

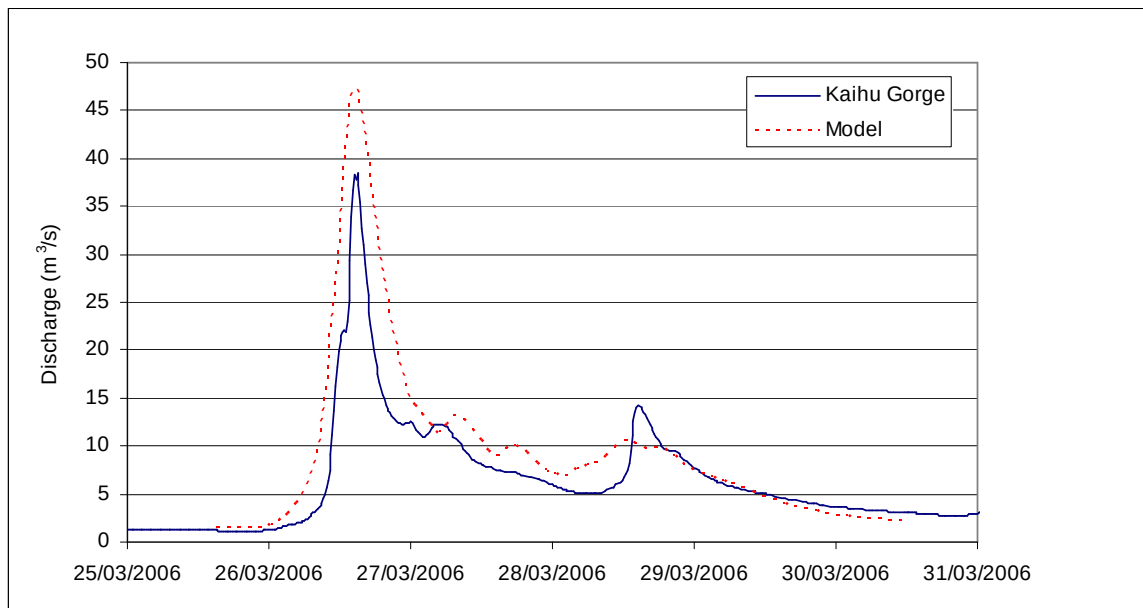


Figure 2: Upper catchment calibration, March 2006 event

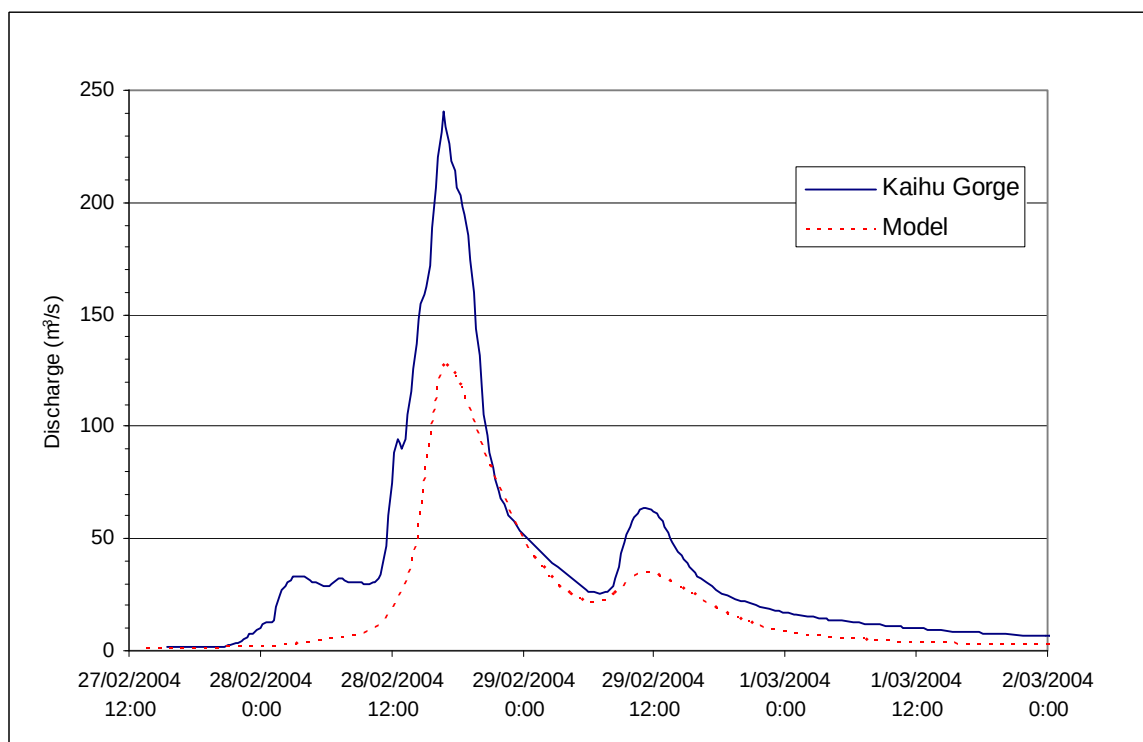


Figure 3: Upper catchment calibration, February 2004 event

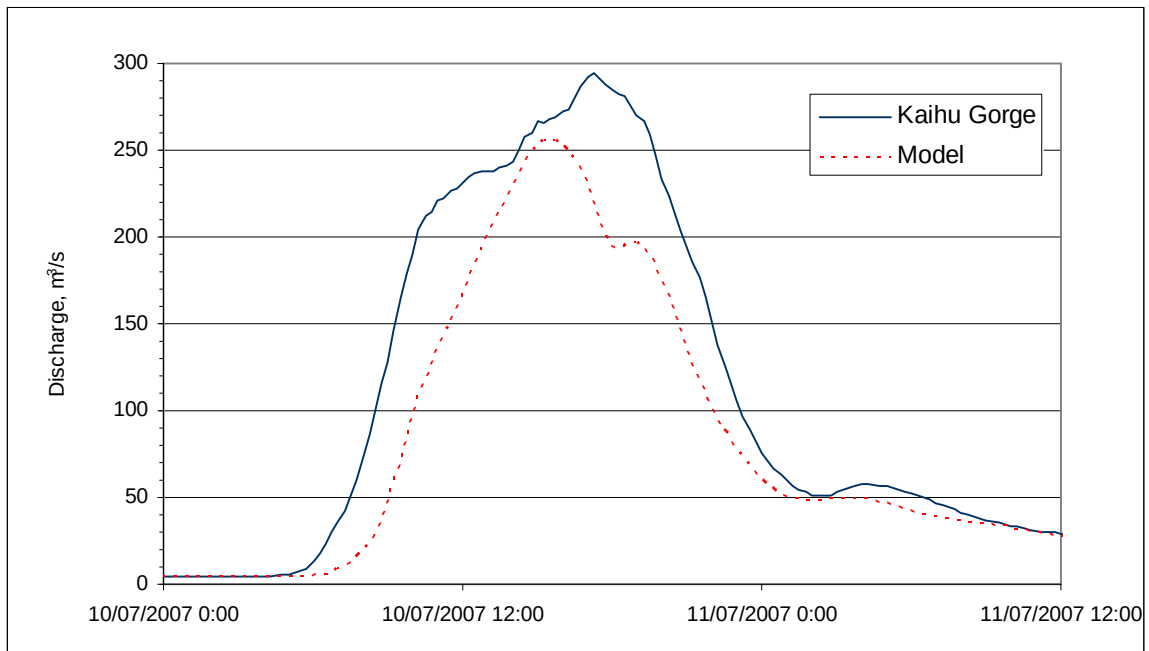


Figure 4: Upper catchment calibration, July 2007 event

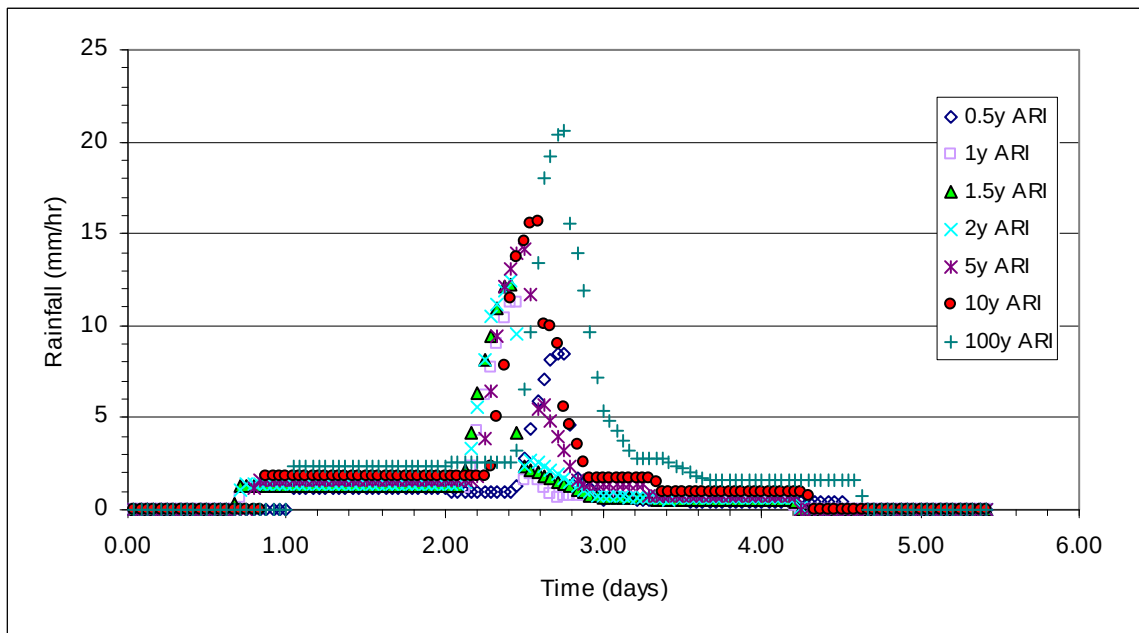


Figure 5: Design rainfalls, Tutamoe

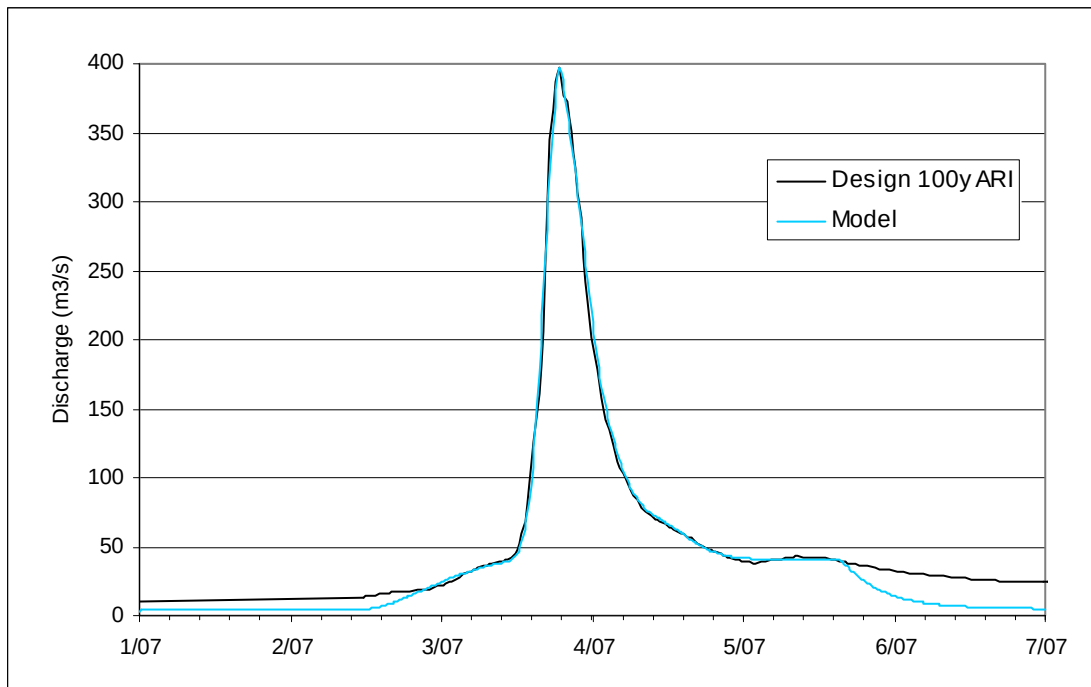


Figure 6: 100 year ARI design flood, Kaihu Gorge

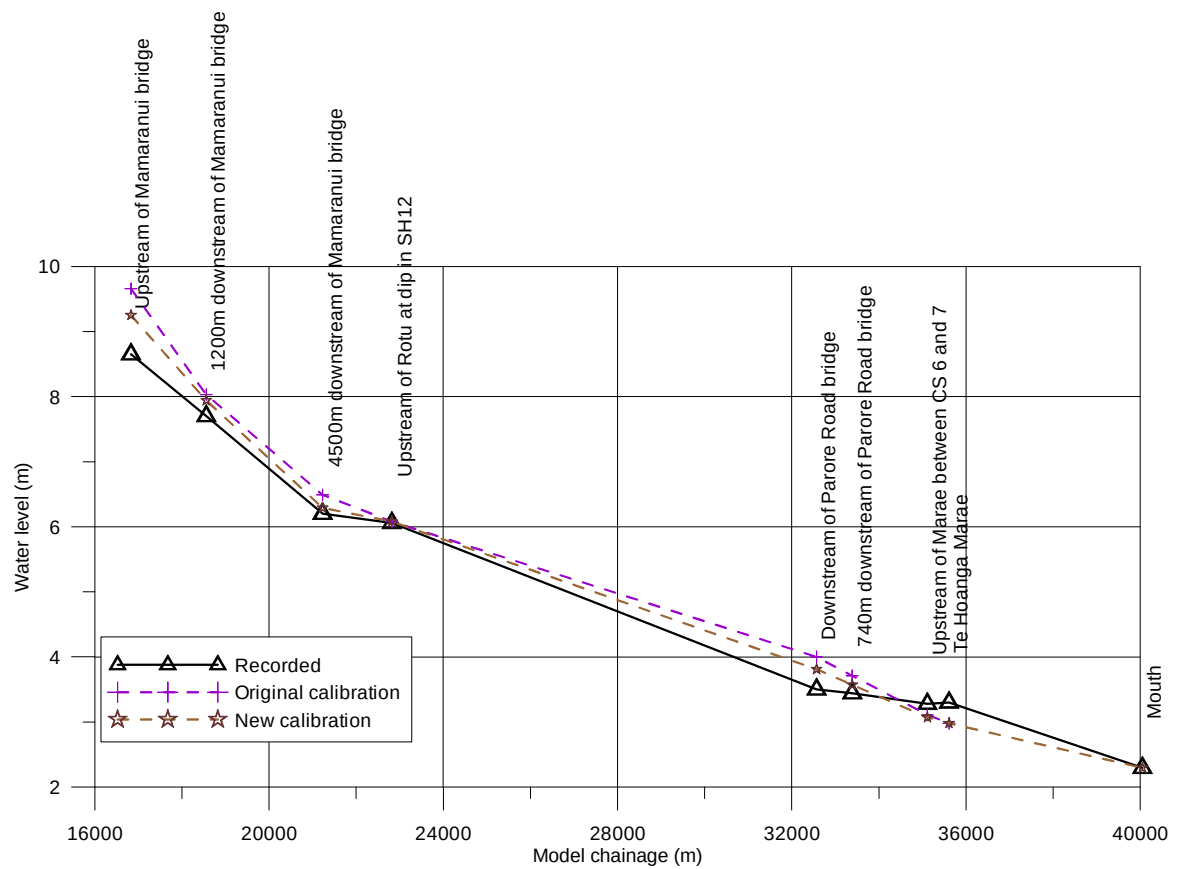


Figure 7: June 2002 peak water levels, Kaihu River



**Northland Regional Council
Kaihu Flood Management Scheme
Stage 3C**

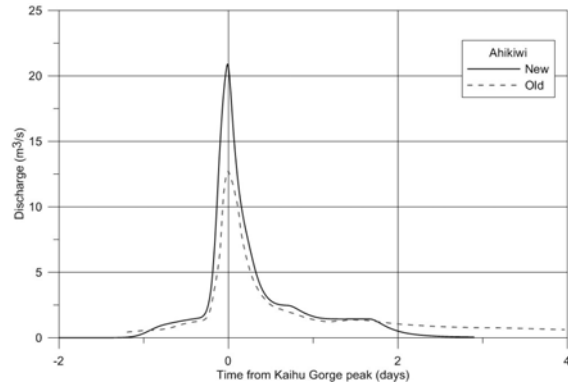


Figure 8: Ahikiwi 5 year ARI design hydrograph

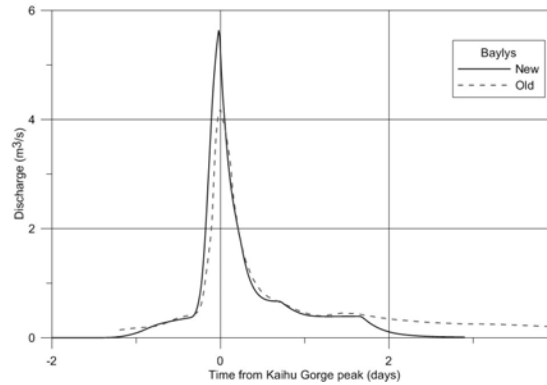


Figure 10: Baylys 5 year ARI design hydrograph

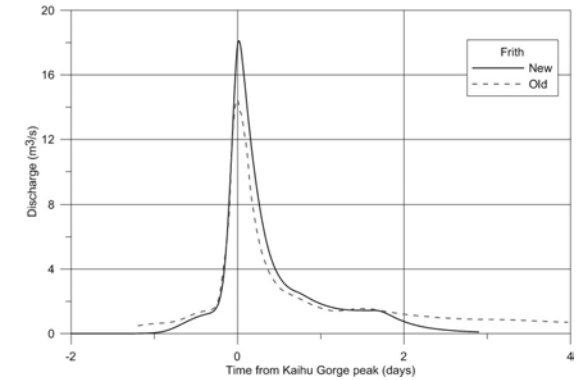


Figure 12: Frith 5 year ARI design hydrograph

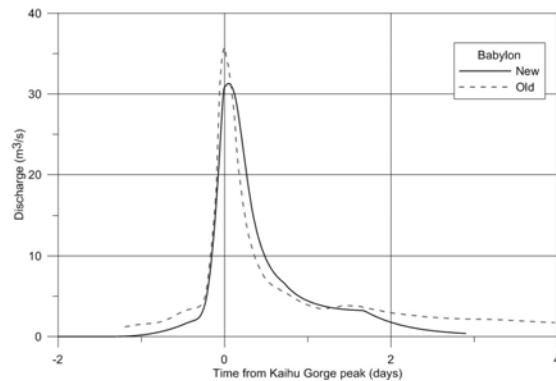


Figure 9: Babylon 5 year ARI design hydrograph

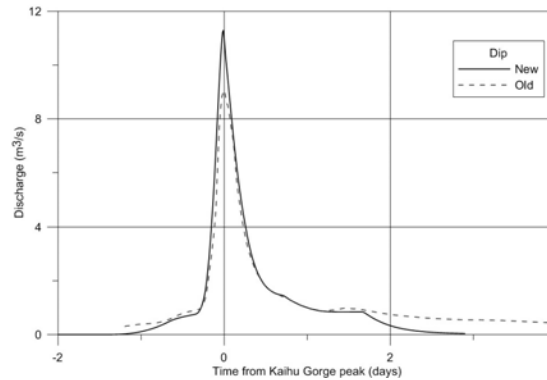


Figure 11: Dip 5 year ARI design hydrograph

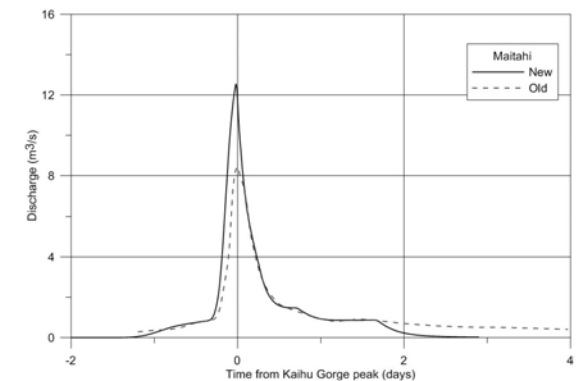


Figure 13: Maitahi 5 year ARI design hydrograph



Northland Regional Council Kaihu Flood Management Scheme Stage 3C

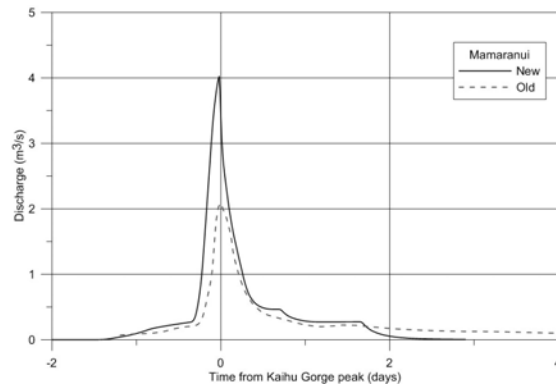


Figure 14: Mamaranui 5 year ARI design hydrograph

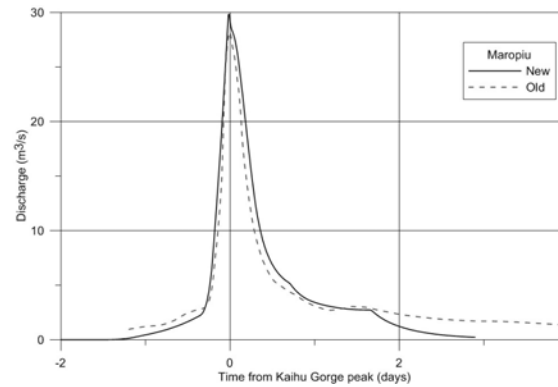


Figure 16: Maropiu 5 year ARI design hydrograph

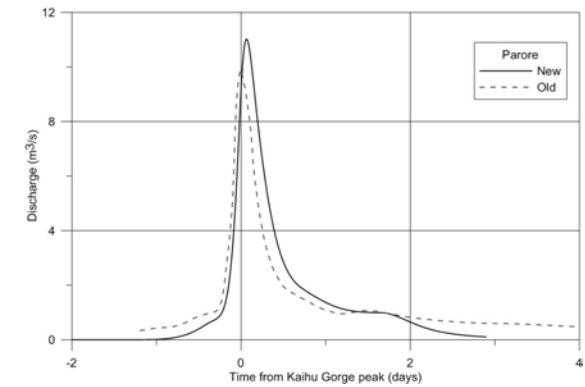


Figure 18: Parore 5 year ARI design hydrograph

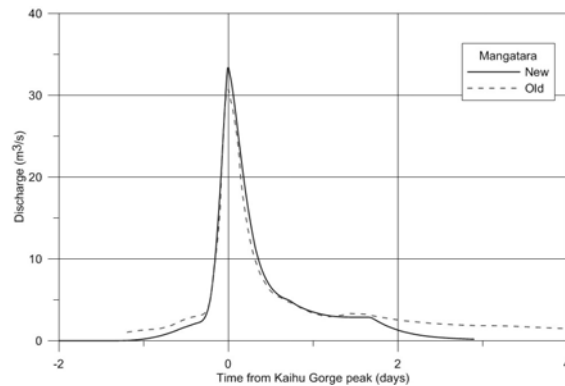


Figure 15: Mangatara 5 year ARI design hydrograph

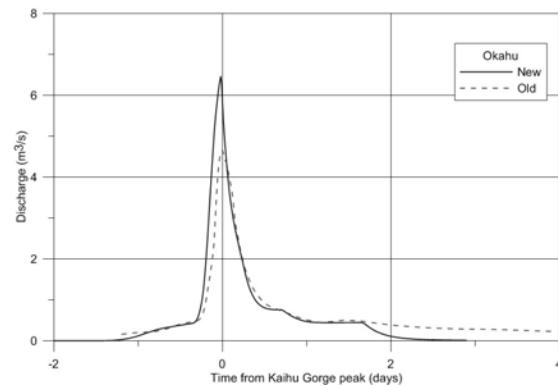


Figure 17: Okahu 5 year ARI design hydrograph

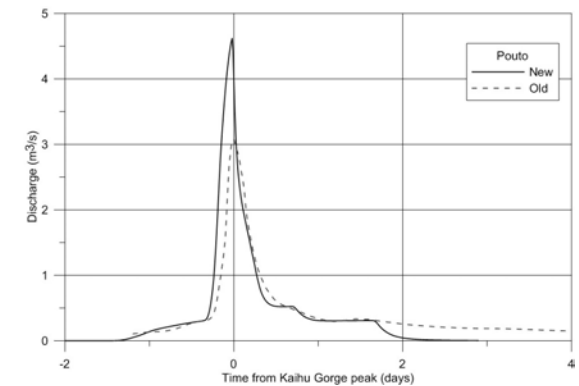


Figure 19: Pouto 5 year ARI design hydrograph



Northland Regional Council Kaihu Flood Management Scheme Stage 3C

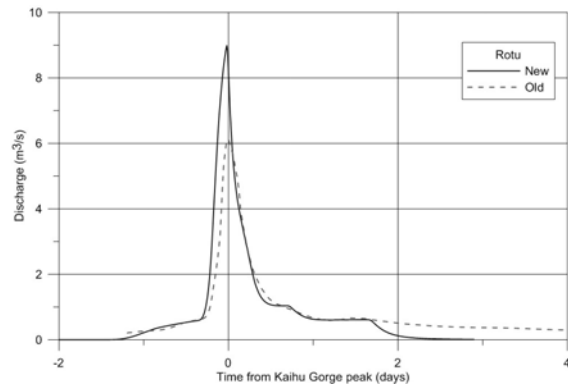


Figure 20: Rotu 5 year ARI design hydrograph

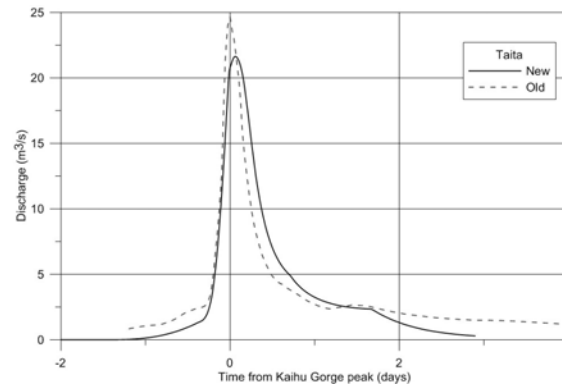


Figure 22: Taita 5 year ARI design hydrograph

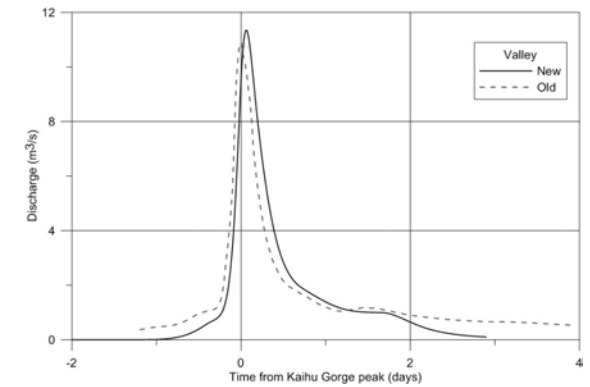


Figure 24: Valley 5 year ARI design hydrograph

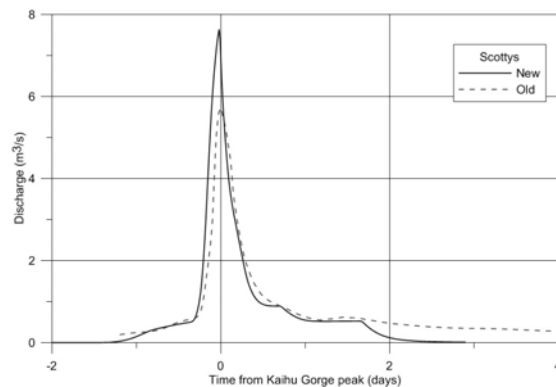


Figure 21: Scottys 5 year ARI design hydrograph

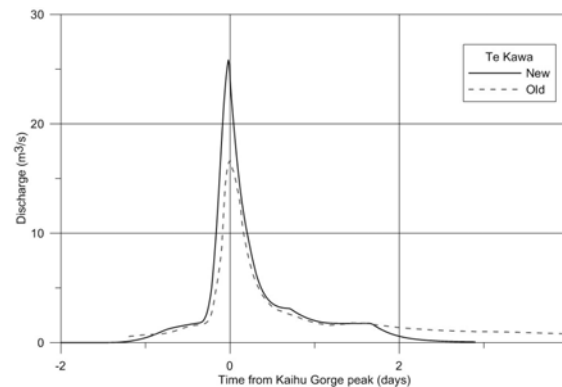


Figure 23: Te Kawa 5 year ARI design hydrograph

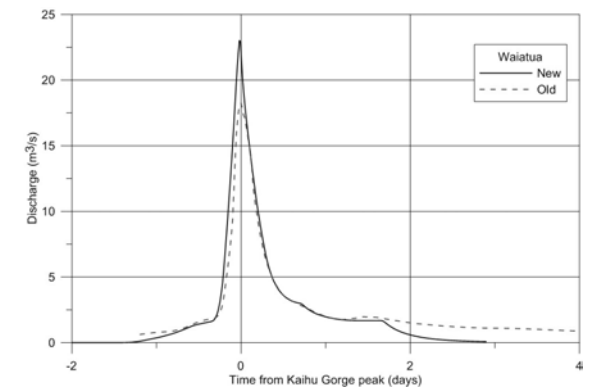


Figure 25: Waiatua 5 year ARI design hydrograph

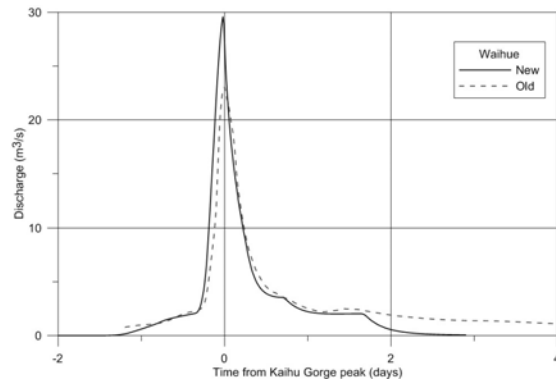


Figure 26: Waihue 5 year ARI design hydrograph

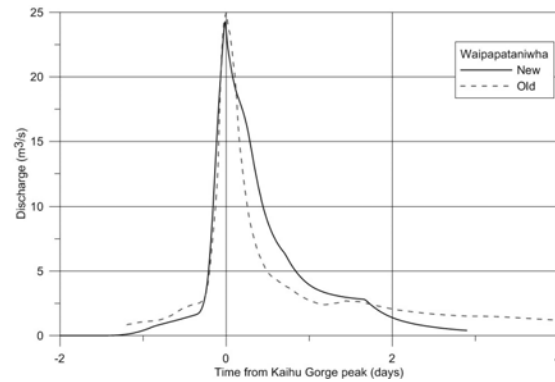


Figure 28: Waipapataniwha 5 year ARI design hydrograph

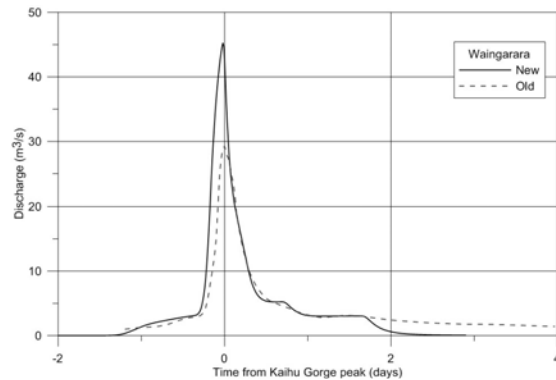


Figure 27: Waingarara 5 year ARI design hydrograph

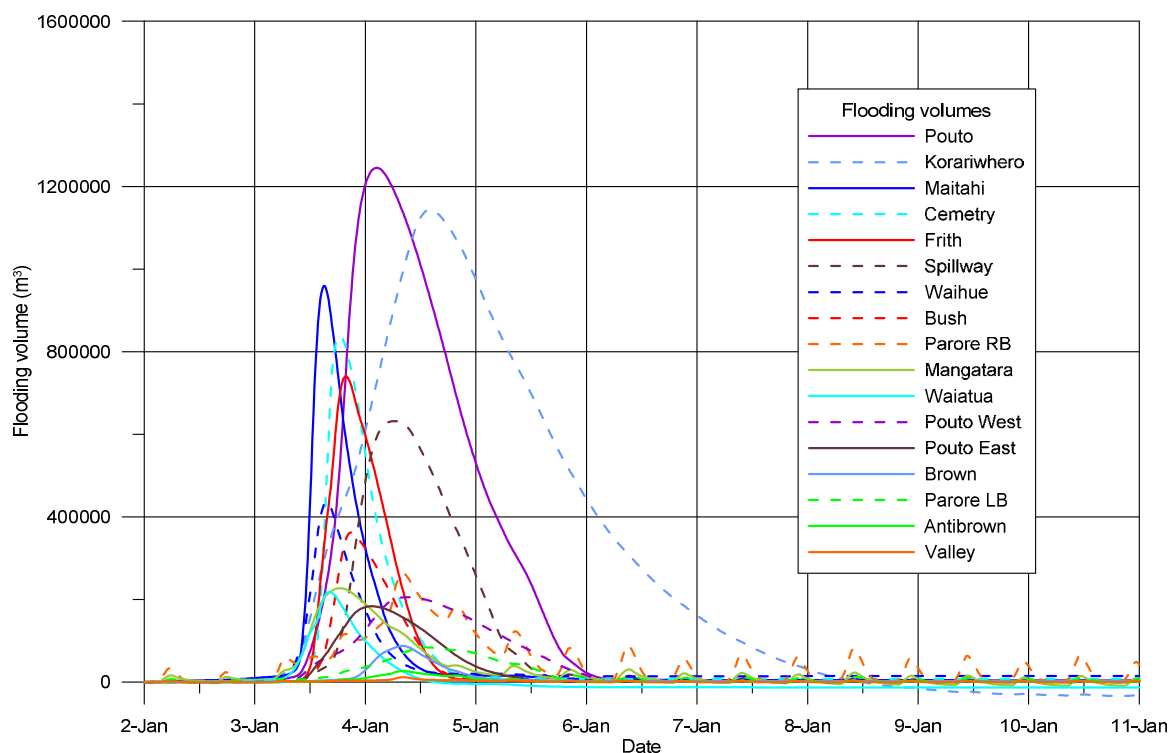


Figure 29: Flooding volumes during the 1 year ARI design flood event under benchmark conditions with existing rail embankment

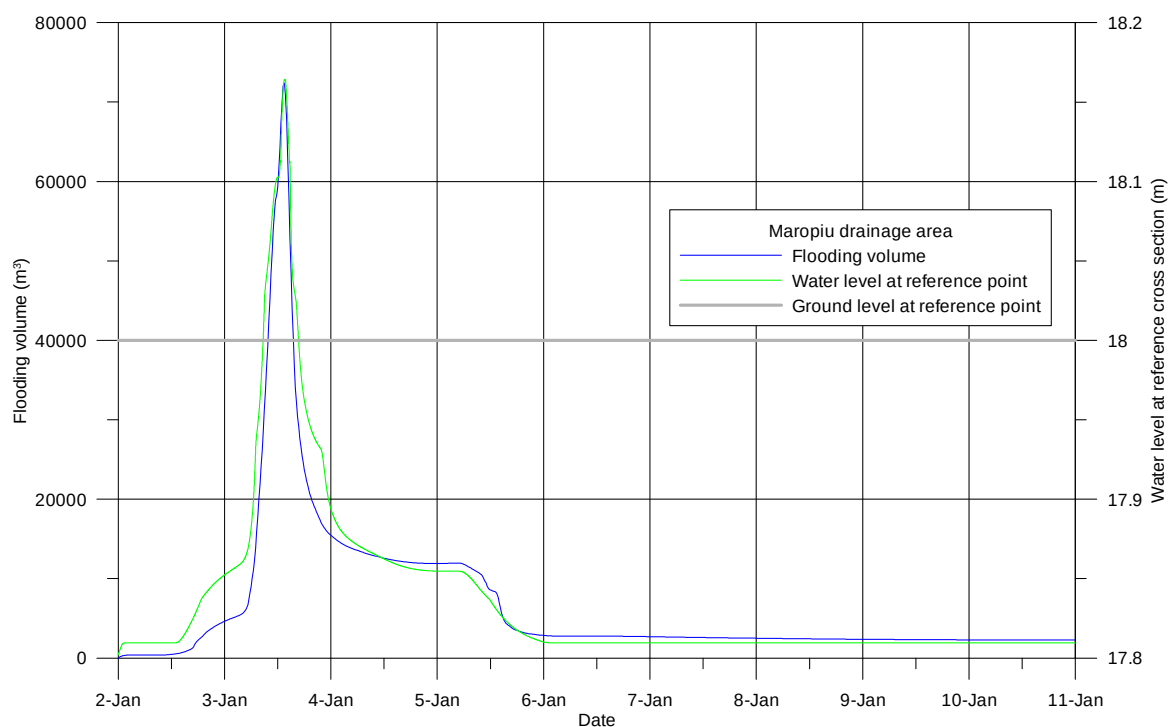


Figure 30: Flooding volume and duration in Maropiu drainage area in the 1 year ARI design flood



Northland Regional Council
Kaihu Flood Management Scheme
Stage 3C

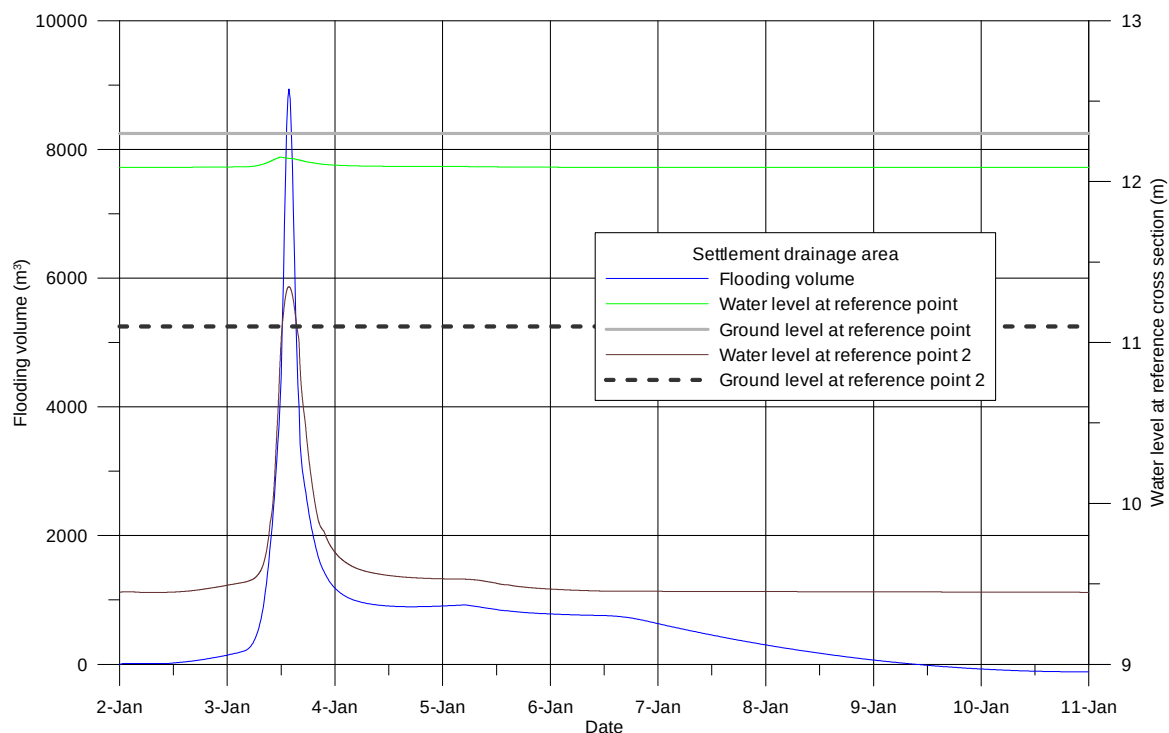


Figure 31: Flooding volume and duration in Settlement drainage area in the 1 year ARI design flood

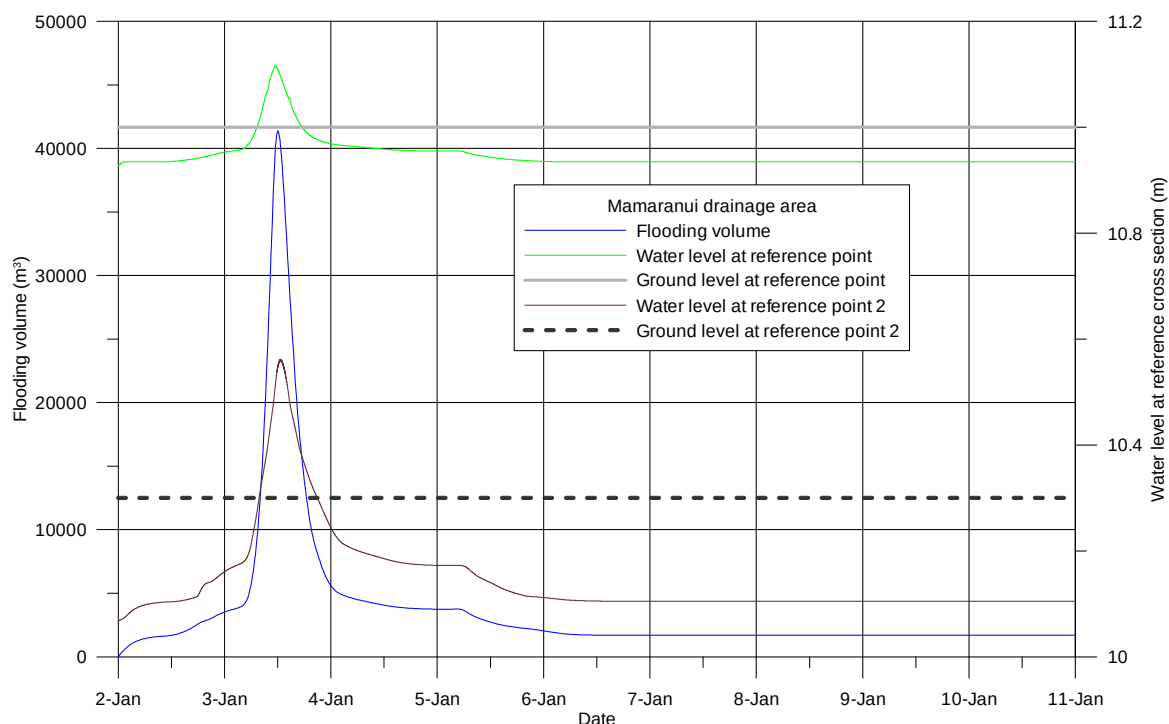


Figure 32: Flooding volume and duration in Mamaranui drainage area in the 1 year ARI design flood



Northland Regional Council
Kaihu Flood Management Scheme
Stage 3C

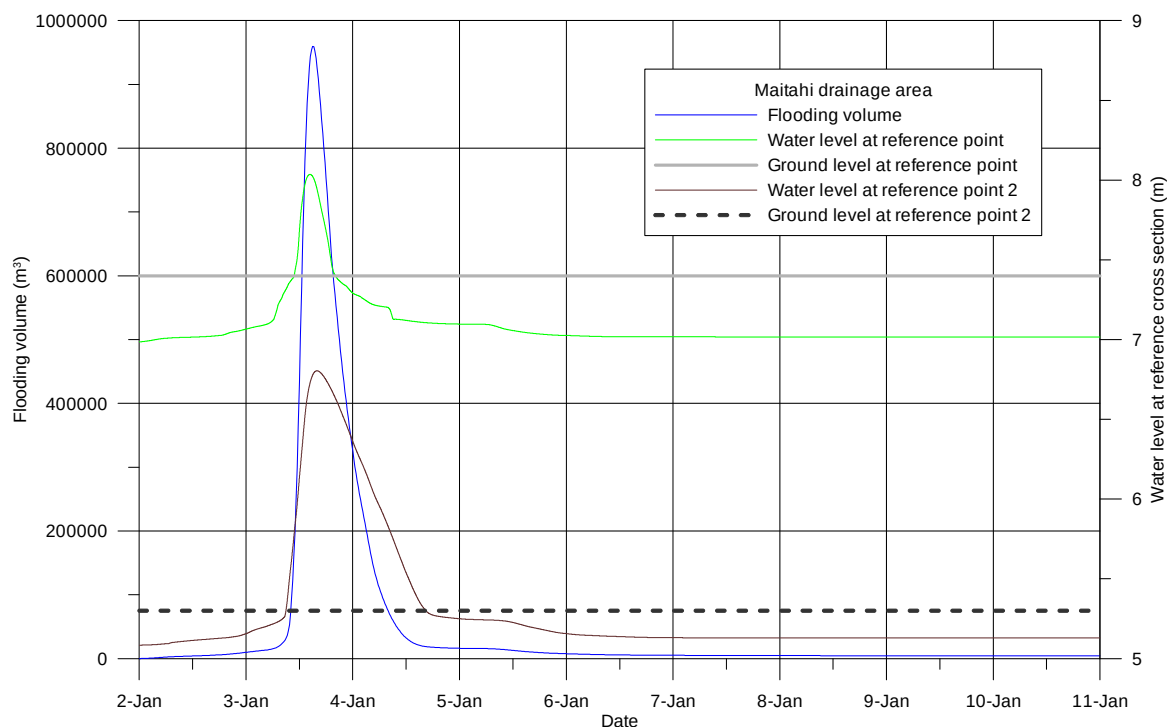


Figure 33: Flooding volume and duration in Maitahi drainage area in the 1 year ARI design flood

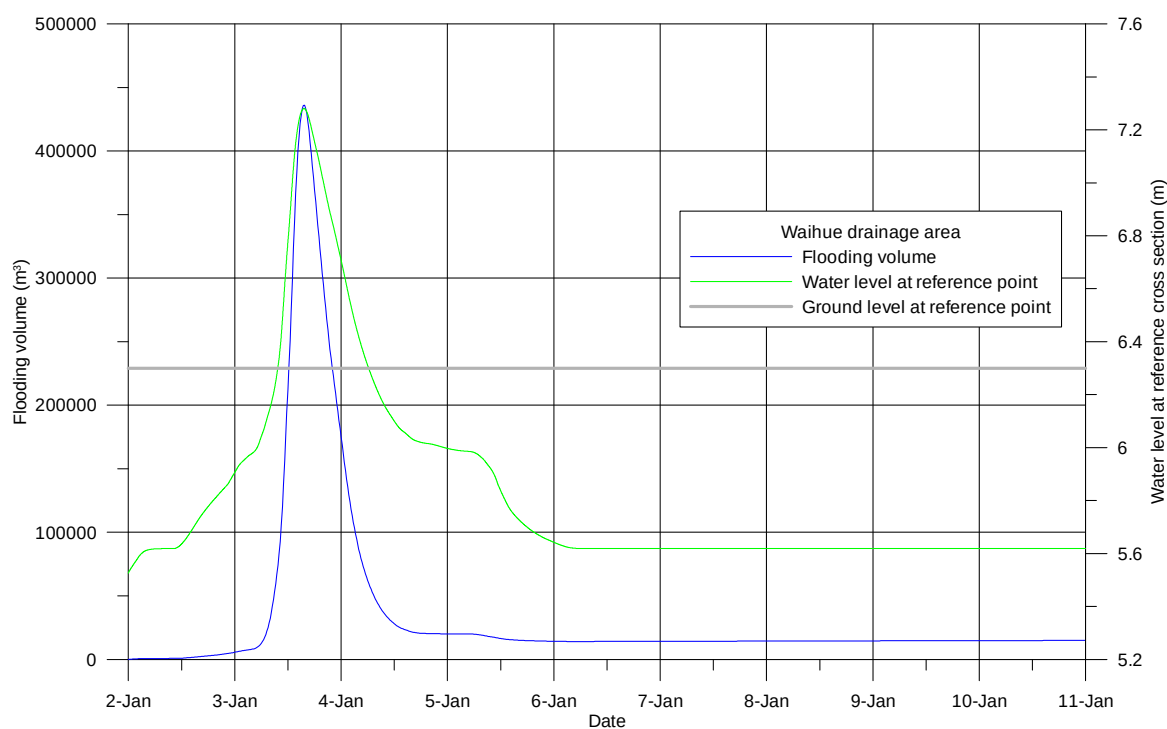


Figure 34: Flooding volume and duration in Waihue drainage area in the 1 year ARI design flood

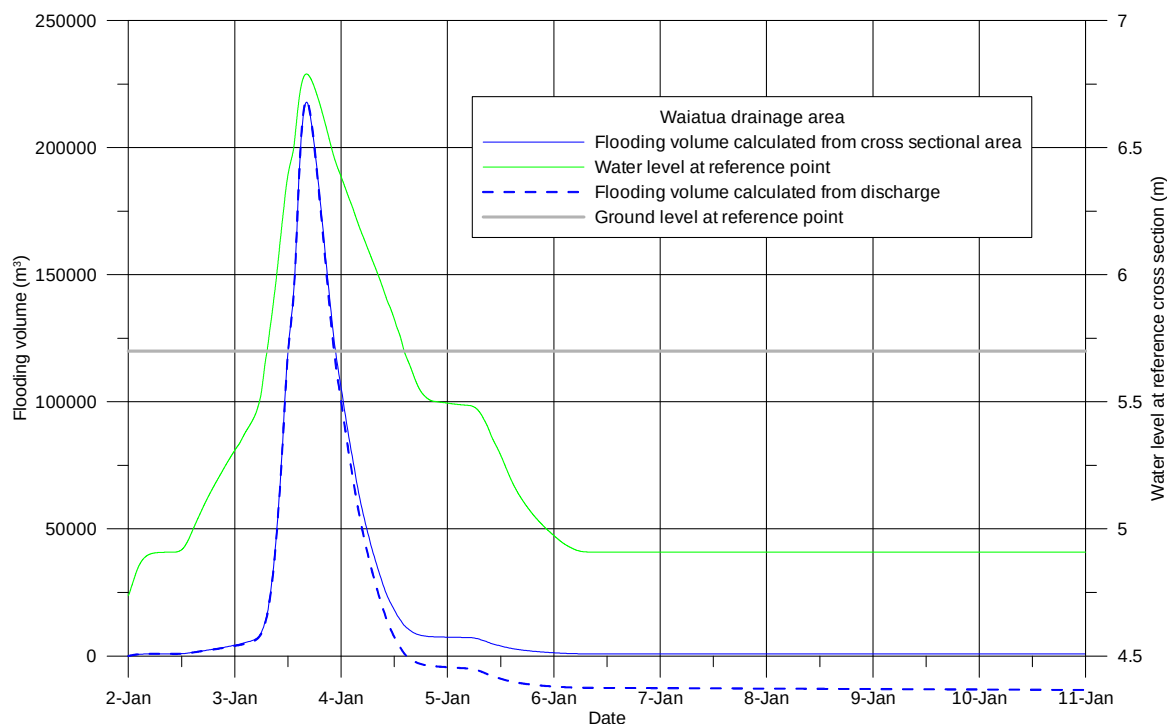


Figure 35: Flooding volume and duration in Waiatua drainage area in the 1 year ARI design flood

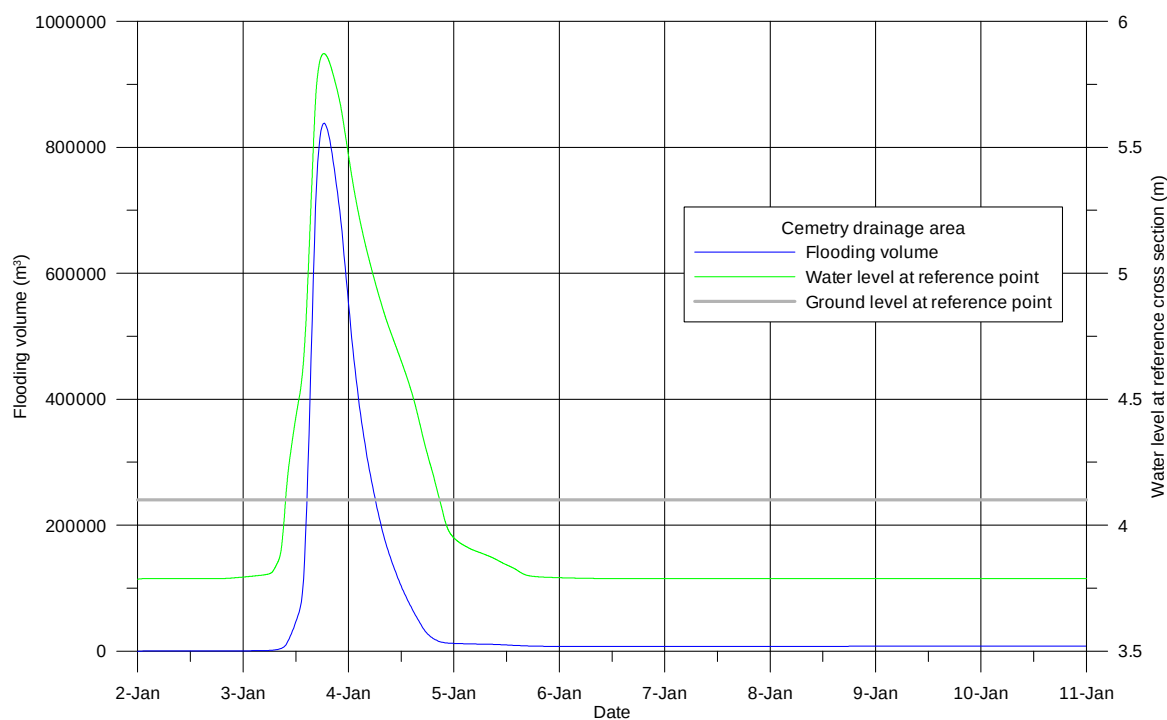


Figure 36: Flooding volume and duration in Cemetery drainage area in the 1 year ARI design flood

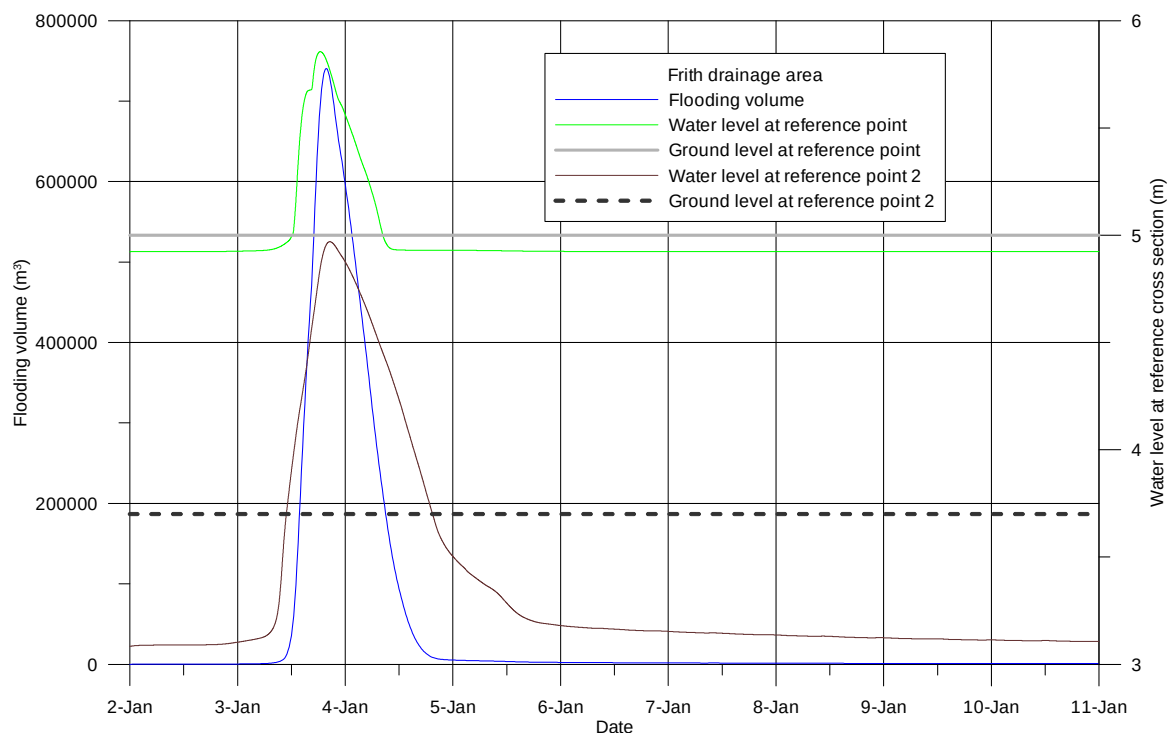


Figure 37: Flooding volume and duration in Frith drainage area in the 1 year ARI design flood

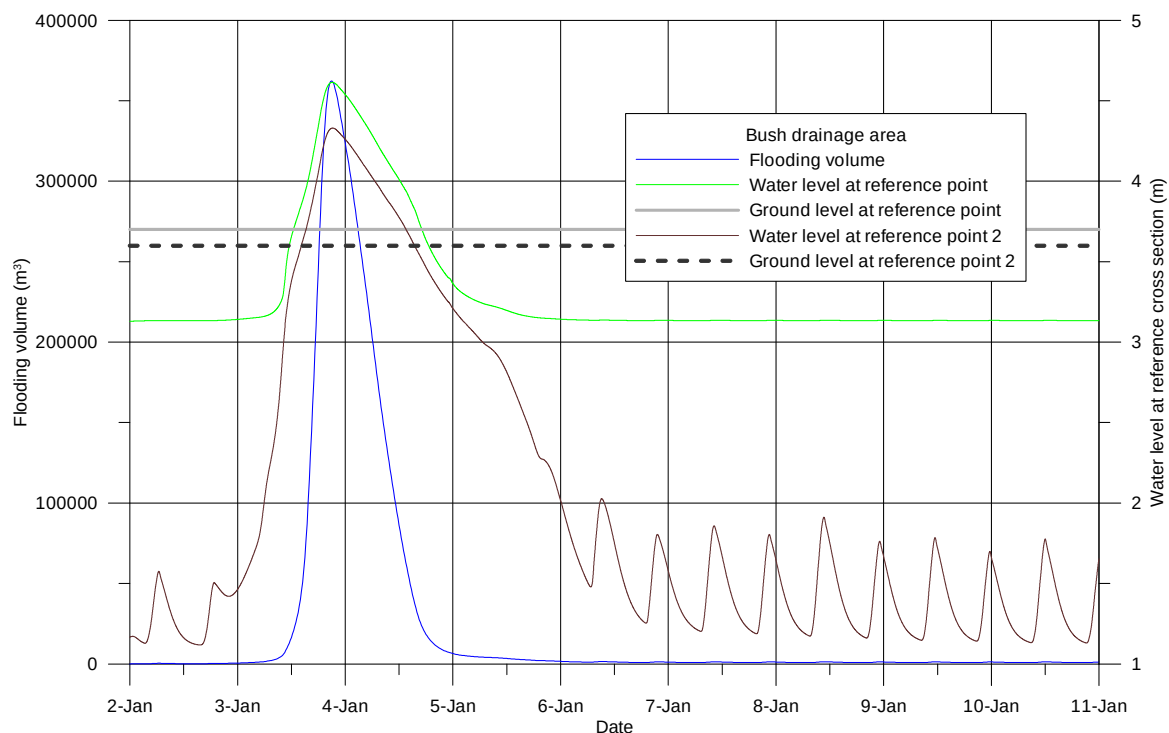


Figure 38: Flooding volume and duration in Bush drainage area in the 1 year ARI design flood



**Northland Regional Council
Kaihu Flood Management Scheme
Stage 3C**

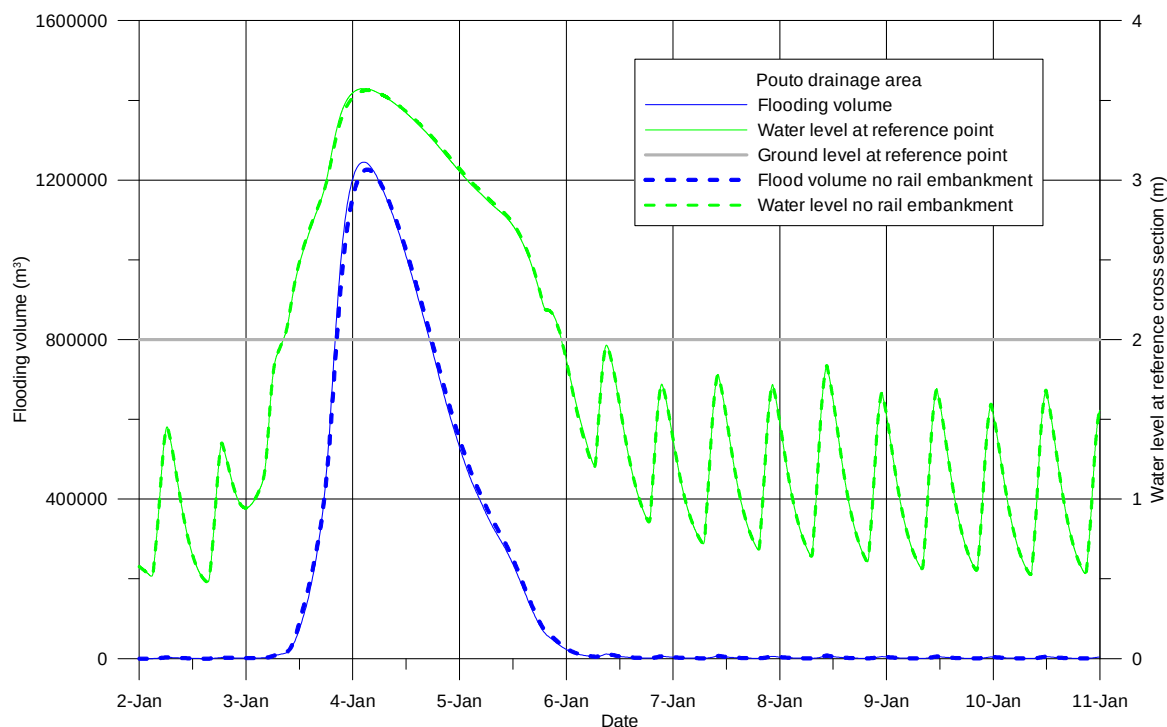


Figure 39: Flooding volume and duration in Pouto drainage area in the 1 year ARI design flood

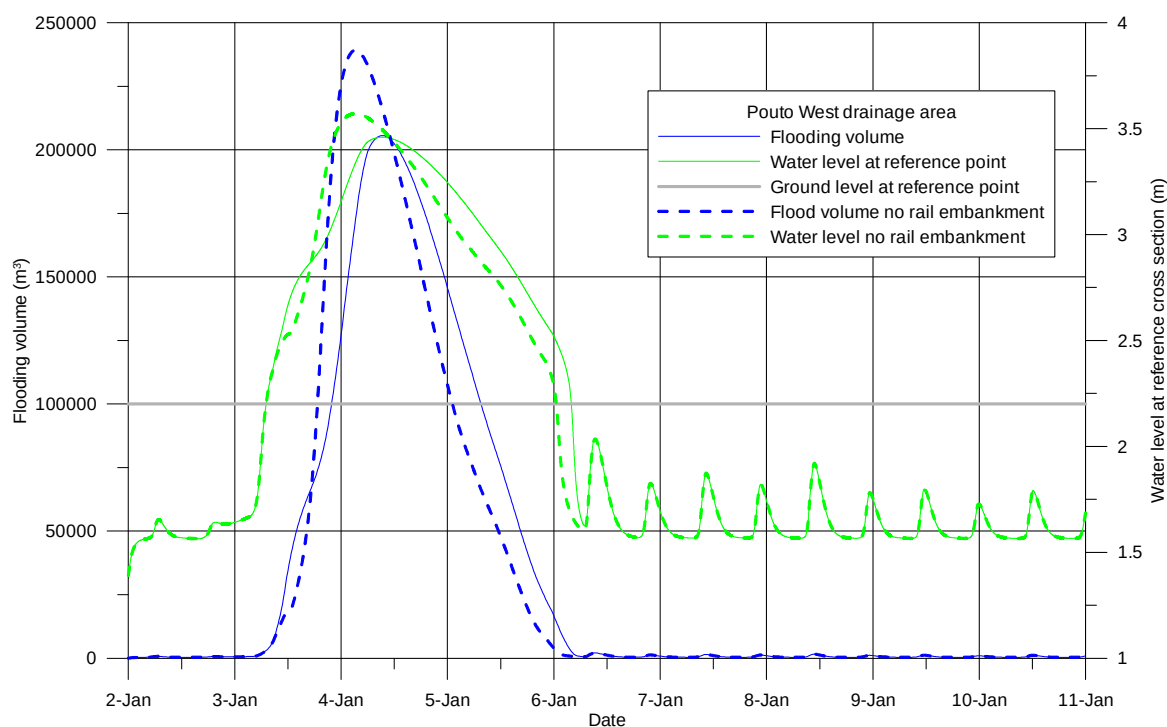


Figure 40: Flooding volume and duration in Pouto West drainage area in the 1 year ARI design flood



Northland Regional Council
Kaihu Flood Management Scheme
Stage 3C

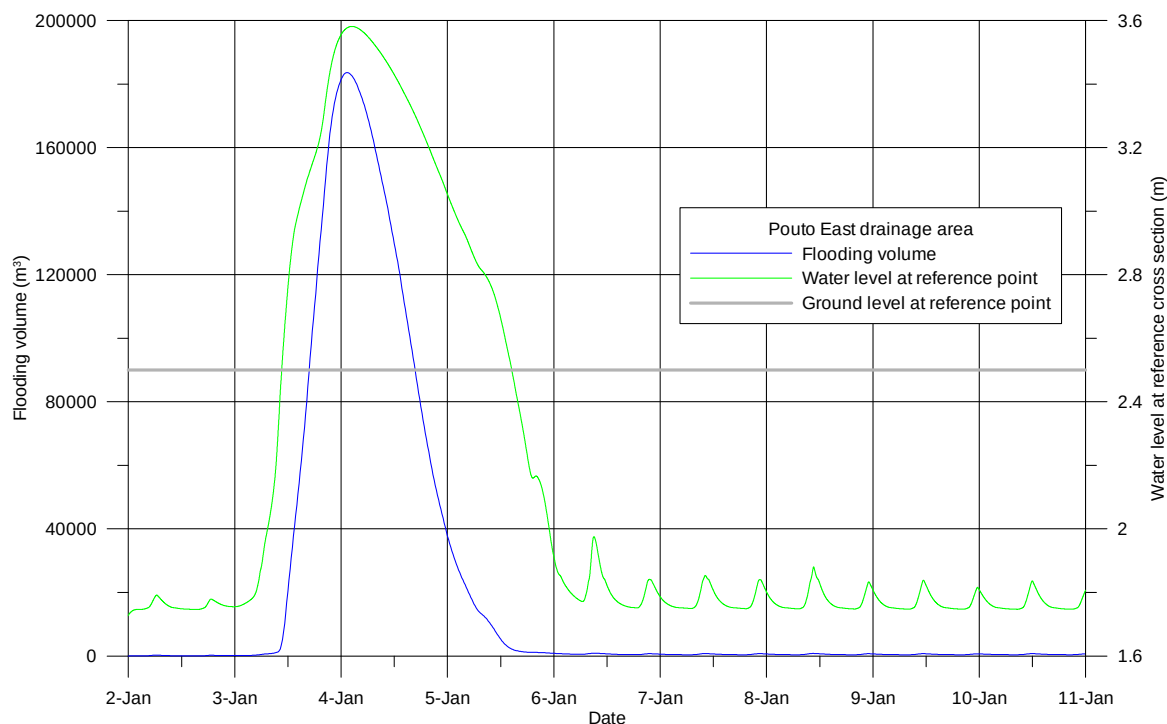


Figure 41: Flooding volume and duration in Pouto East drainage area in the 1 year ARI design flood

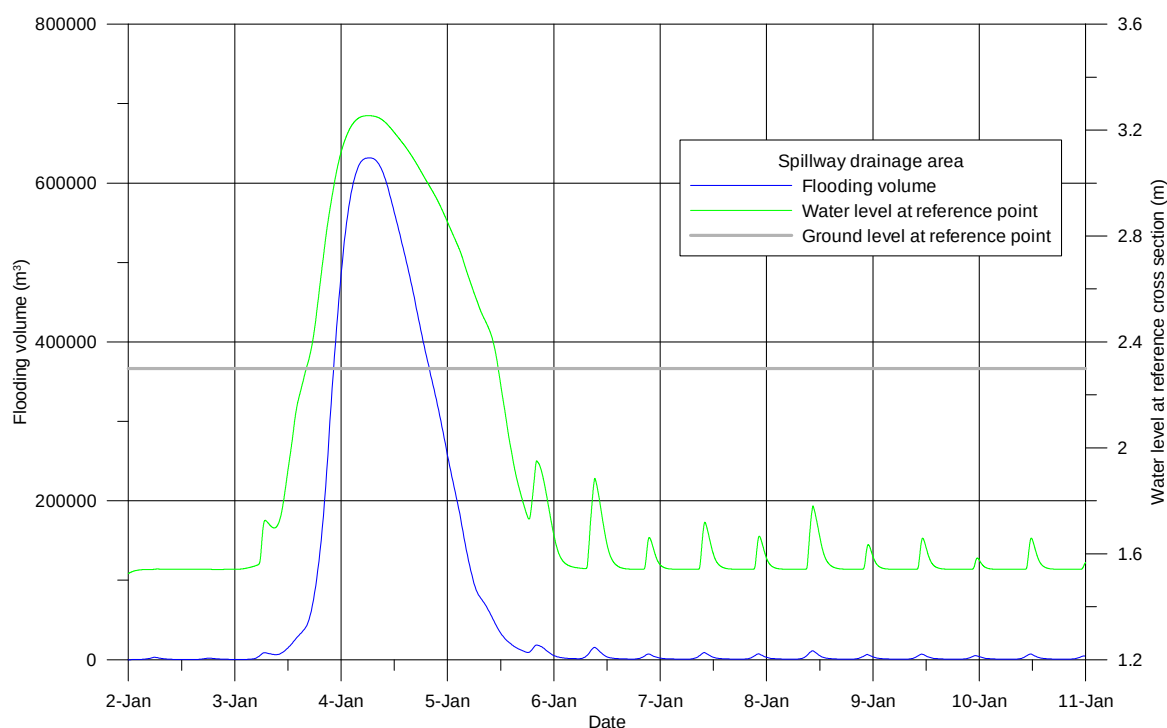


Figure 42: Flooding volume and duration in Spillway drainage area in the 1 year ARI design flood



Northland Regional Council Kaihu Flood Management Scheme Stage 3C

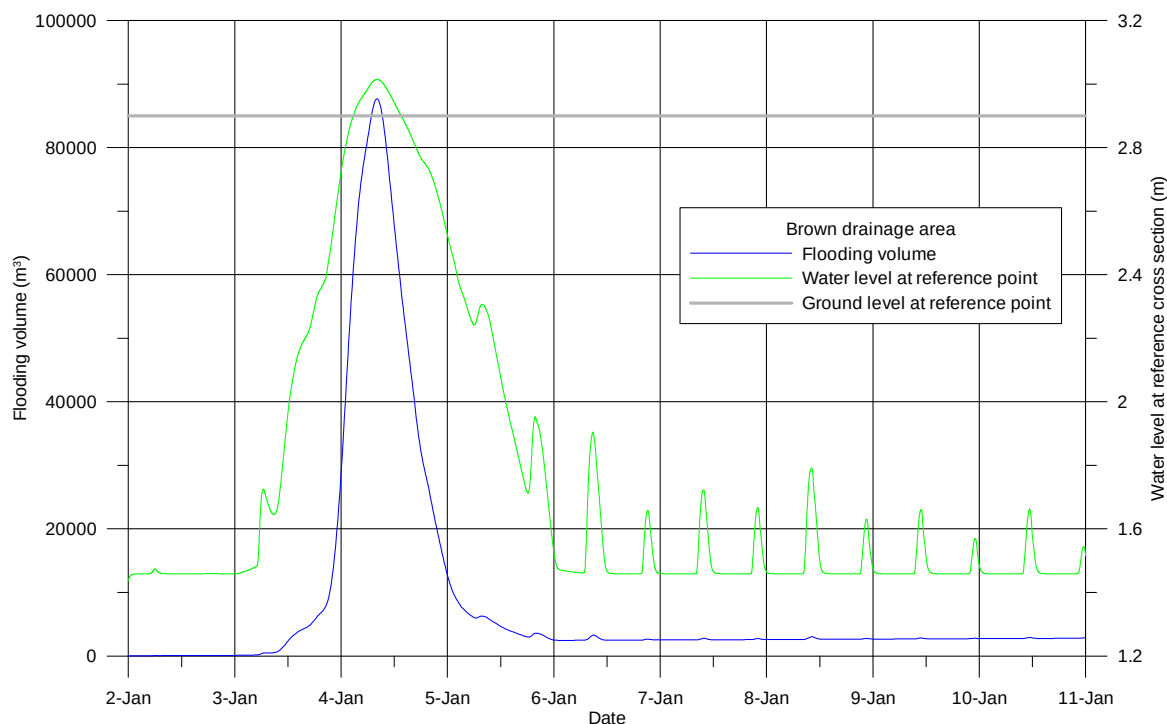


Figure 43: Flooding volume and duration in Brown drainage area in the 1 year ARI design flood

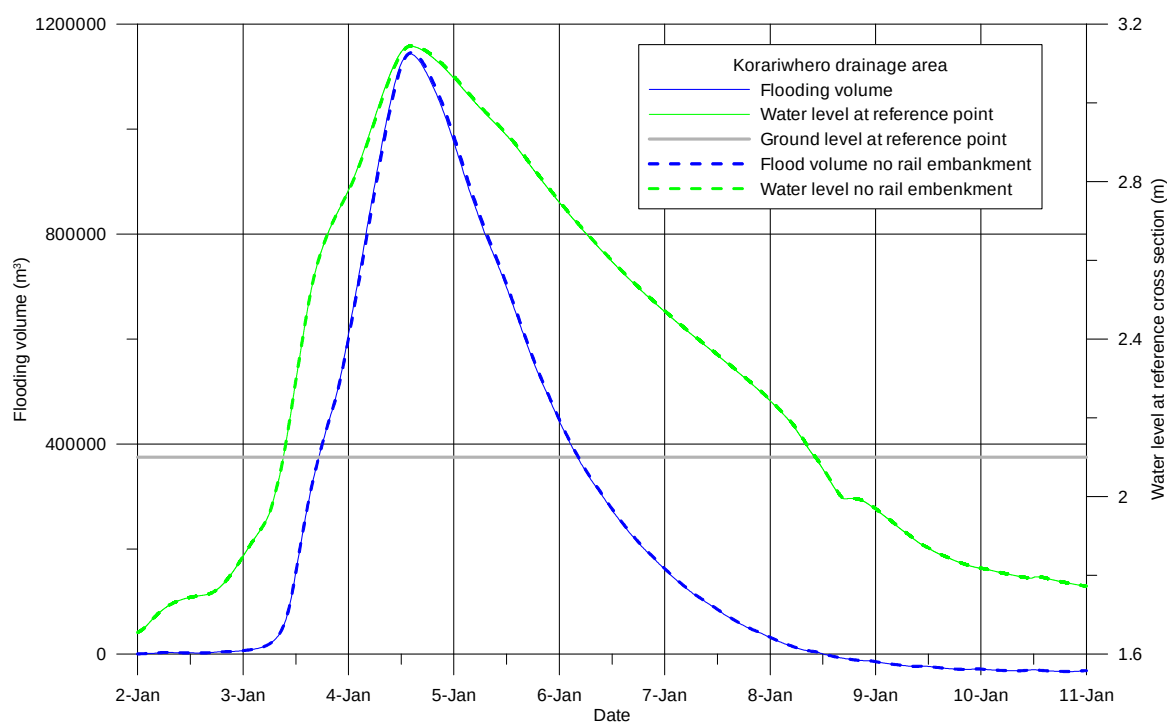


Figure 44: Flooding volume and duration in Korariwhero drainage area in the 1 year ARI design flood



**Northland Regional Council
Kaihu Flood Management Scheme
Stage 3C**

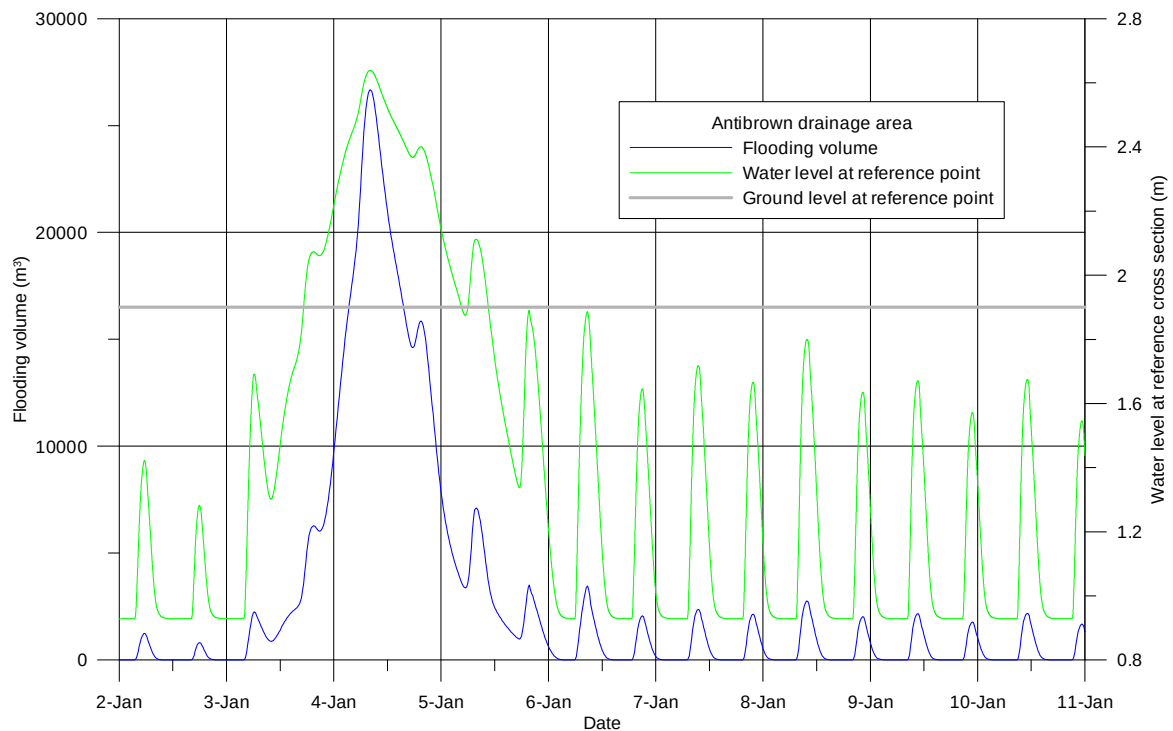


Figure 45: Flooding volume and duration in Antibrown drainage area in the 1 year ARI design flood

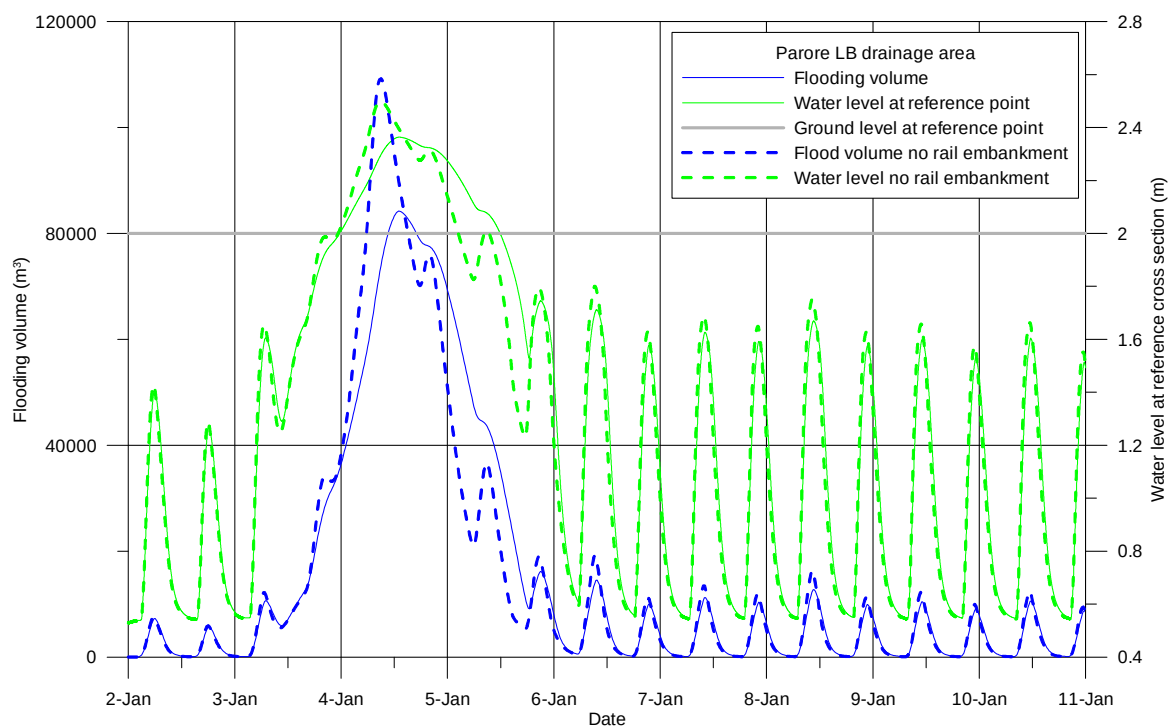


Figure 46: Flooding volume and duration in Parore LB drainage area in the 1 year ARI design flood



**Northland Regional Council
Kaihu Flood Management Scheme
Stage 3C**

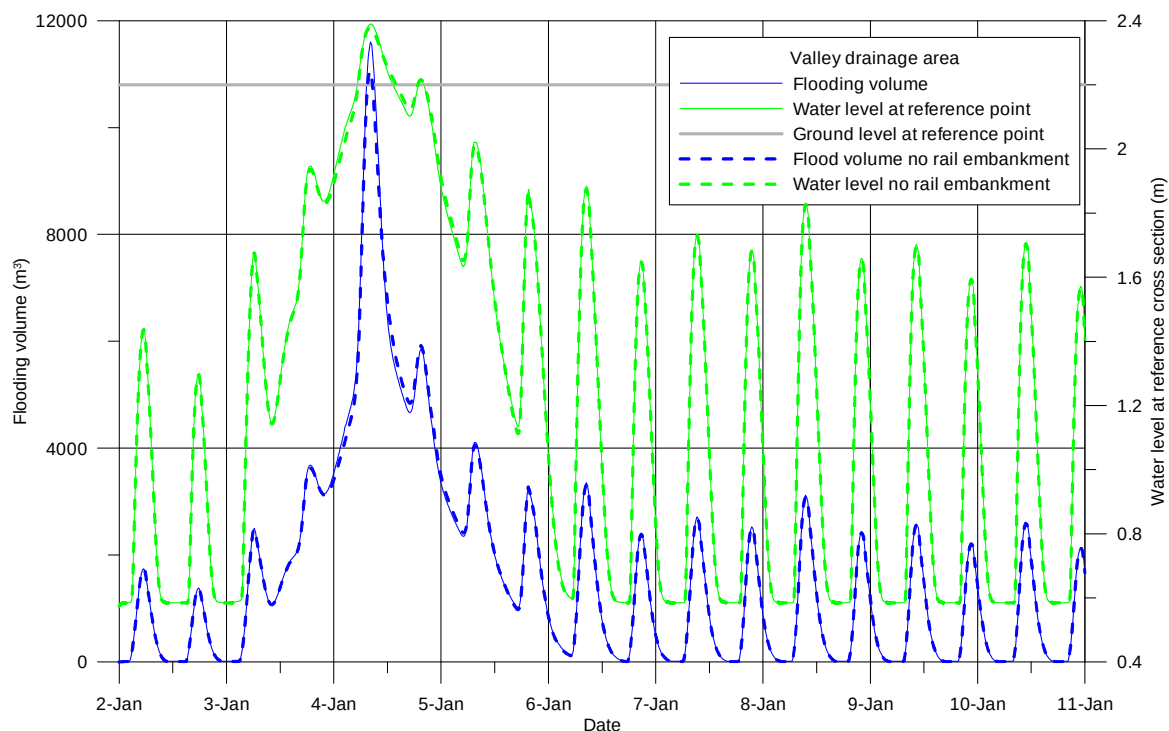


Figure 47: Flooding volume and duration in Valley drainage area in the 1 year ARI design flood

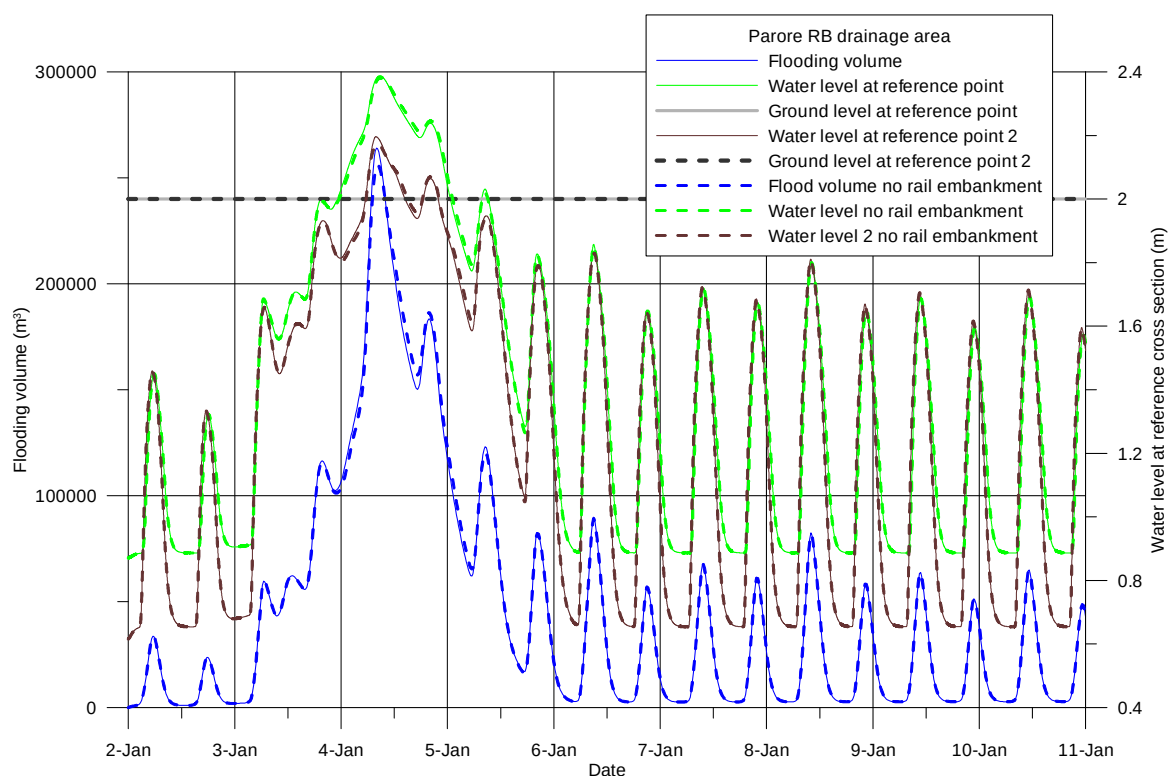


Figure 48: Flooding volume and duration in Parore RB drainage area in the 1 year ARI design flood



Northland Regional Council
Kaihu Flood Management Scheme
Stage 3C

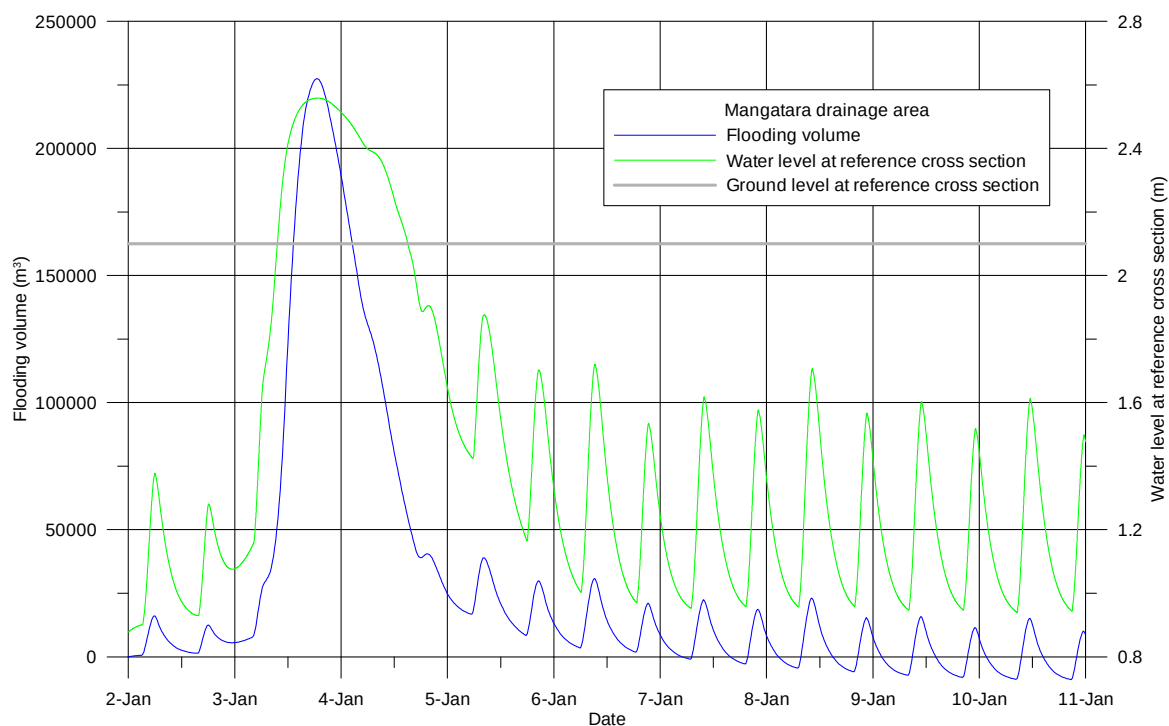


Figure 49: Flooding volume and duration in Mangatara drainage area in the 1 year ARI design flood