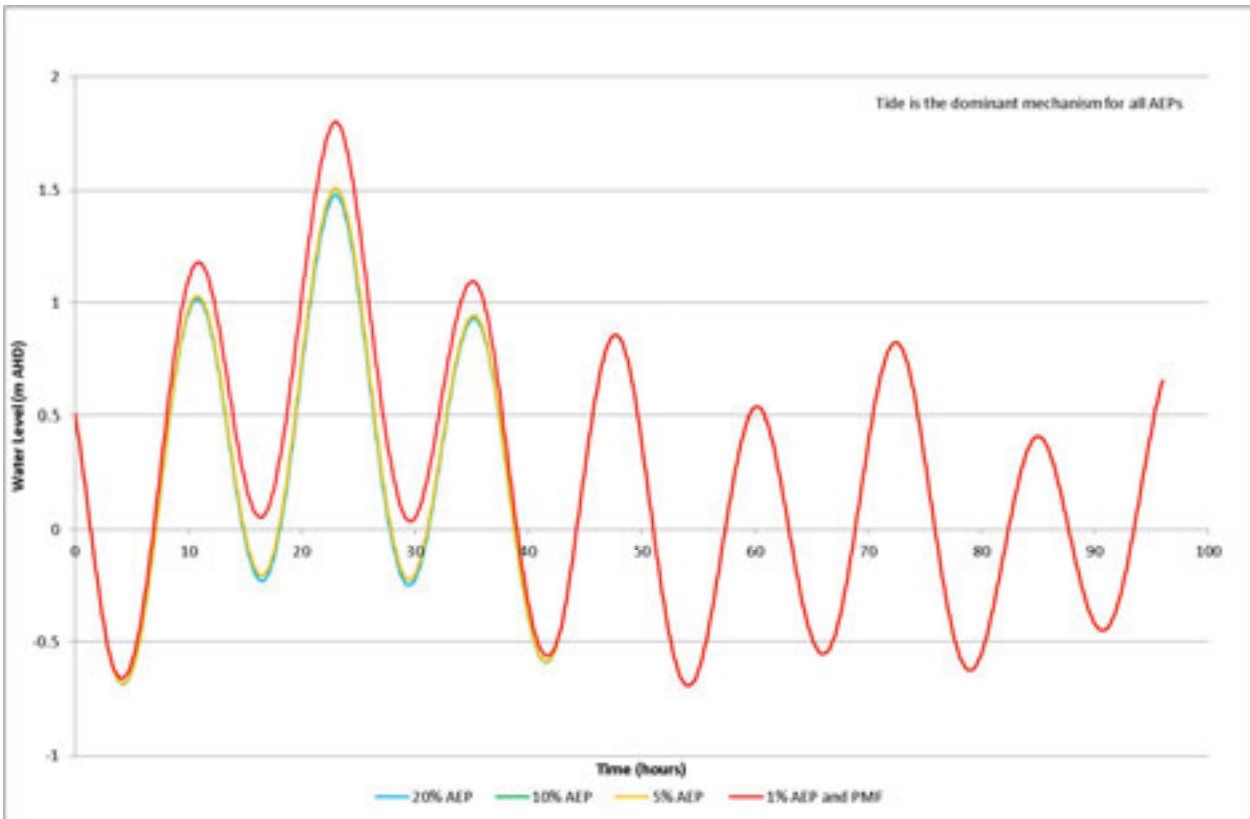


Figure E-27 Flood Level versus Time – Tilligerry Creek upstream – Current day conditions

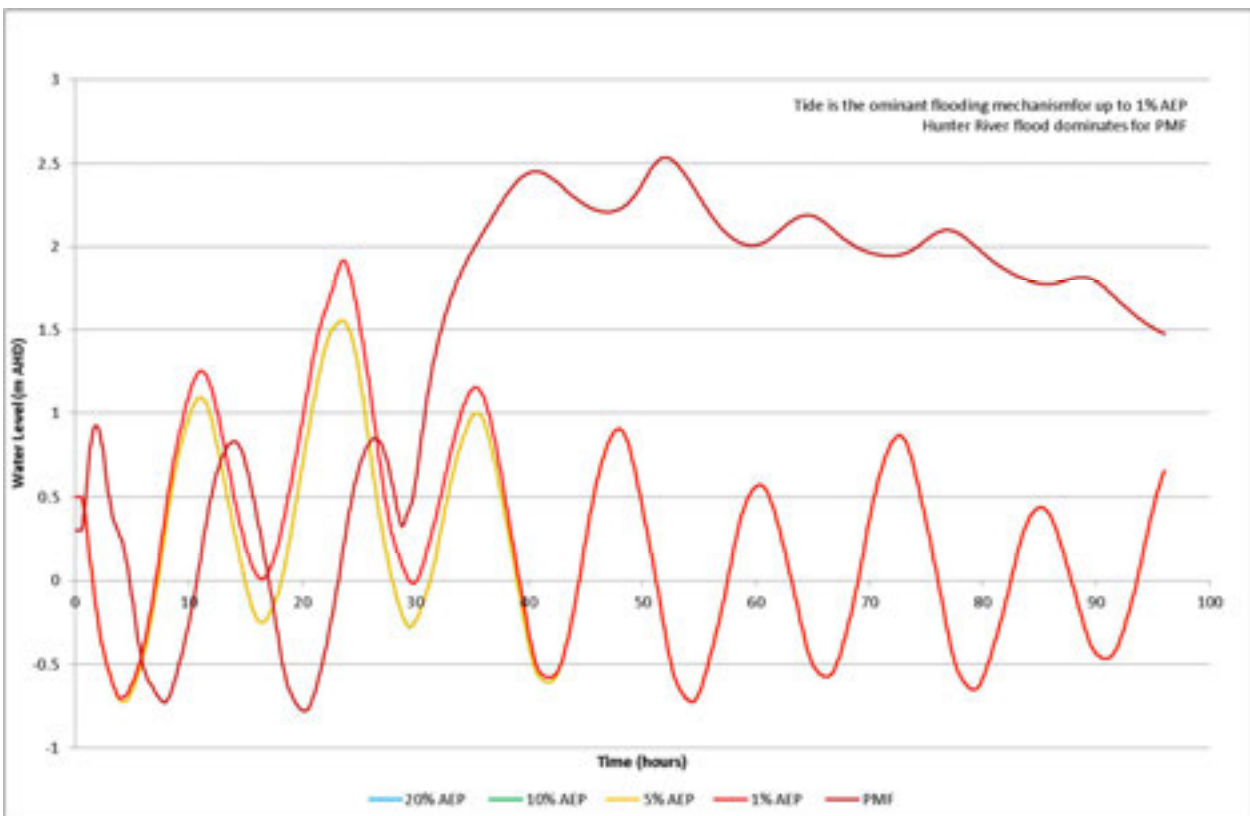


Figure E-28 Flood Level versus Time – Port Stephens Drive 820m north of Nelson Bay Road – Current day conditions

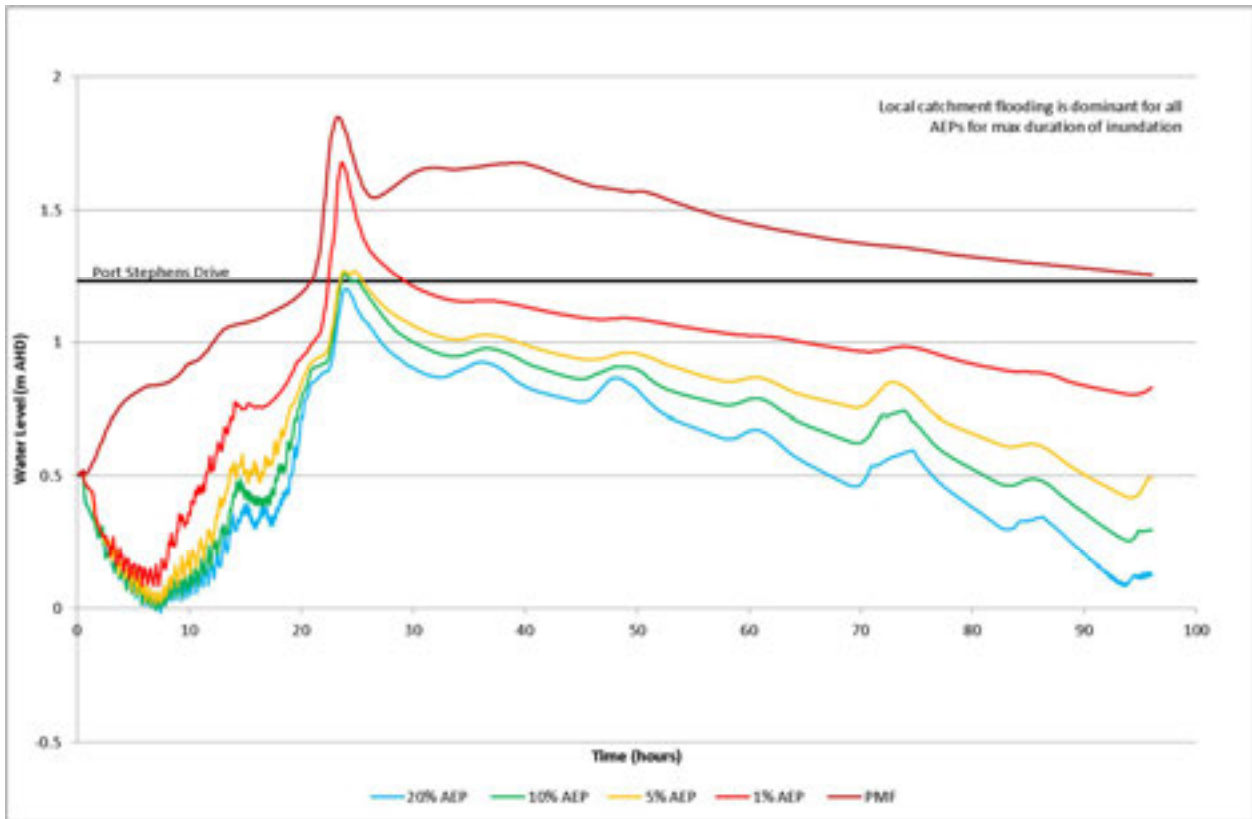


Figure E-29 Flood Level versus Time – Nelson Bay Road 850m north of Gan Gan Road south end – Current day conditions

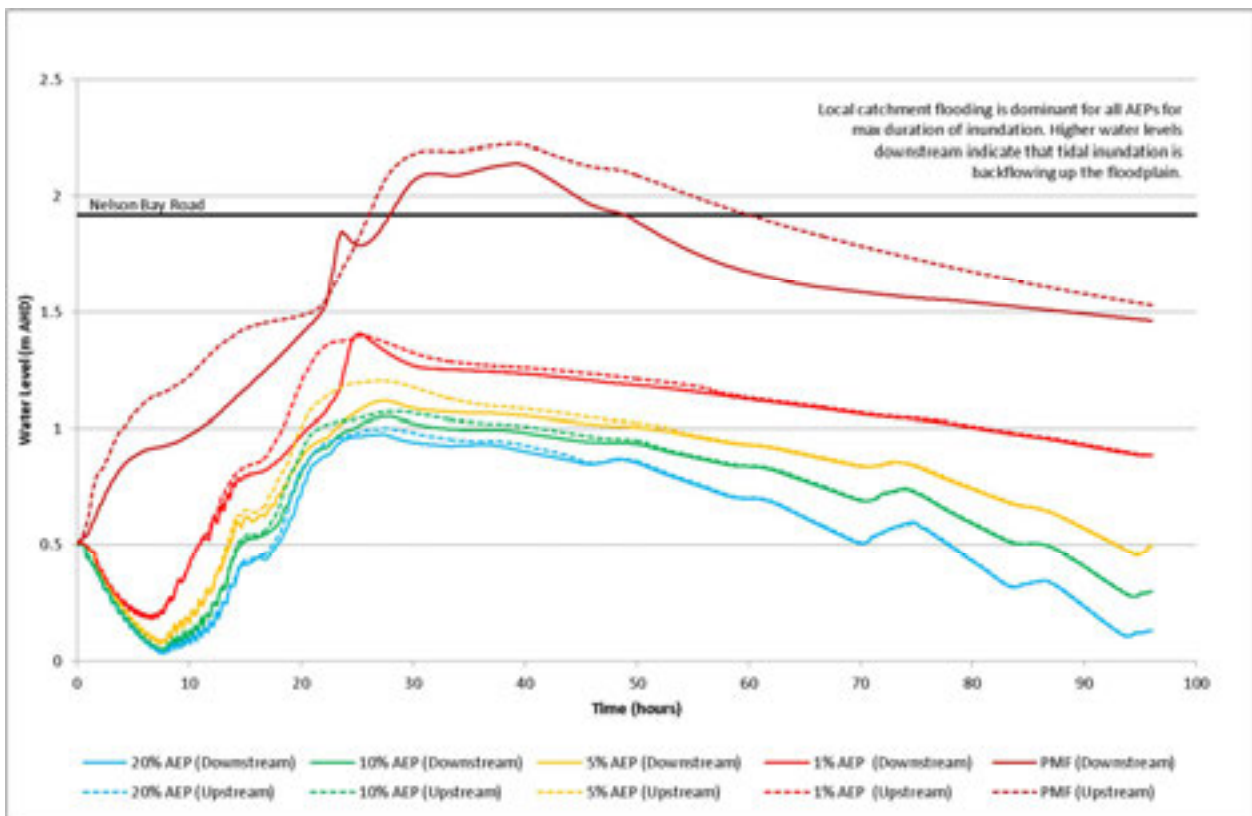


Figure E-30 Flood Level versus Time – Nelson Bay Road 270m north of Gan Gan Road south end – Current day conditions

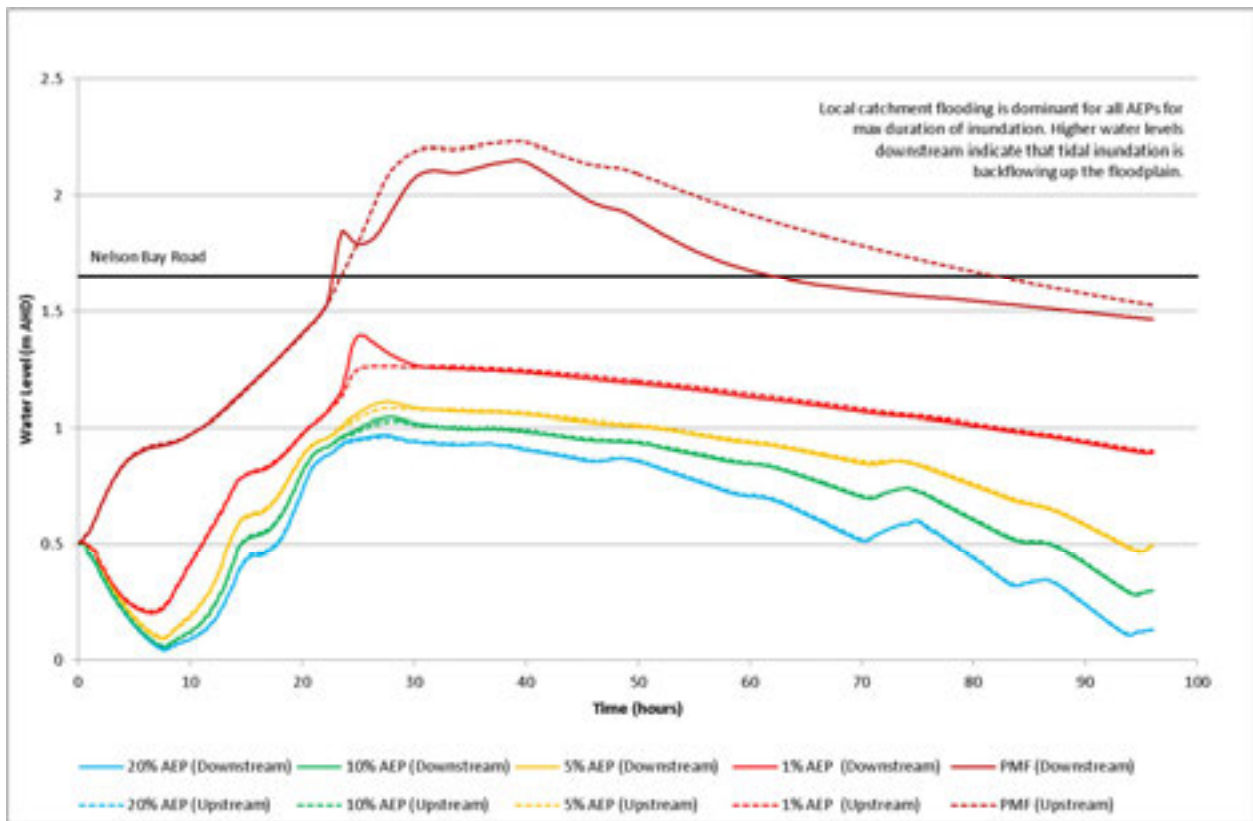


Figure E-31 Flood Level versus Time – McKinley Swamp – Current day conditions

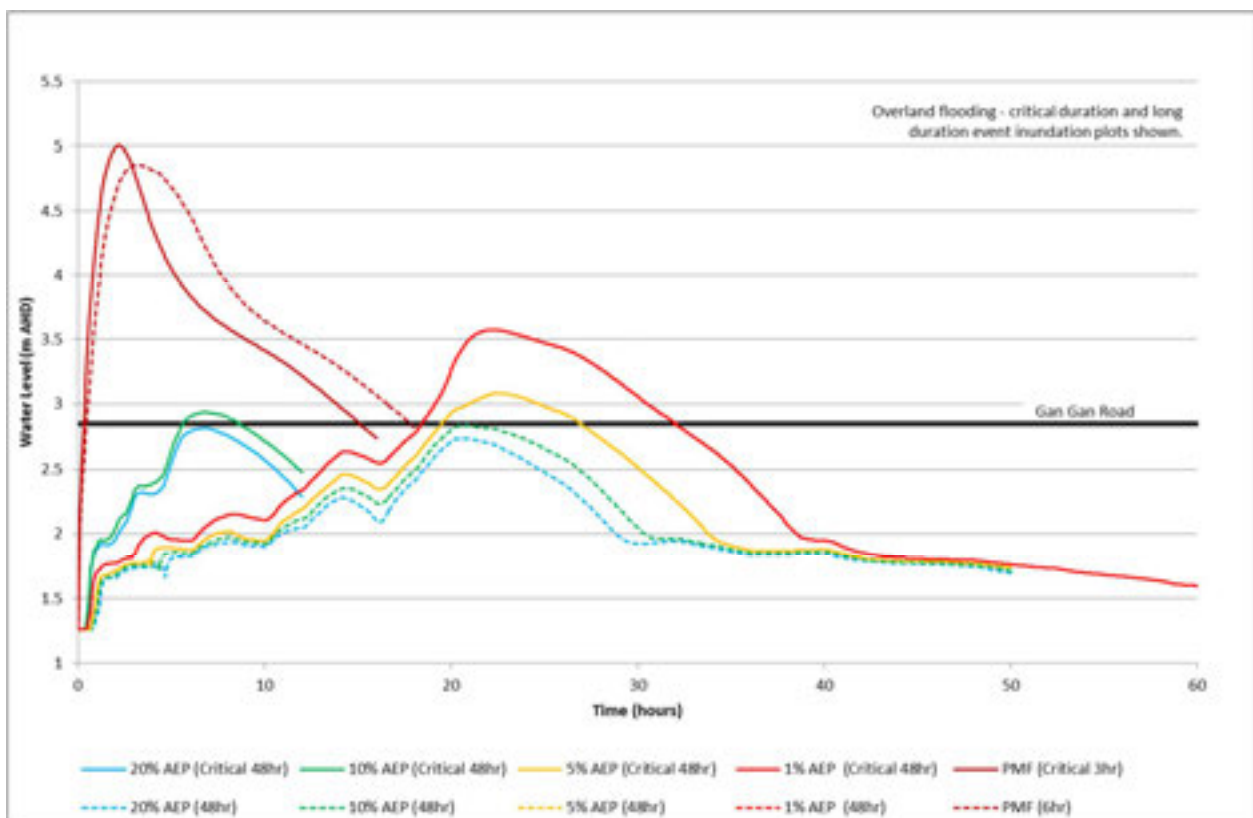


Figure E-32 Flood Level versus Time – Gan Gan Road at Morna Point Road – Current day conditions

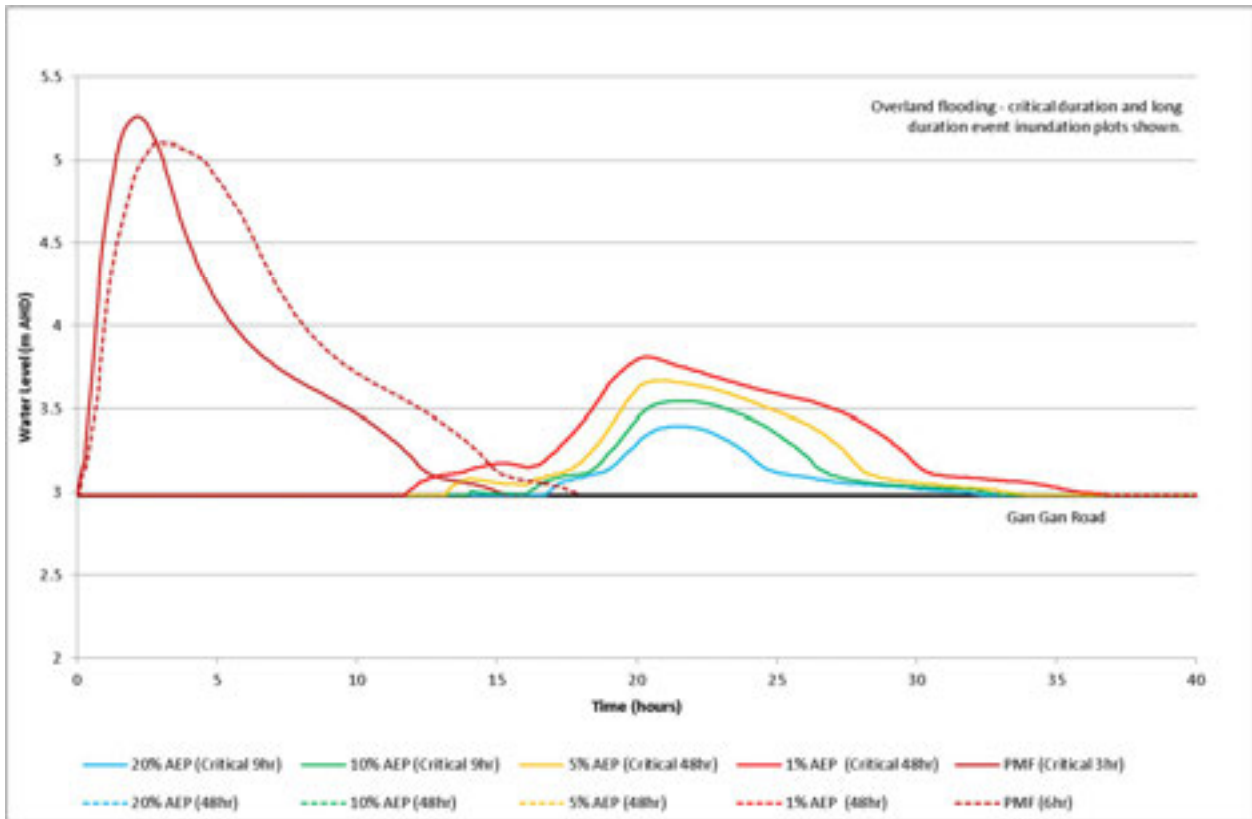


Figure E-33 Flood Level versus Time – Gan Gan Road Clark Street low point – Current day conditions

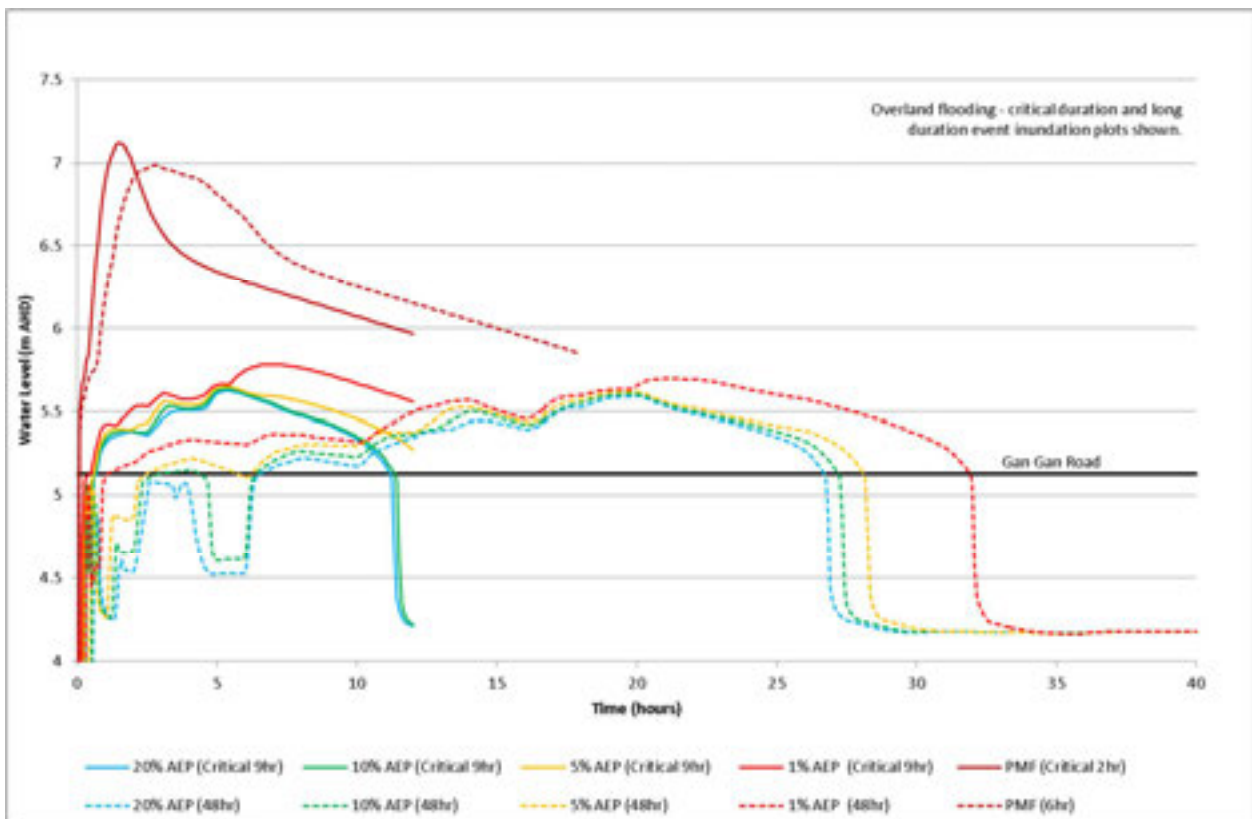


Figure E-34 Flood Level versus Time – Gan Gan Road 250m west of Blanch St – Current day conditions

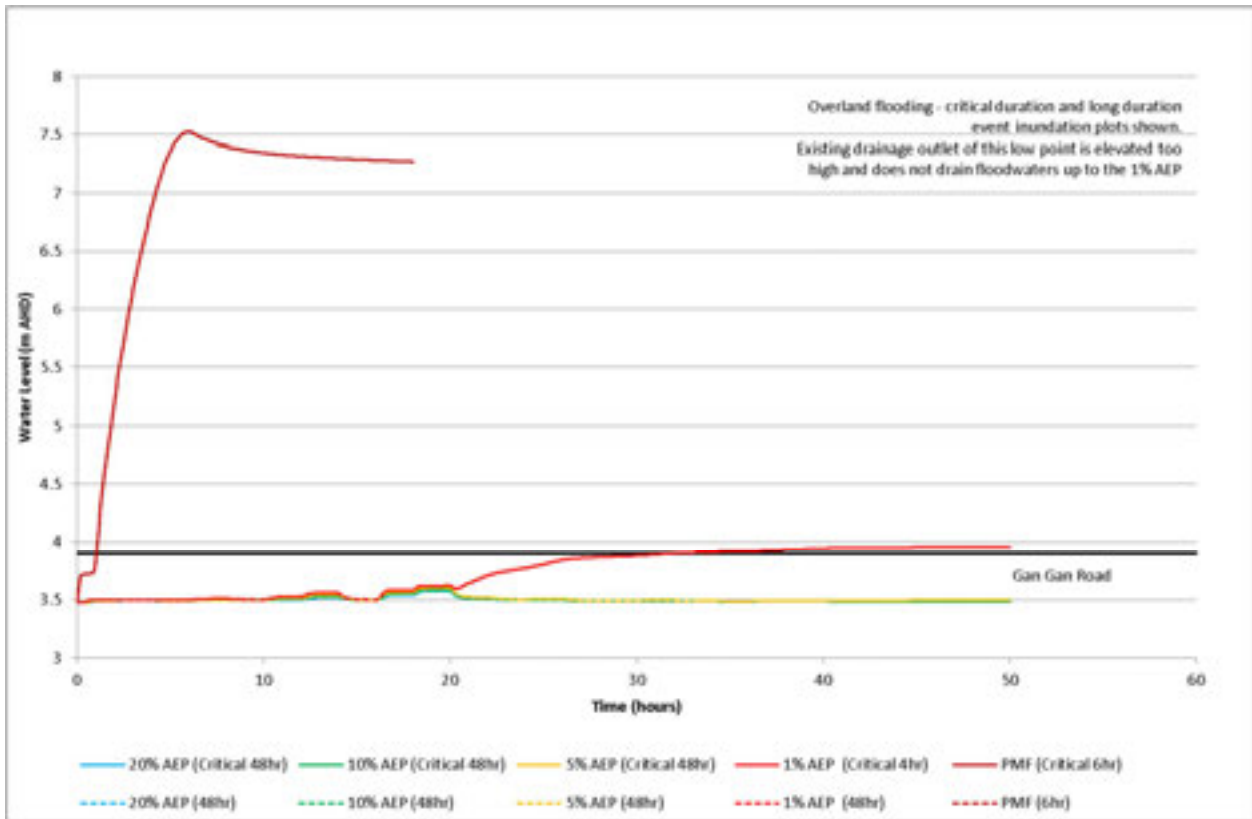


Figure E-35 Flood Level versus Time – Marsh Road 1.5km from Nelson Bay Road east end – Current day conditions

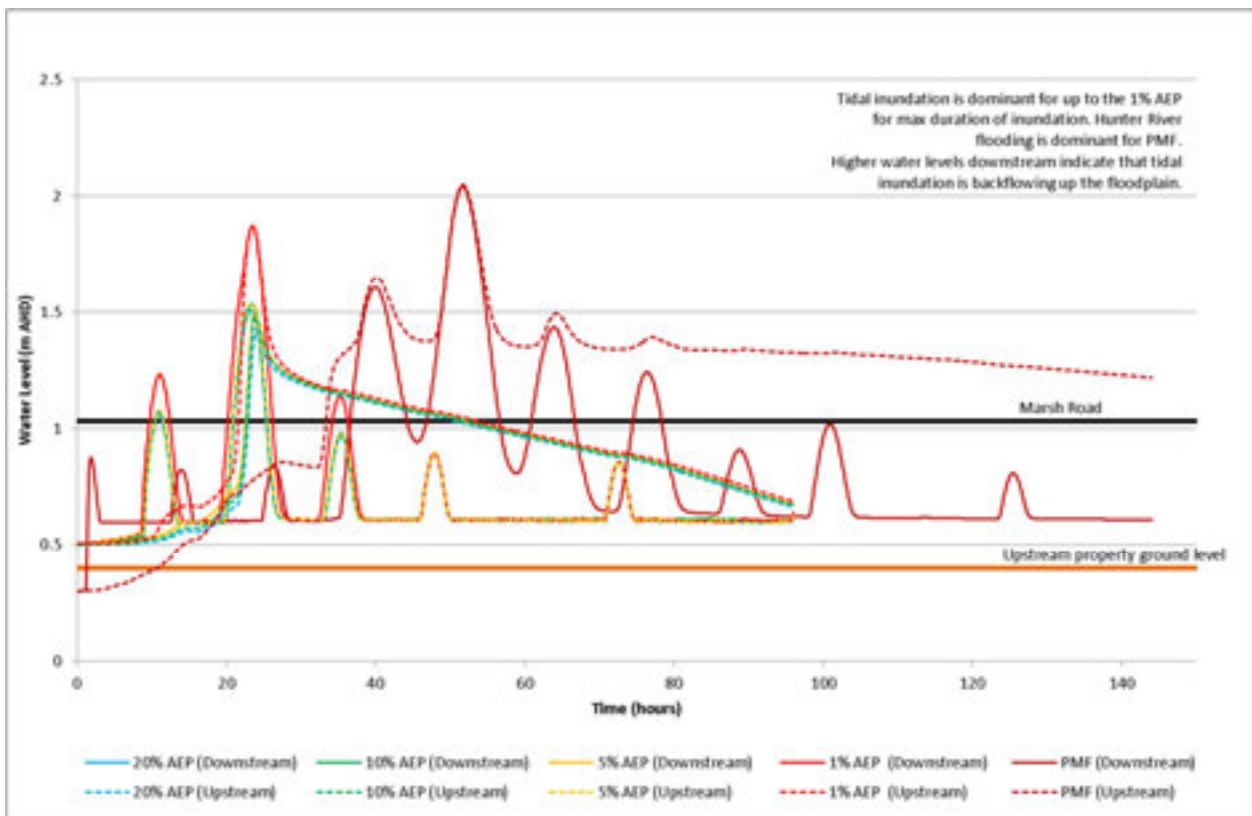


Figure E-36 Flood Level versus Time – Marsh Road 650m from Nelson Bay Road west end – Current day conditions

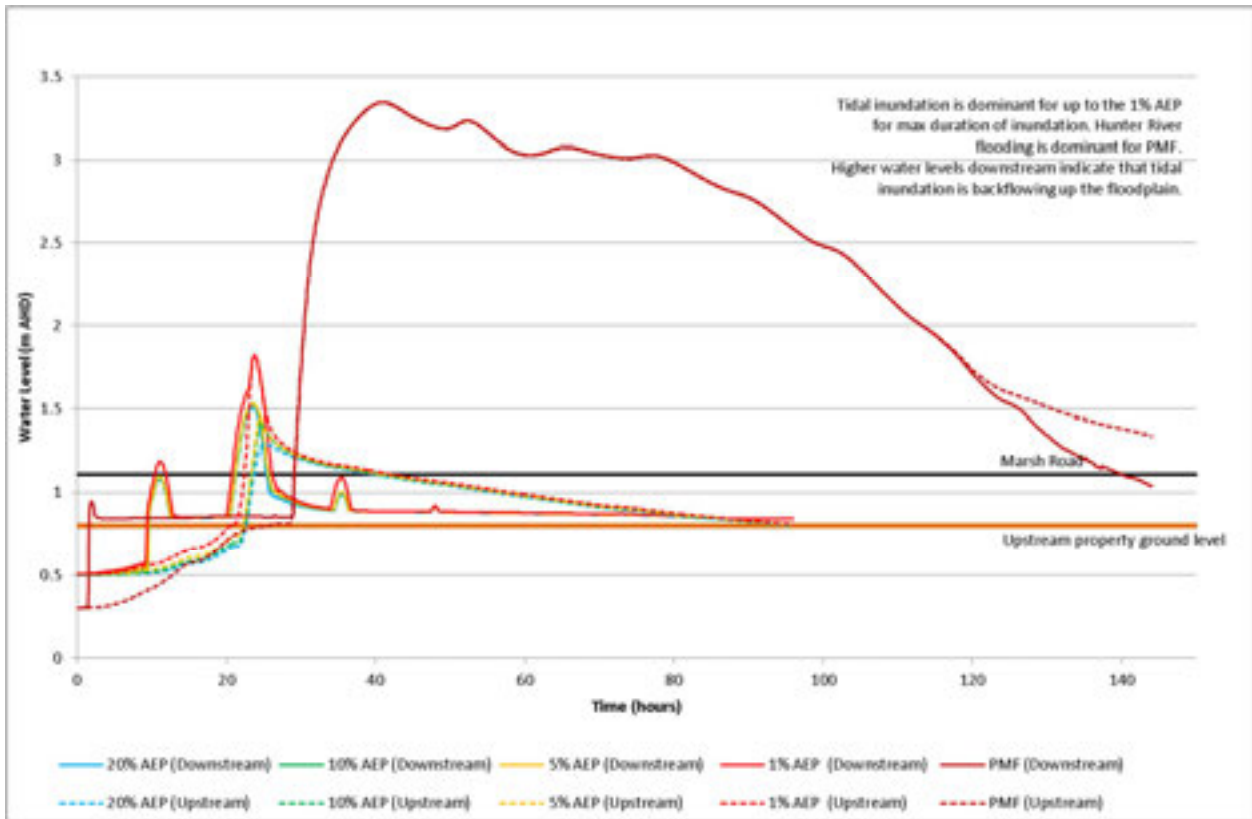


Figure E-37 Flood Level versus Time – Lemon Tree Passage Road 100m north of Michael Drive – Current day conditions

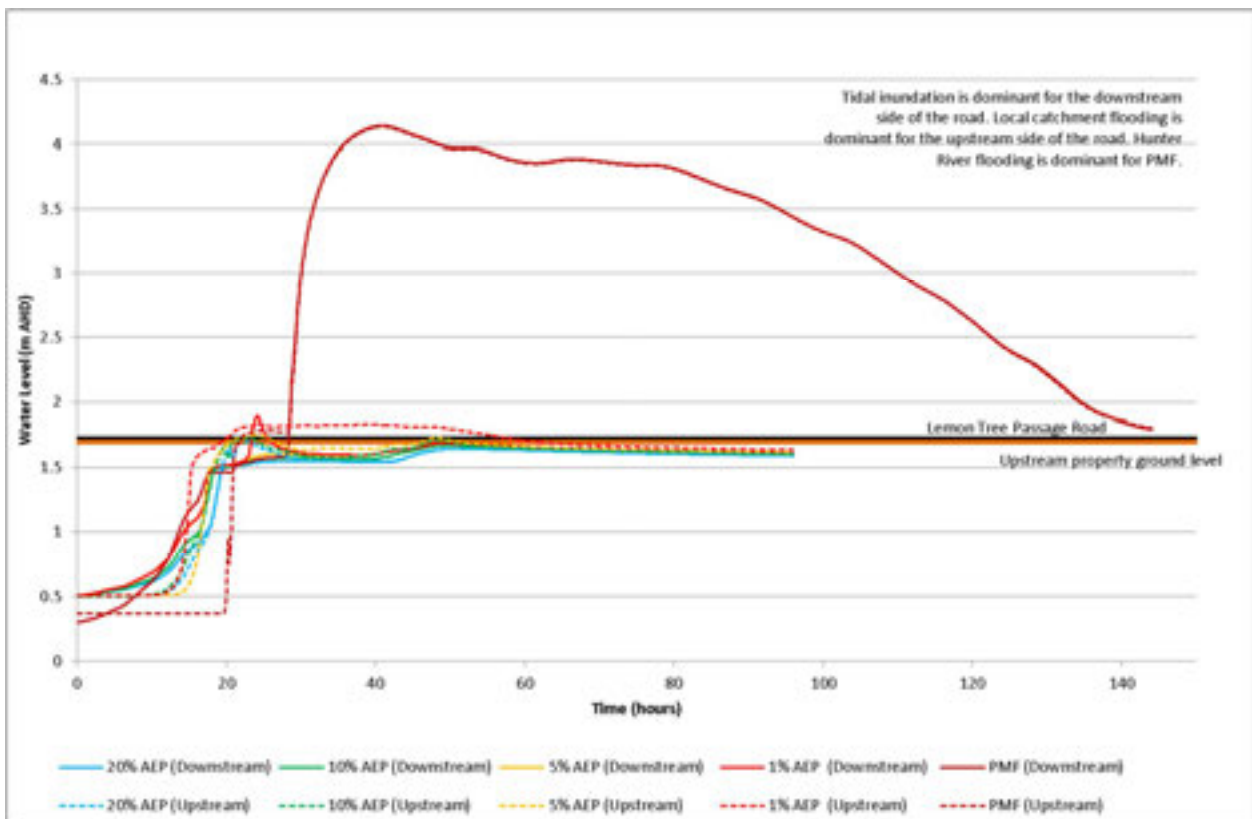


Figure E-38 Flood Level versus Time – Lemon Tree Passage Road 500m north of Rookes Road south– Current day conditions

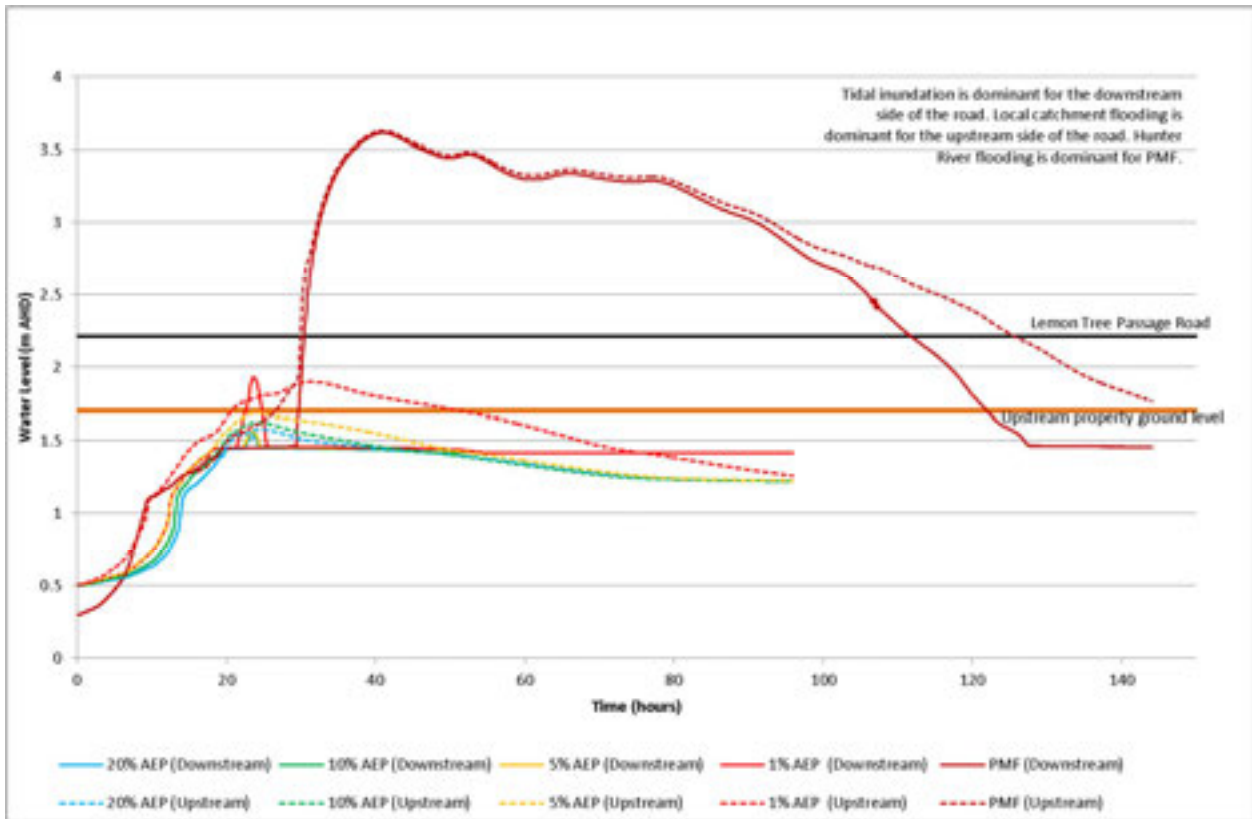


Figure E-39 Flood Level versus Time – Lemon Tree Passage Road 450m south of Rookes Road north – Current day conditions

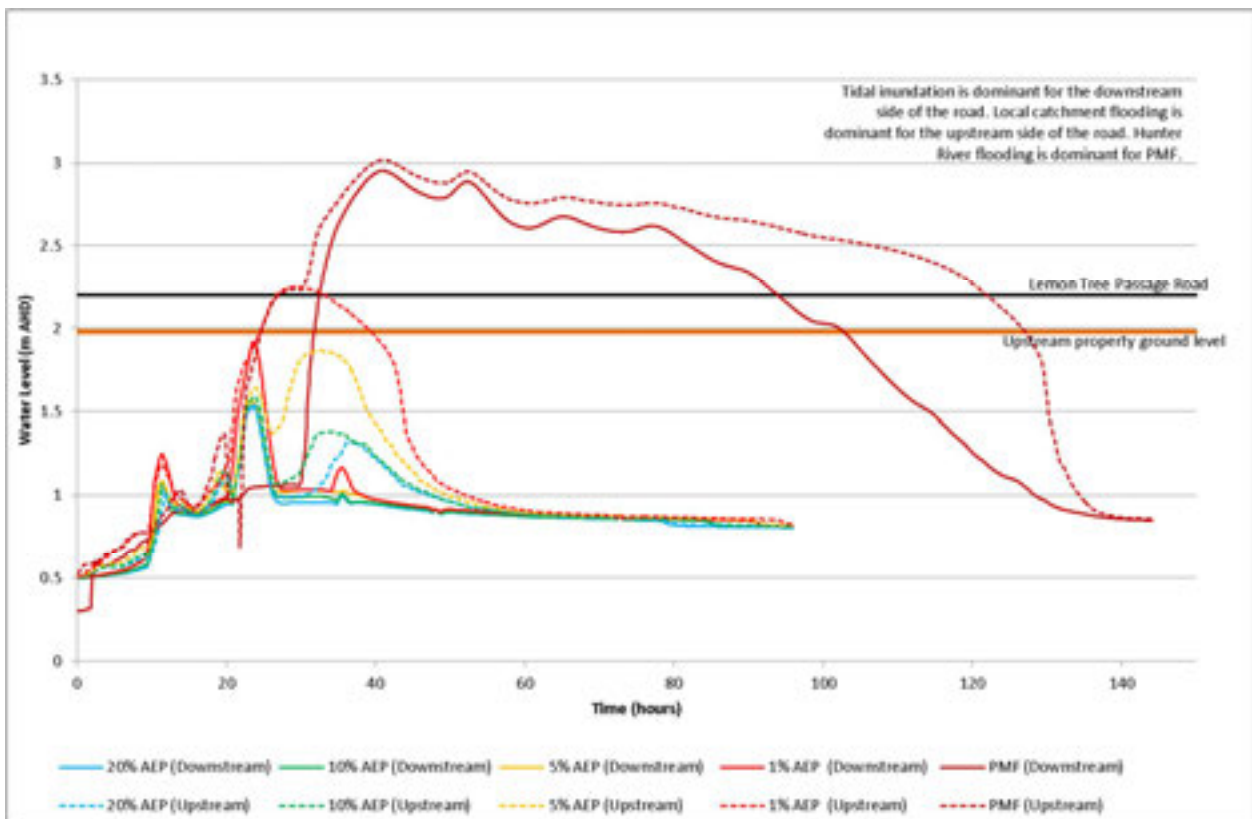


Figure E-40 Flood Level versus Time – Tilligerry Track at President Poincare Parade – Current day conditions

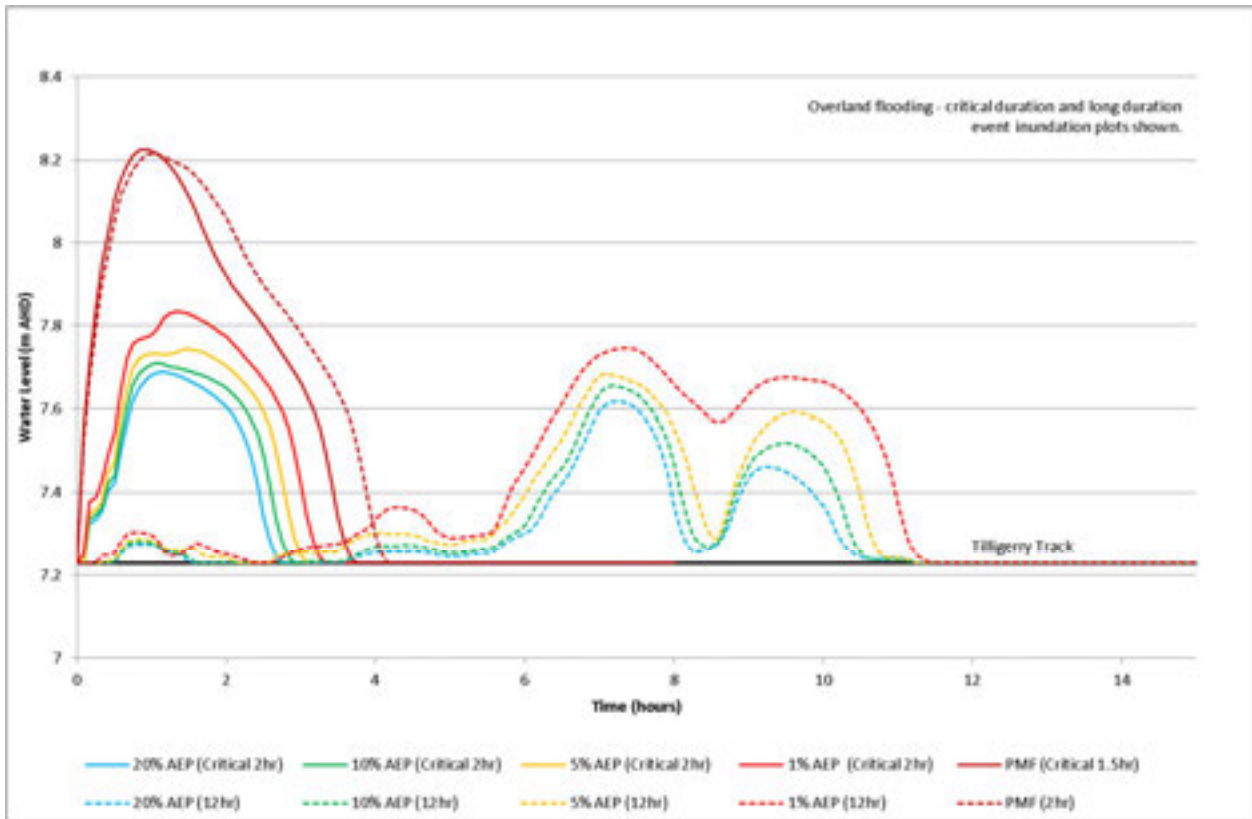


Figure E-41 Flood Level versus Time – Lloyd George Grove at President Wilson Walk – Current day conditions

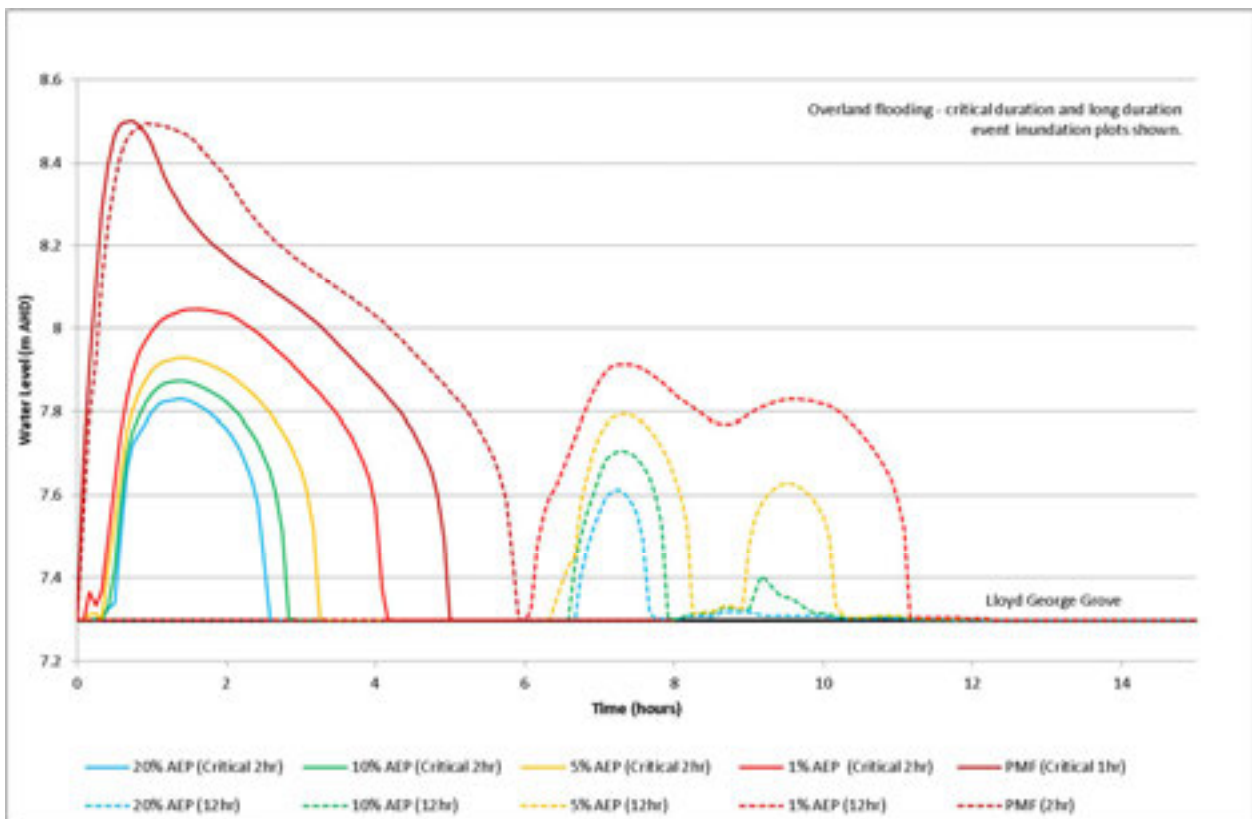


Figure E-42 Flood Level versus Time – Lemon Tree Passage Road 180m east of Oyster Farm Road – Current day conditions

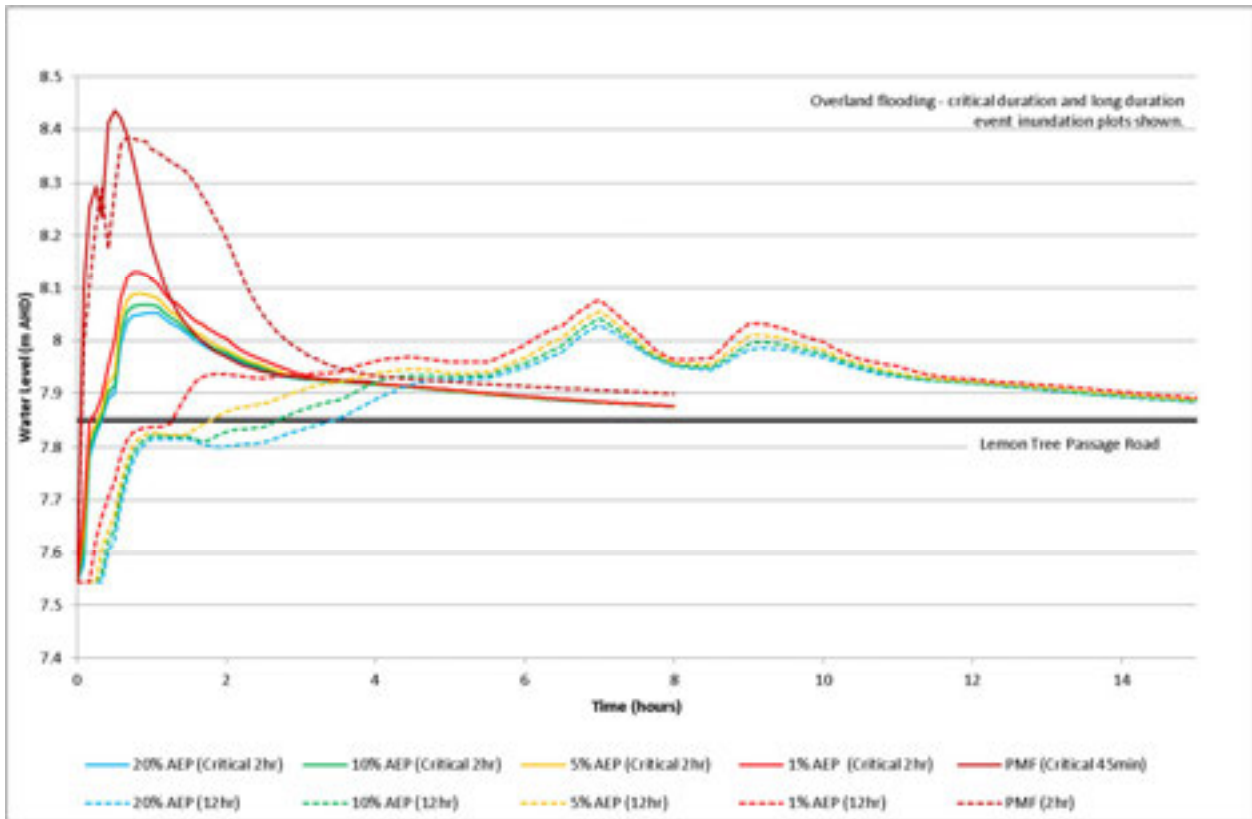


Figure E-43 Flood Level versus Time – Shearman Avenue near Mackie Street – Current day conditions

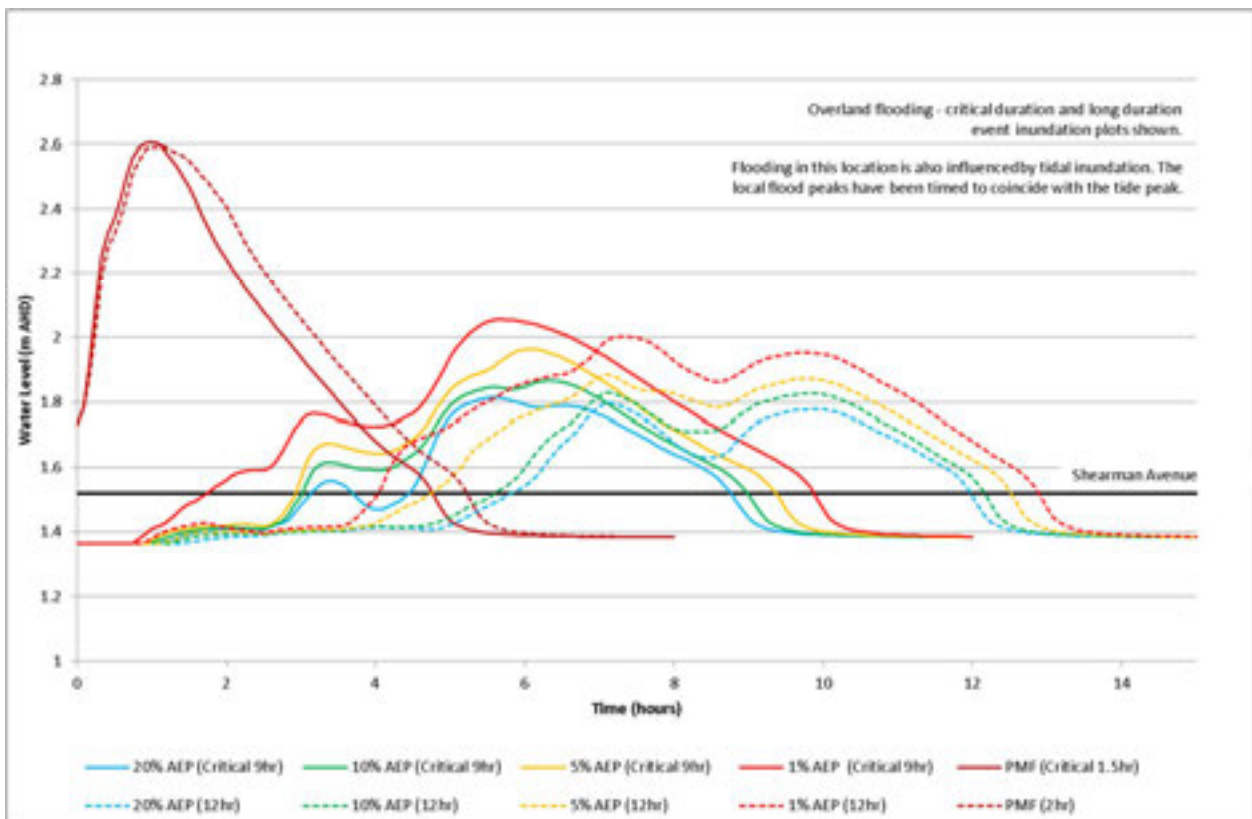


Figure E-44 Flood Level versus Time – Cook Parade 80m north of Meredith Avenue – Current day conditions

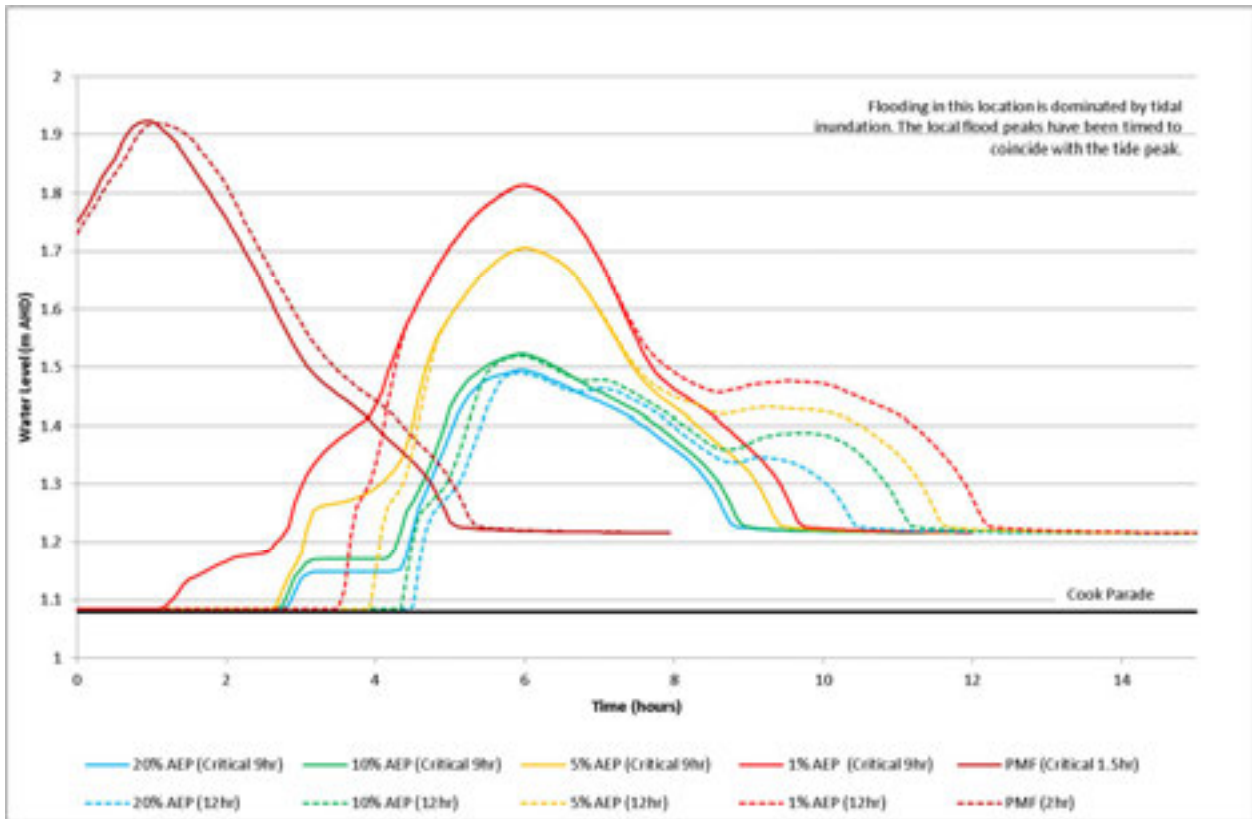


Figure E-45 Flood Level versus Time – Paroa Avenue – Current day conditions

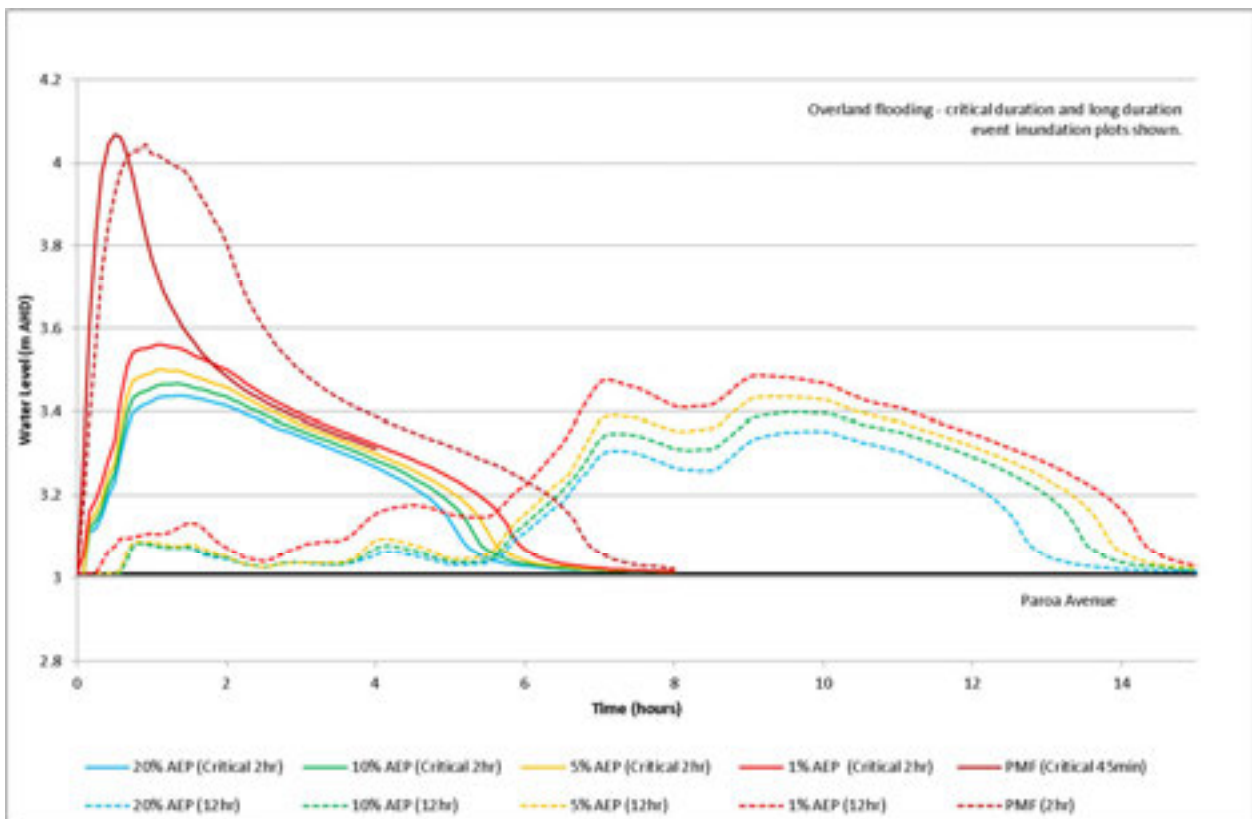


Figure E-46 Flood Level versus Time – One Mile residential - Main Drain – Current day conditions

