

## APPENDIX I Erosion hazard line maps

### KEY

	Prediction Period	Likelihood	Management Regime	Relevant land-use control
	50 years	Very unlikely	Unmanaged	Existing development: open coast including private seawalls
	50 years	Very unlikely	Managed	Existing development: inlets* including public seawalls
	100 years	Very unlikely	Unmanaged	New development: open coast including all seawalls
	100 years	Very unlikely	Managed	New development: inlets*

\* KCDC and GWRC have indicated they will to maintain/modify inlet control structures and management regimes into the foreseeable future

# Projected future shorelines

## NORTH OTAKI

### Legend

- 50 Year Unmanaged
- 50 Year Managed
- 100 Year Unmanaged
- 100 Year Managed Inlets

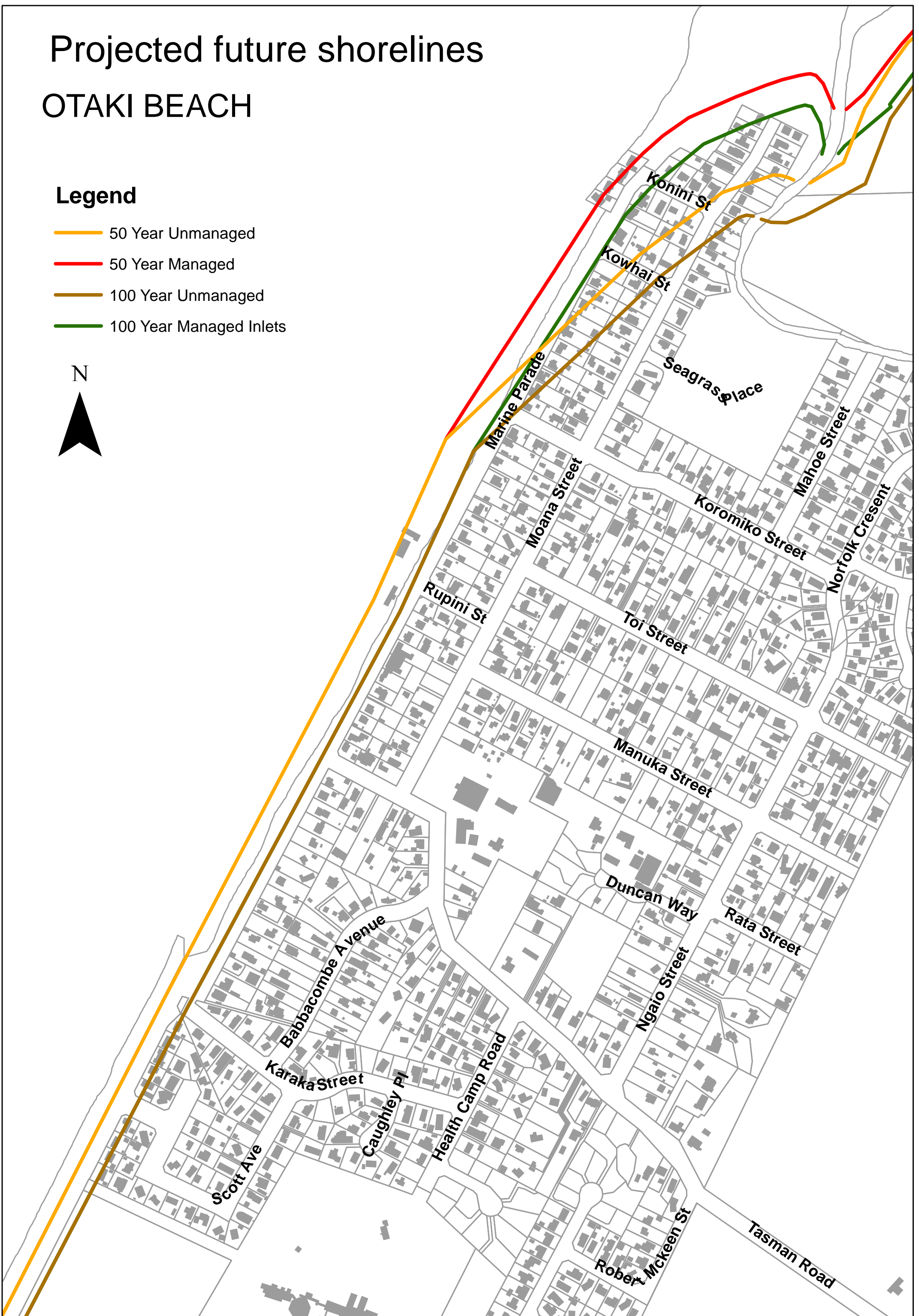


# Projected future shorelines

## OTAKI BEACH

### Legend

- 50 Year Unmanaged
- 50 Year Managed
- 100 Year Unmanaged
- 100 Year Managed Inlets

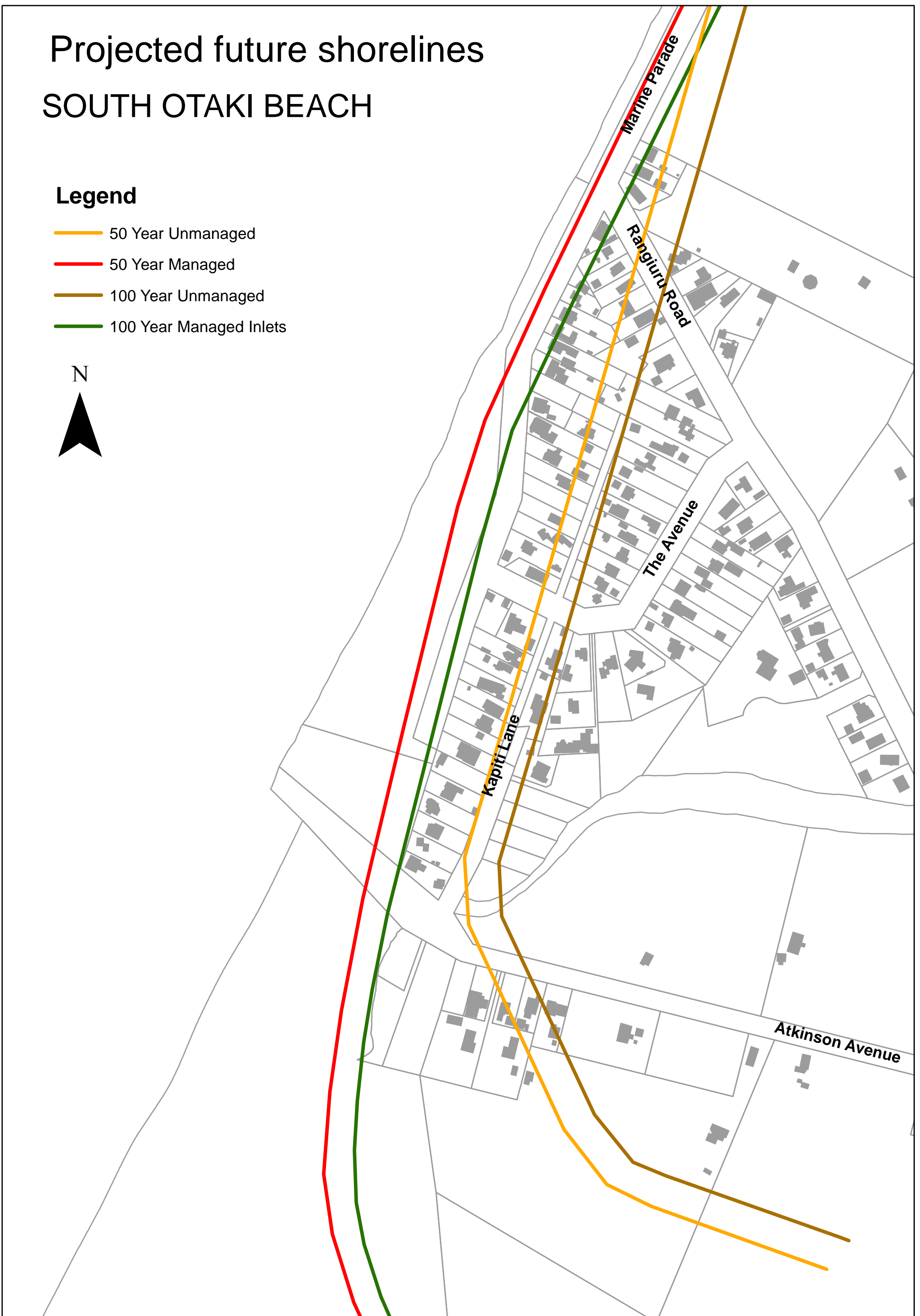


# Projected future shorelines

## SOUTH OTAKI BEACH

### Legend

- 50 Year Unmanaged
- 50 Year Managed
- 100 Year Unmanaged
- 100 Year Managed Inlets

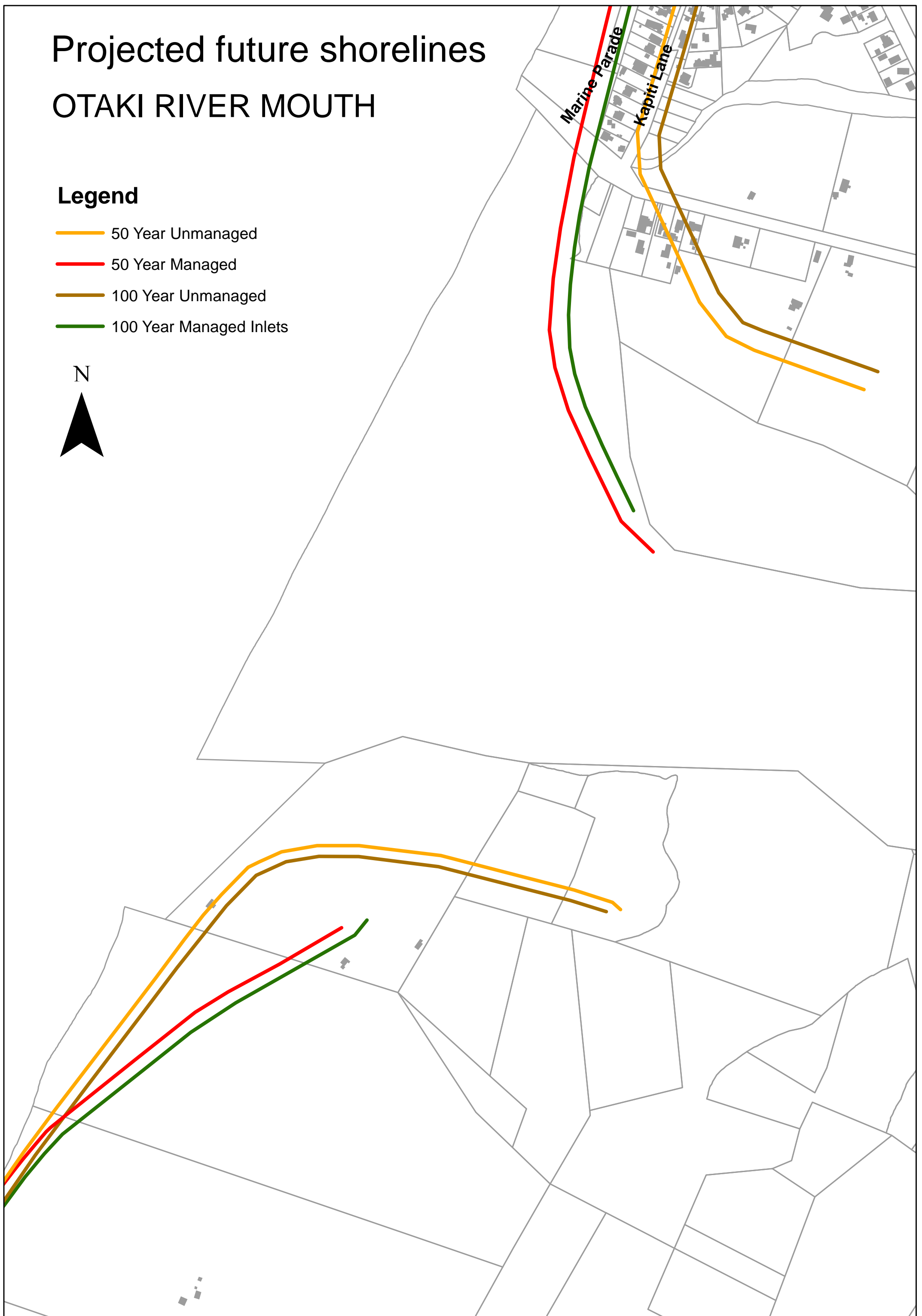


# Projected future shorelines

## OTAKI RIVER MOUTH

### Legend

- 50 Year Unmanaged
- 50 Year Managed
- 100 Year Unmanaged
- 100 Year Managed Inlets



# Projected future shorelines

## TE HORO RURAL NORTH

### Legend

- 50 Year Unmanaged
- 50 Year Managed
- 100 Year Unmanaged
- 100 Year Managed Inlets



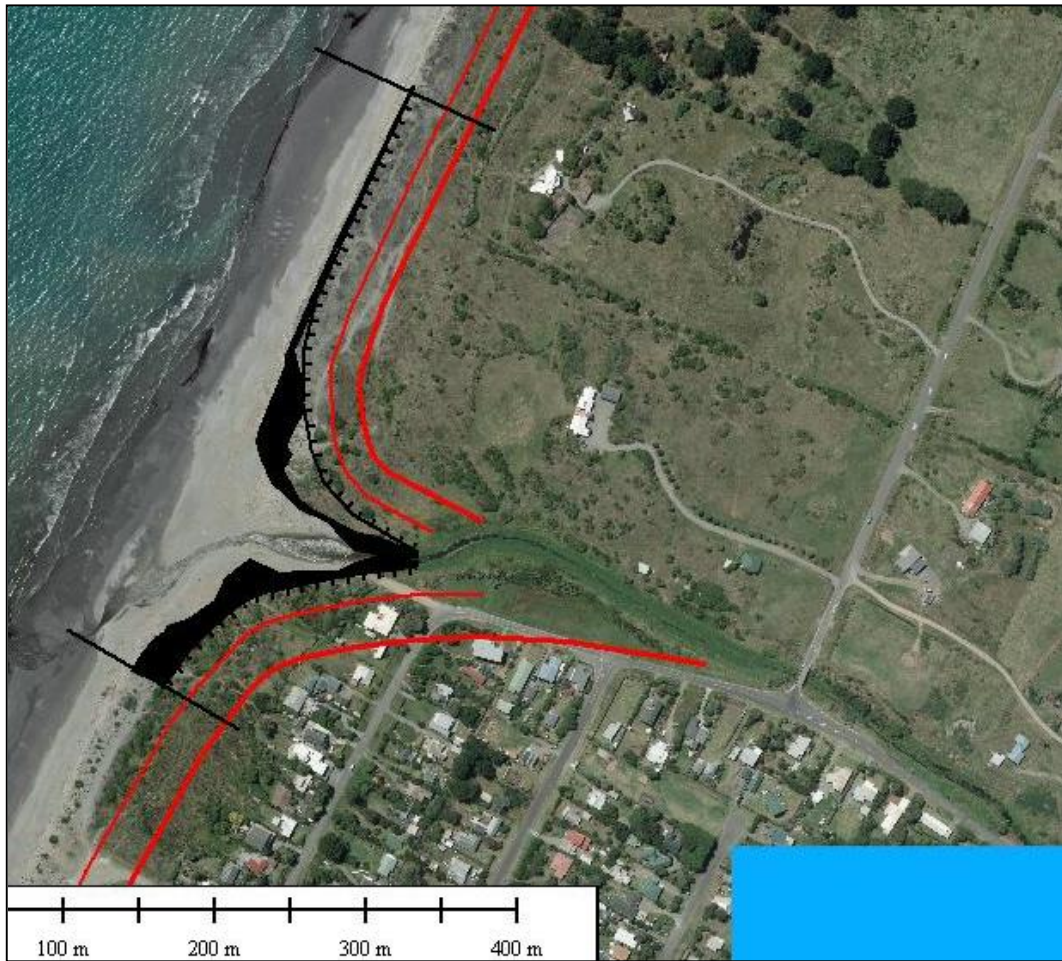
# Projected future shorelines

## TE HORO BEACH

### Legend

- 50 Year Unmanaged
- 50 Year Managed
- 100 Year Unmanaged
- 100 Year Managed Inlets





DRAFT Mangaone erosion assessment analysis for managed inlet 50 and 100 yr scenarios (note the managed scenario was not undertaken in the 2012 assessment).

The black areas depict the shoreline envelop for 1993 to 2013 samples out to the GWRC trigger lines (marked by black lines) used to initiate a mouth cut (realignment). The raked black lines define the inlet migration curves, while the thin and thick red lines define the 50 and 100 yr erosion hazard prediction lines respectively.

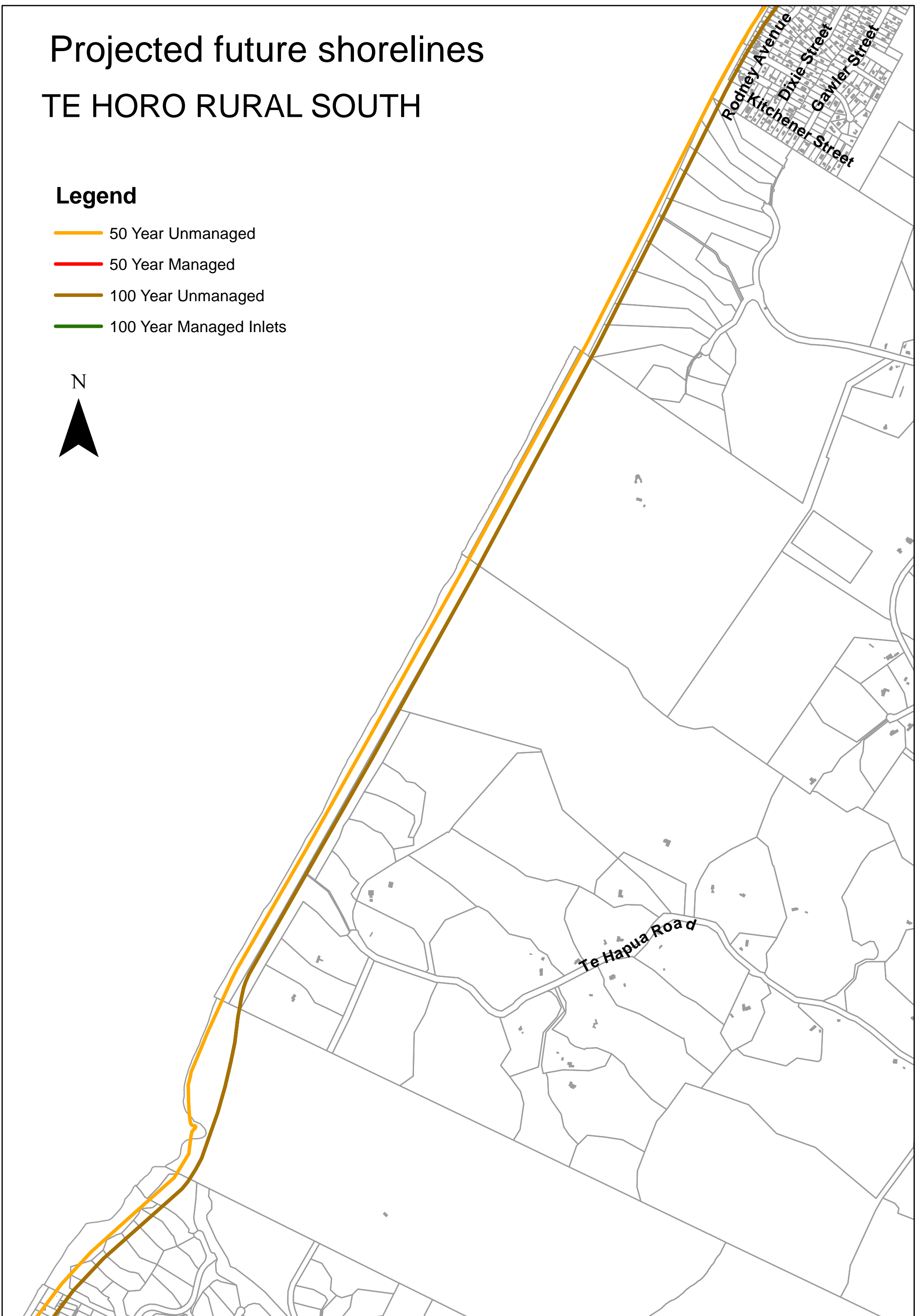


# Projected future shorelines

## TE HORO RURAL SOUTH

### Legend

- 50 Year Unmanaged
- 50 Year Managed
- 100 Year Unmanaged
- 100 Year Managed Inlets



# Projected future shorelines

## PEKA PEKA BEACH

### Legend

- 50 Year Unmanaged
- 50 Year Managed
- 100 Year Unmanaged
- 100 Year Managed Inlets

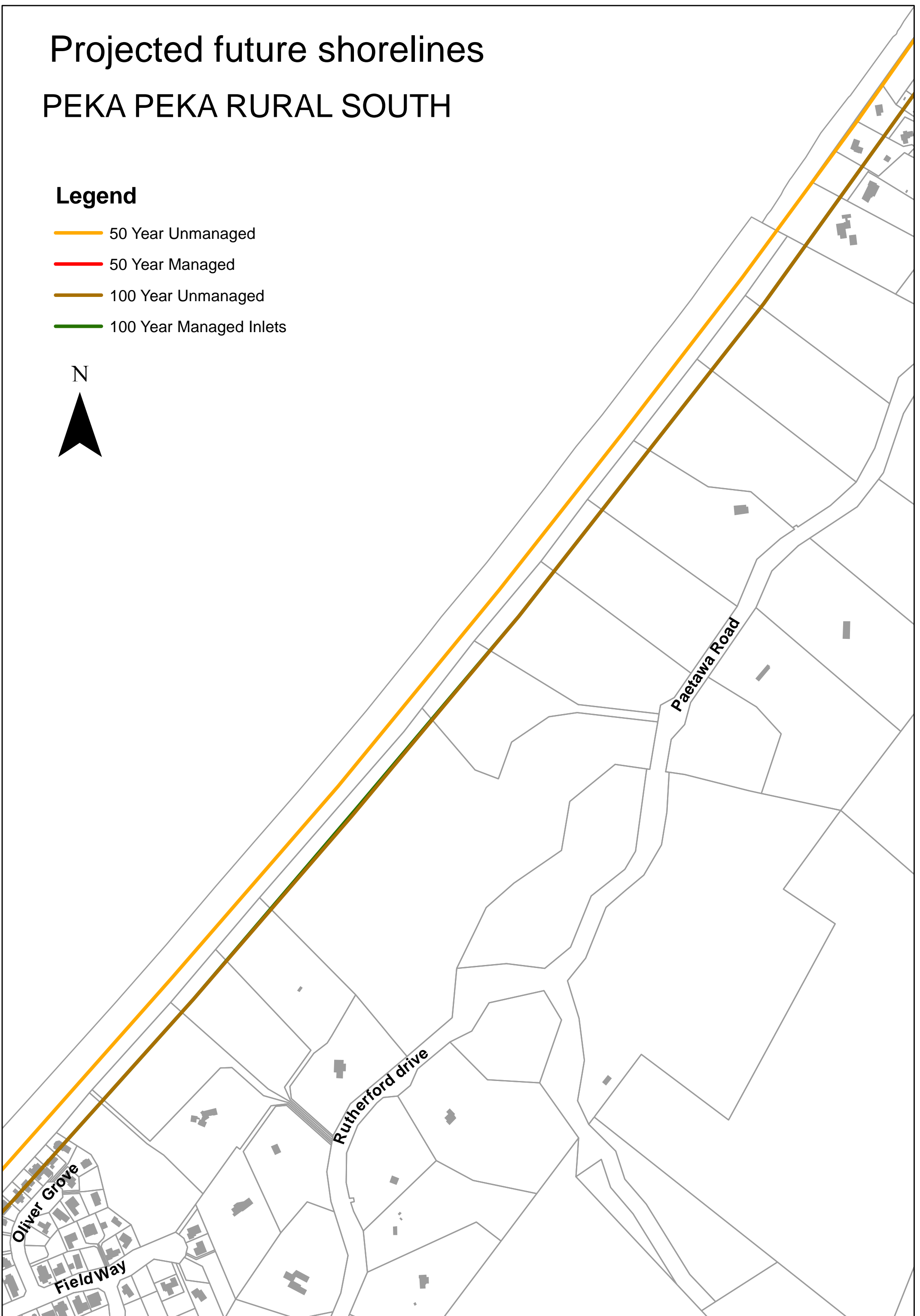


# Projected future shorelines

## PEKA PEKA RURAL SOUTH

### Legend

- 50 Year Unmanaged
- 50 Year Managed
- 100 Year Unmanaged
- 100 Year Managed Inlets

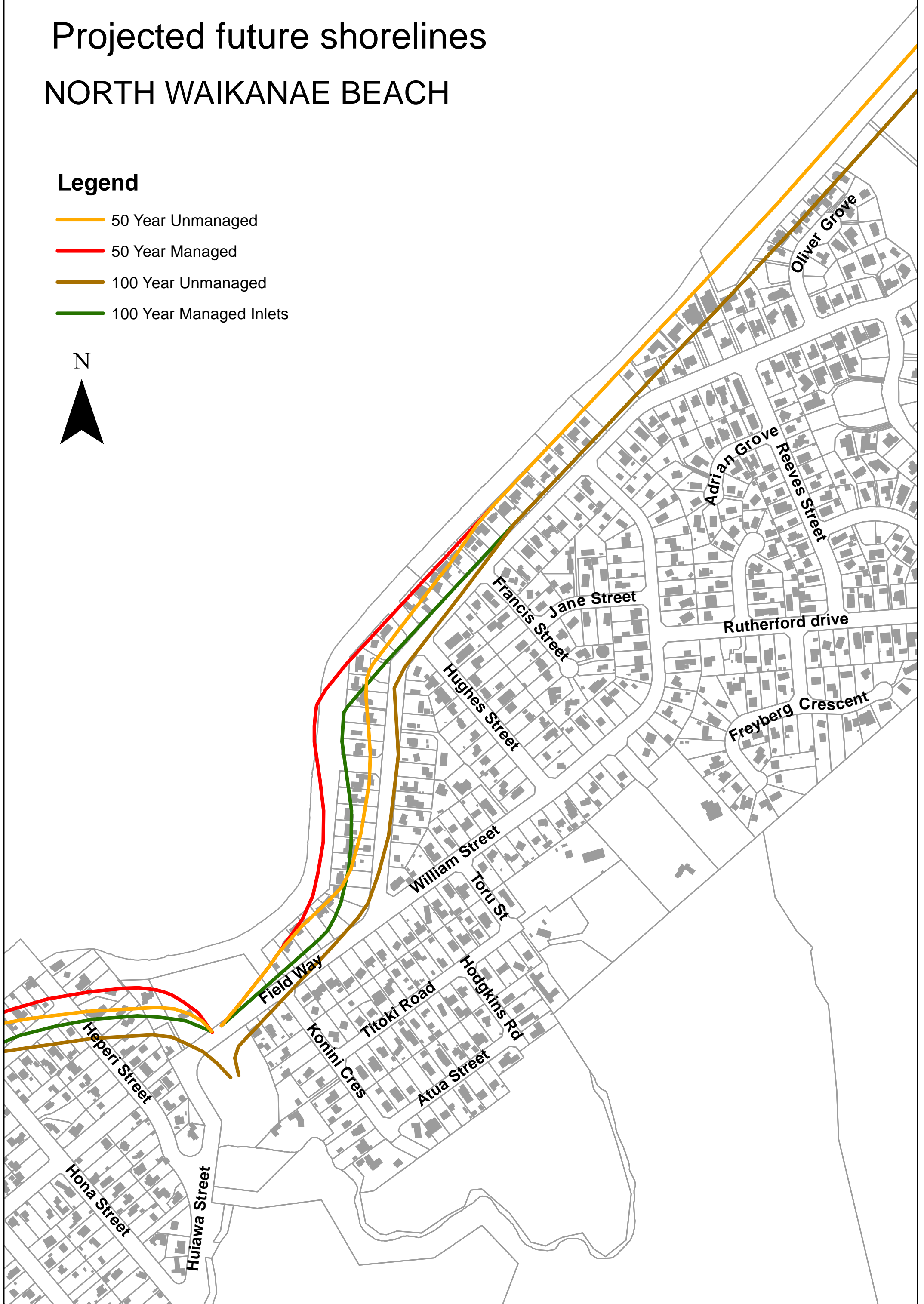


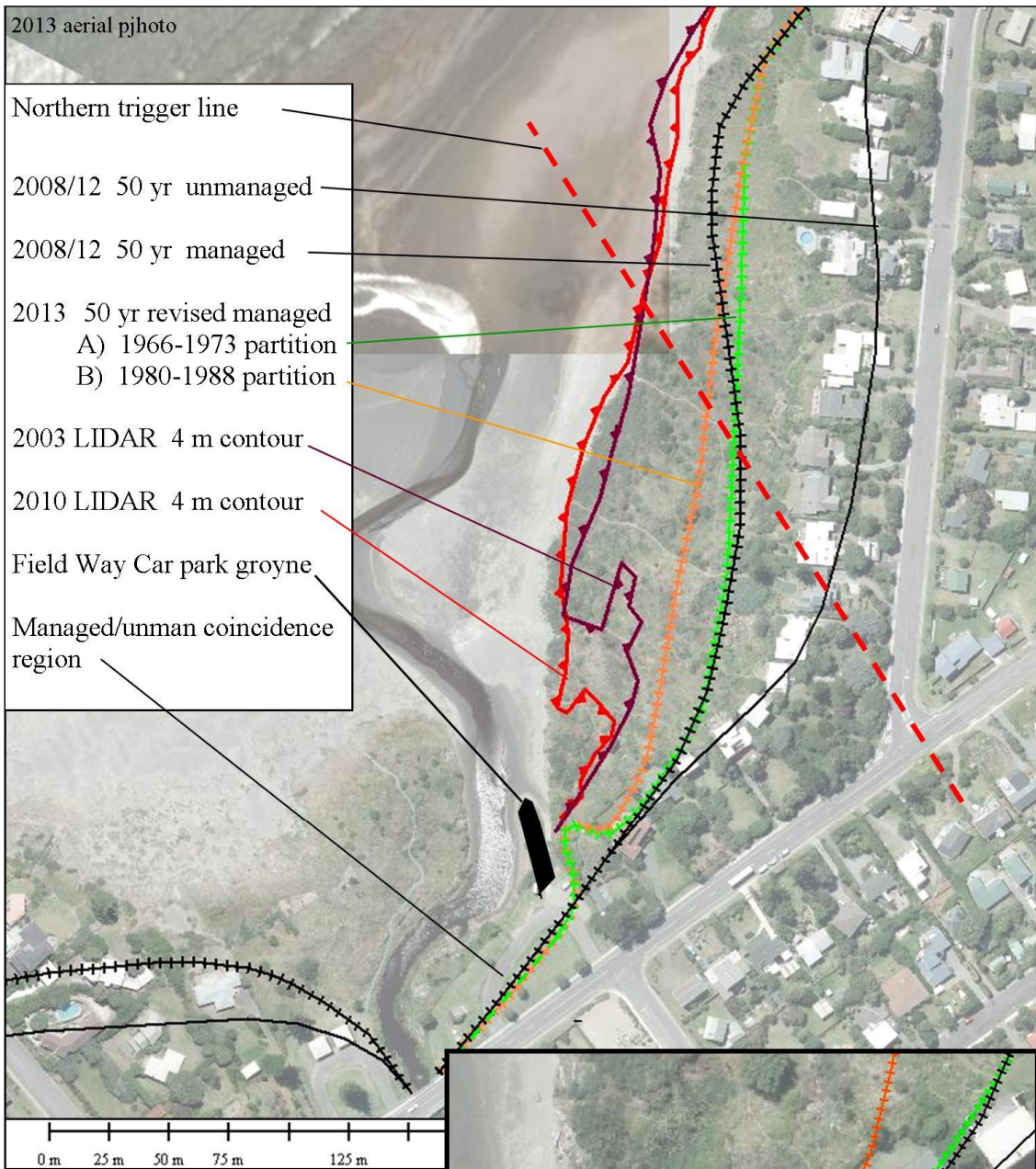
# Projected future shorelines

## NORTH WAIKANAE BEACH

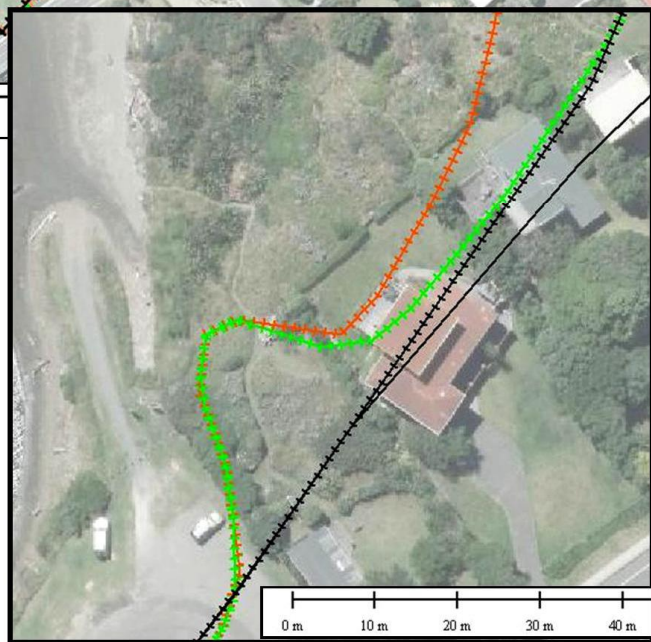
### Legend

- 50 Year Unmanaged
- 50 Year Managed
- 100 Year Unmanaged
- 100 Year Managed Inlets





Revised inlet erosion prediction lines (2013) incorporating various sources of additional information described above. Previous (2008 and 2012) prediction lines also shown along with the 2003 and 2010 four metre contours (an approximation for channel management triggered by a 2 m scarp height).

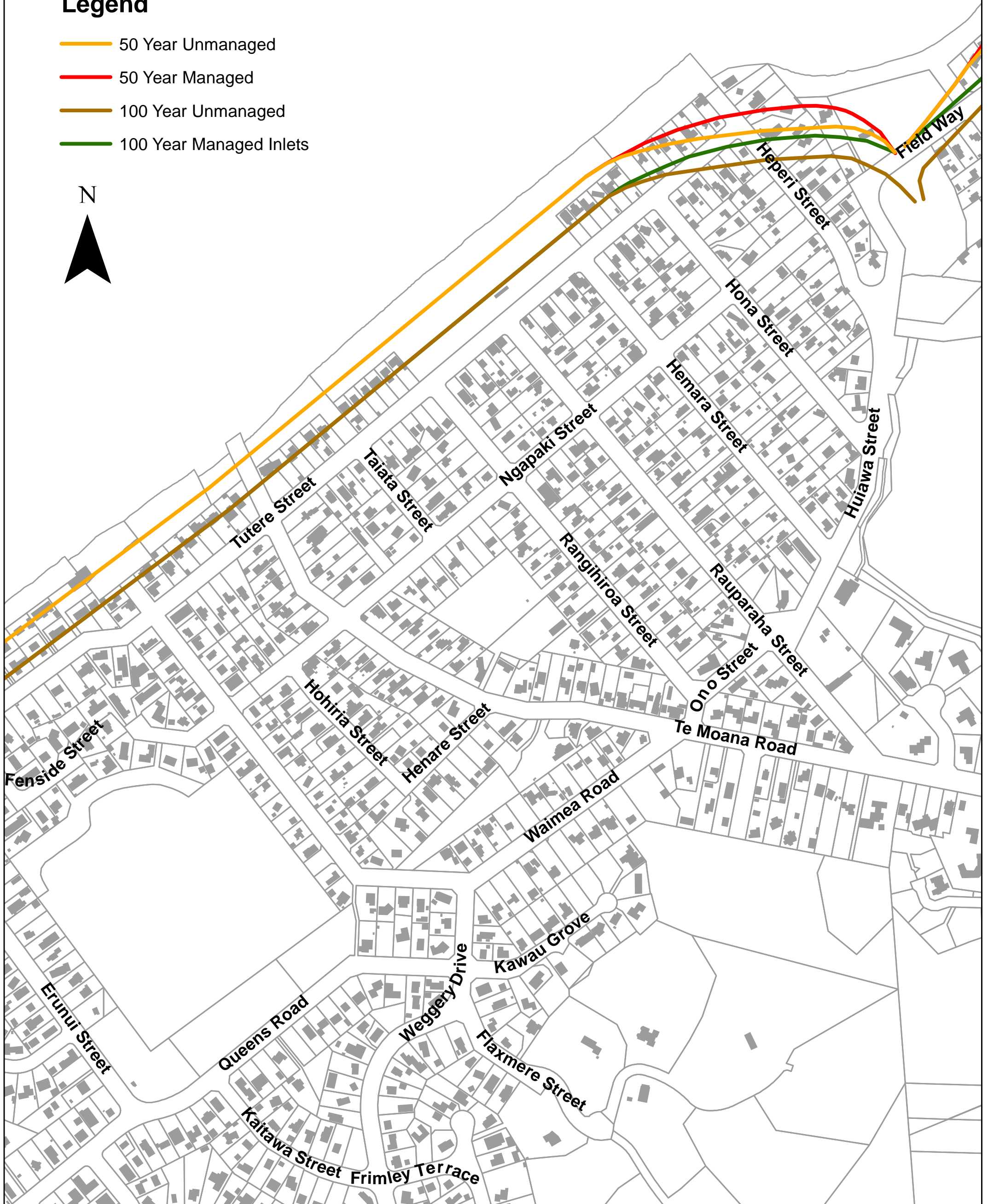


# Projected future shorelines

## CENTRAL WAIKANAE BEACH

### Legend

- 50 Year Unmanaged
- 50 Year Managed
- 100 Year Unmanaged
- 100 Year Managed Inlets

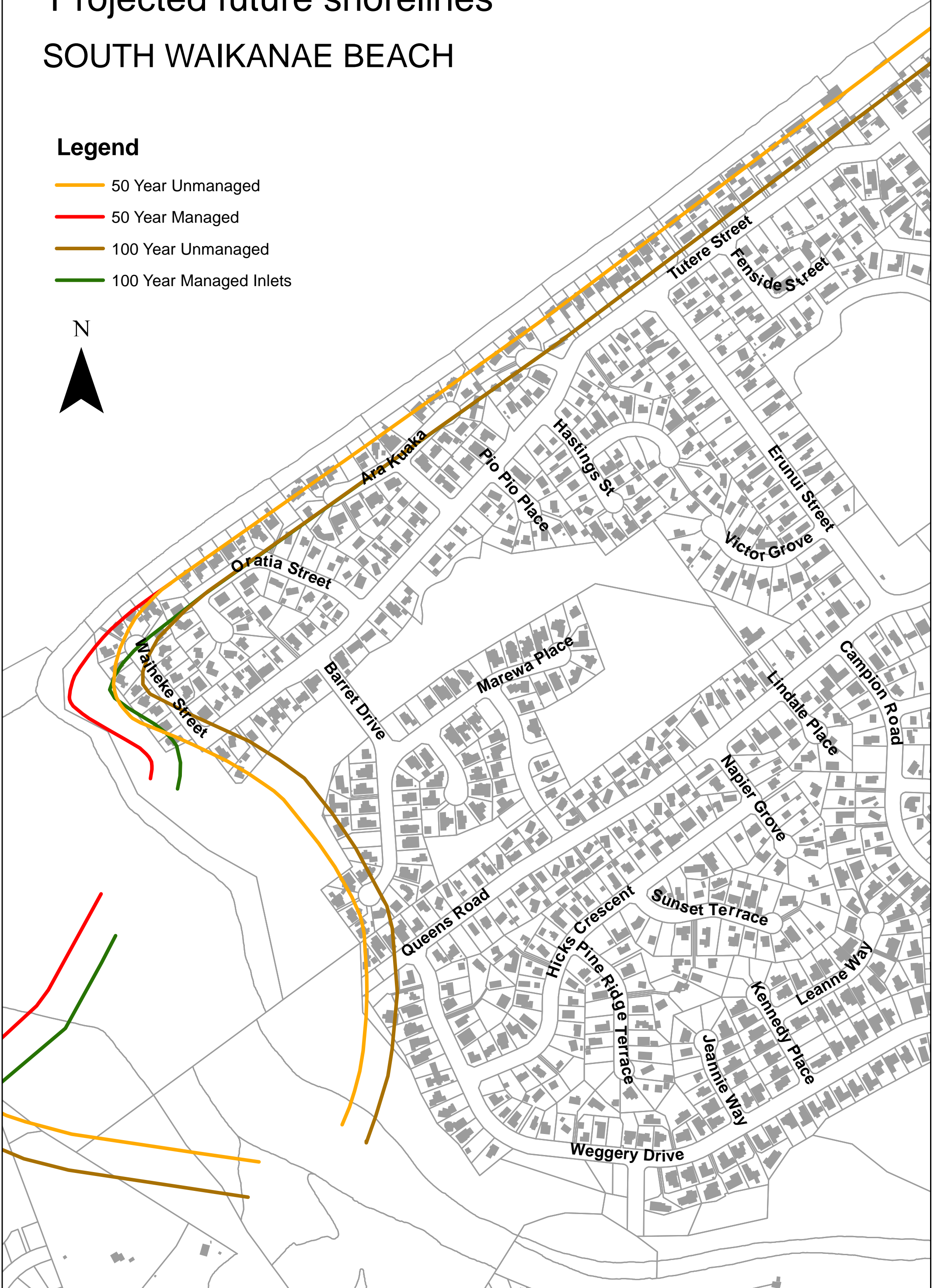


# Projected future shorelines

## SOUTH WAIKANAE BEACH

### Legend

- 50 Year Unmanaged
- 50 Year Managed
- 100 Year Unmanaged
- 100 Year Managed Inlets

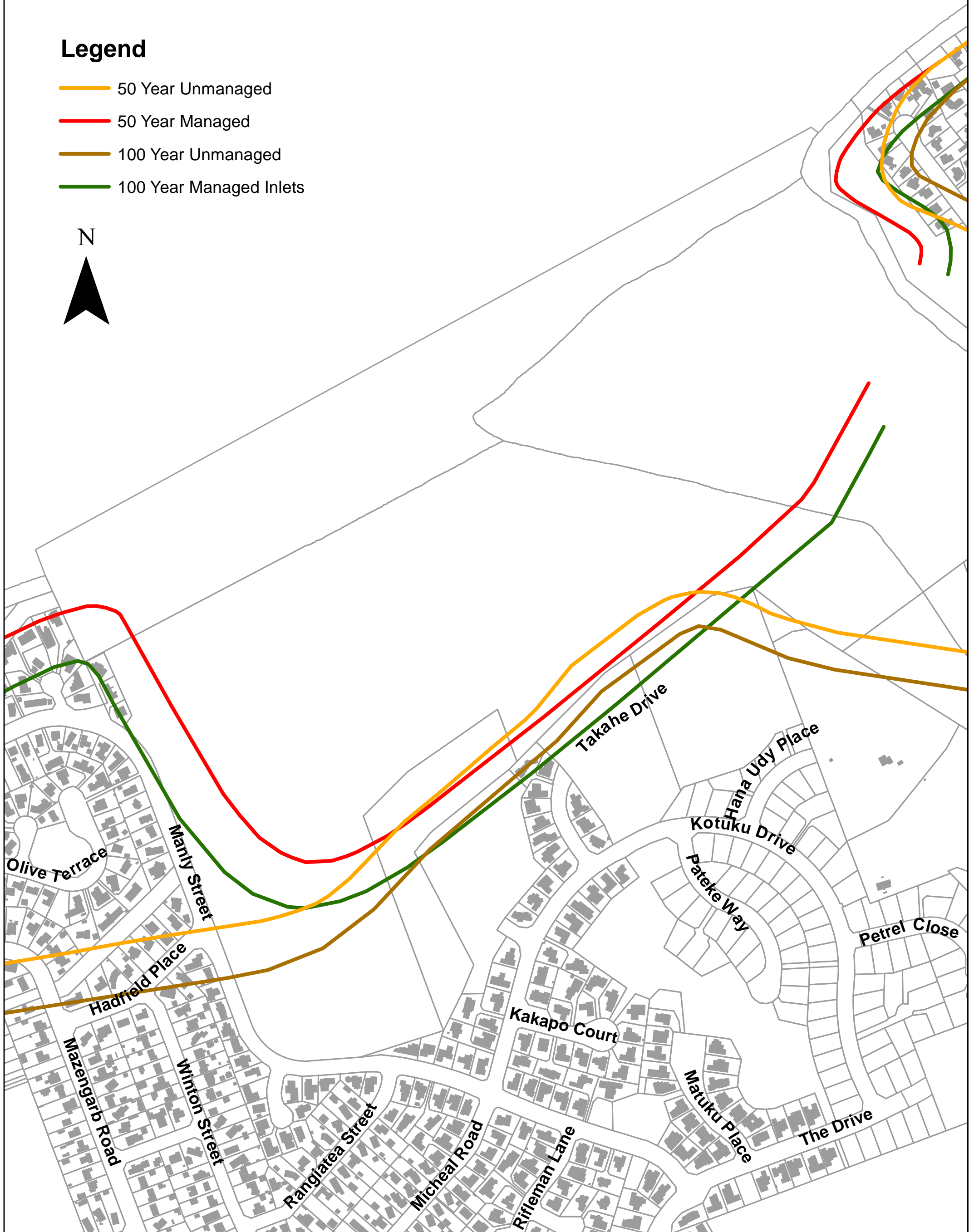


# Projected future shorelines

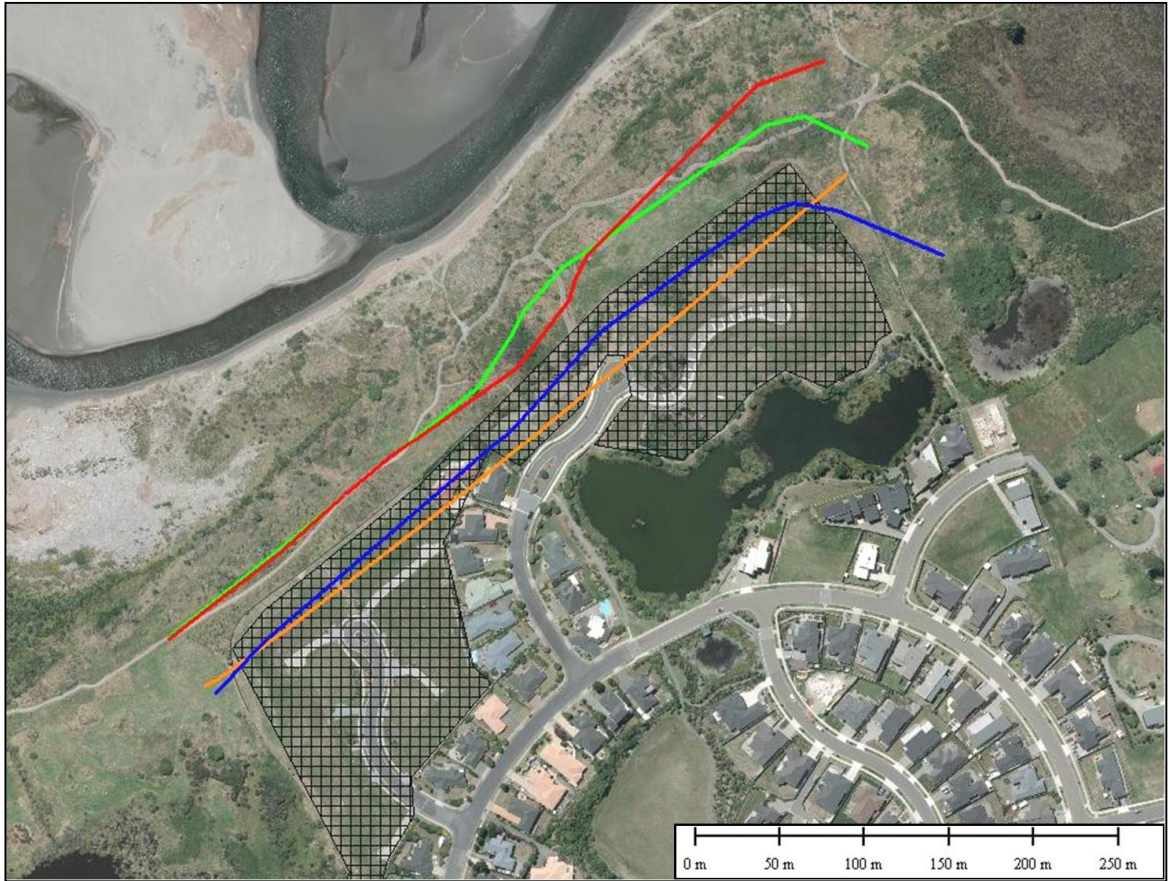
## WAIKANAE RIVER MOUTH

### Legend

- 50 Year Unmanaged
- 50 Year Managed
- 100 Year Unmanaged
- 100 Year Managed Inlets







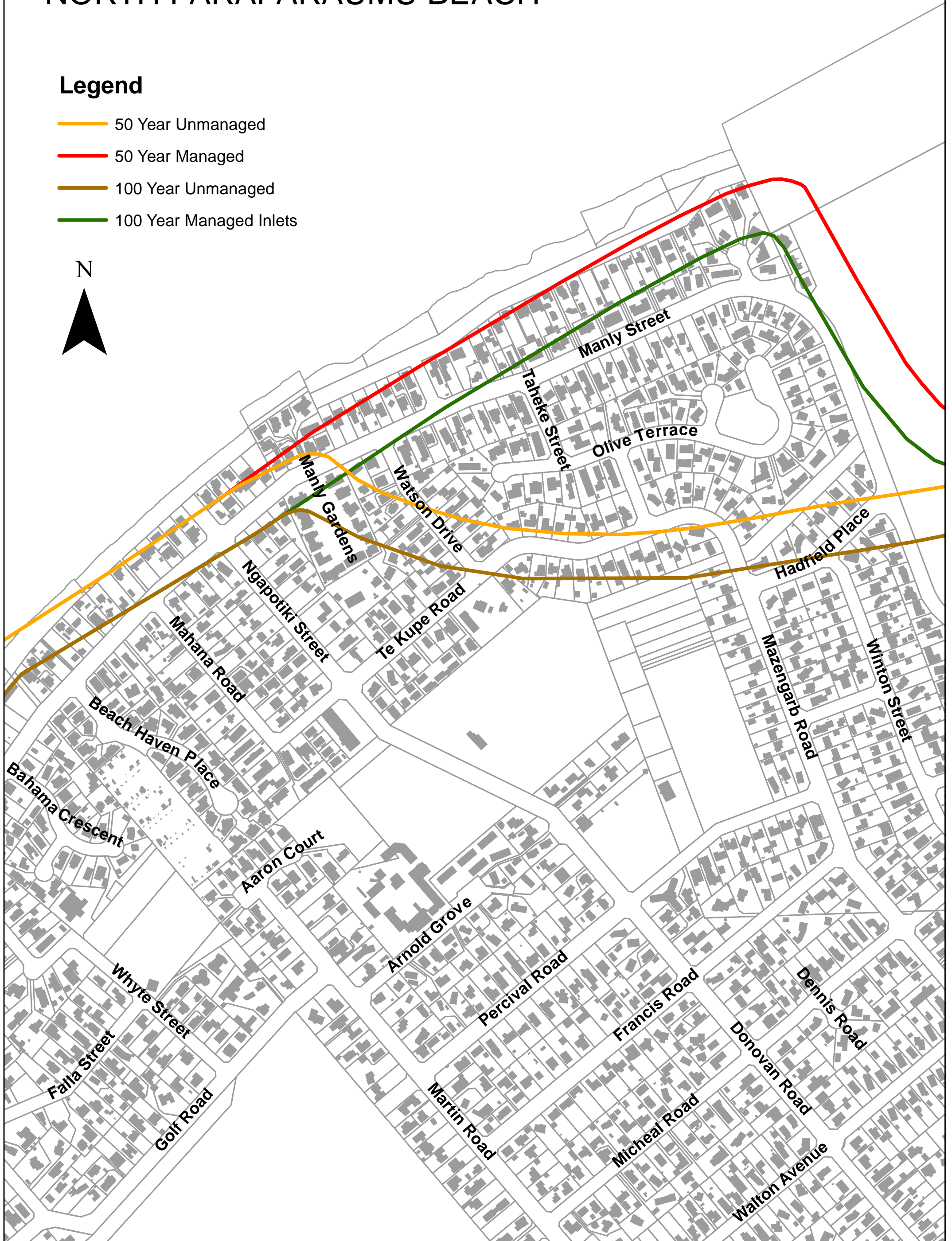
Site-specific 100 yr erosion prediction lines: Red = managed inlet, Green = unmanaged inlet. For comparison the 100 yr IEPLs from the 2012 generic assessment are shown in orange for the managed and blue for the unmanaged scenario. (January 2014).

# Projected future shorelines

## NORTH PARAPARAUMU BEACH

### Legend

- 50 Year Unmanaged
- 50 Year Managed
- 100 Year Unmanaged
- 100 Year Managed Inlets

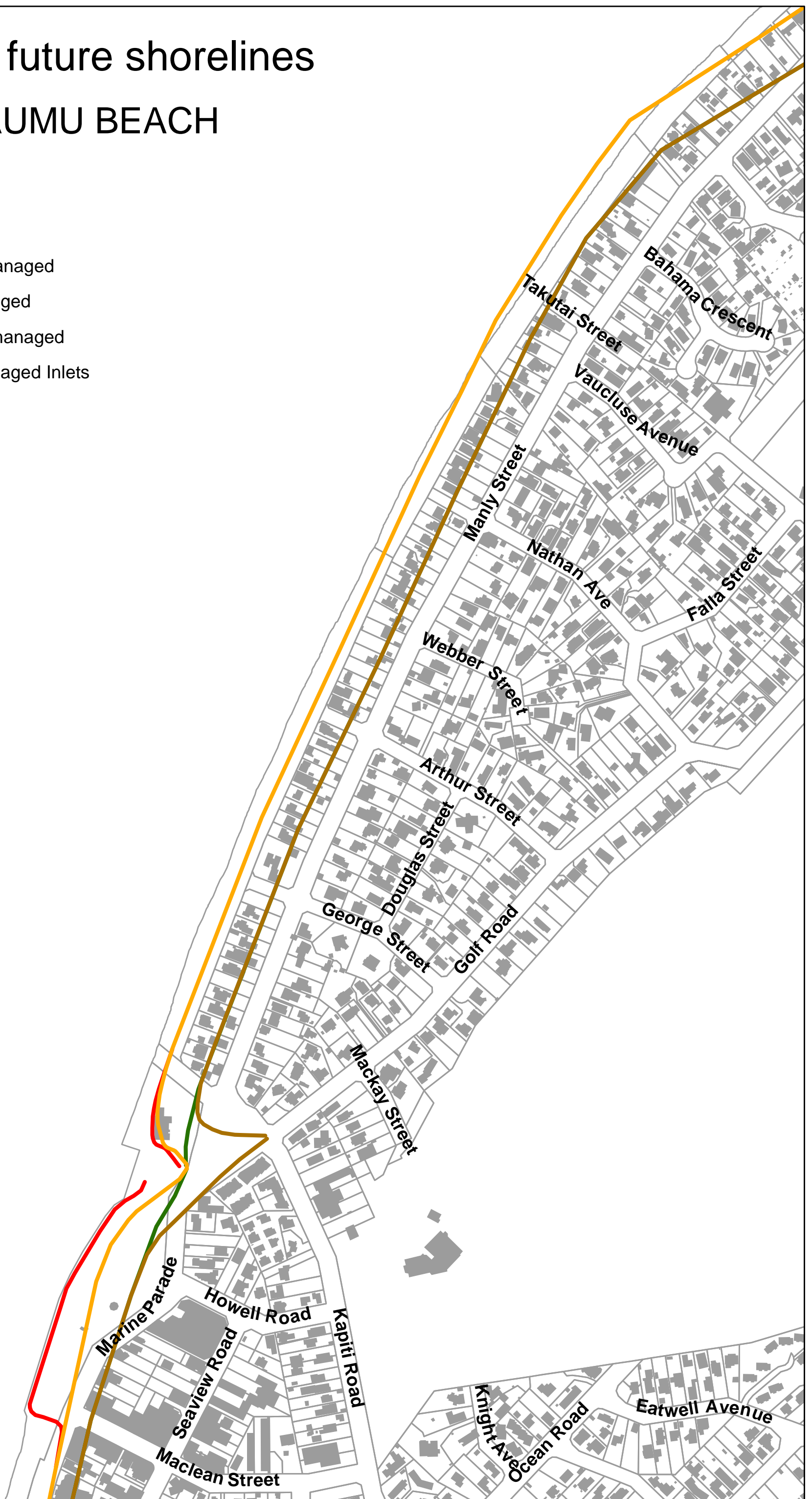


# Projected future shorelines

## PARAPARAUMU BEACH

### Legend

- 50 Year Unmanaged
- 50 Year Managed
- 100 Year Unmanaged
- 100 Year Managed Inlets

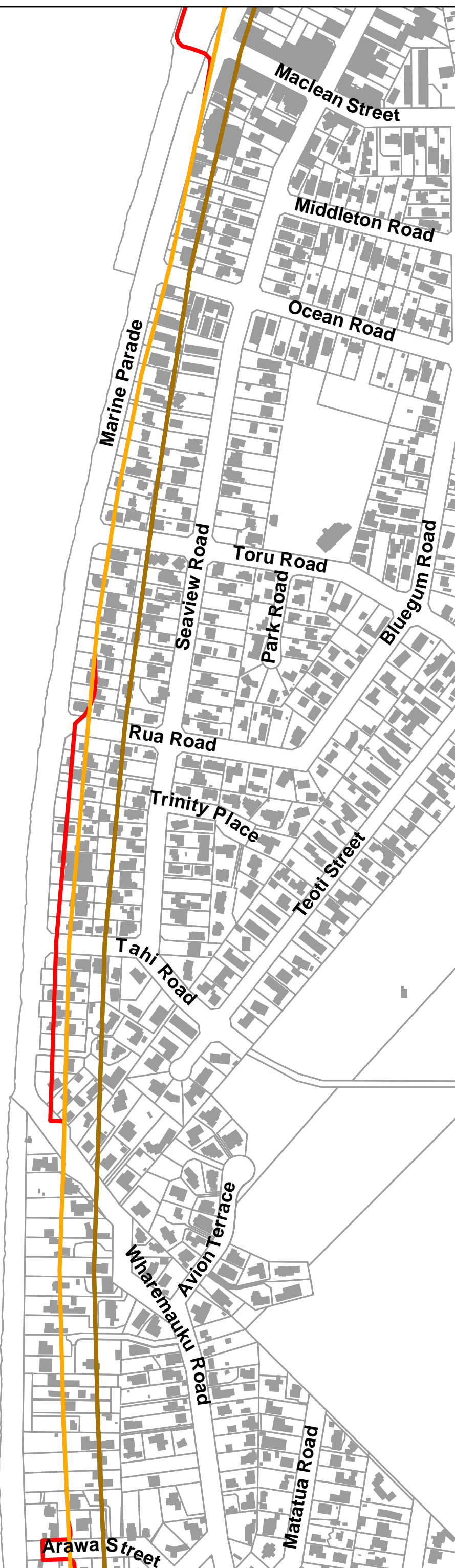


# Projected future shorelines

## SOUTH PARAPARAUMU BEACH

### Legend

- 50 Year Unmanaged
- 50 Year Managed
- 100 Year Unmanaged
- 100 Year Managed Inlets

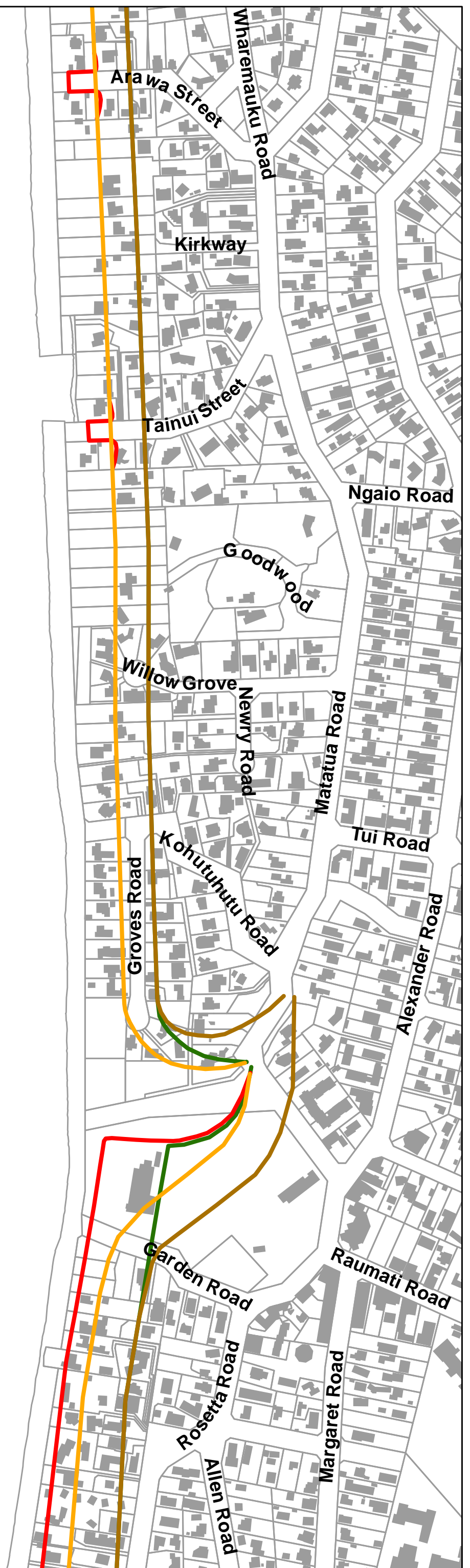


# Projected future shorelines

## RAUMATI BEACH

### Legend

- 50 Year Unmanaged
- 50 Year Managed
- 100 Year Unmanaged
- 100 Year Managed Inlets

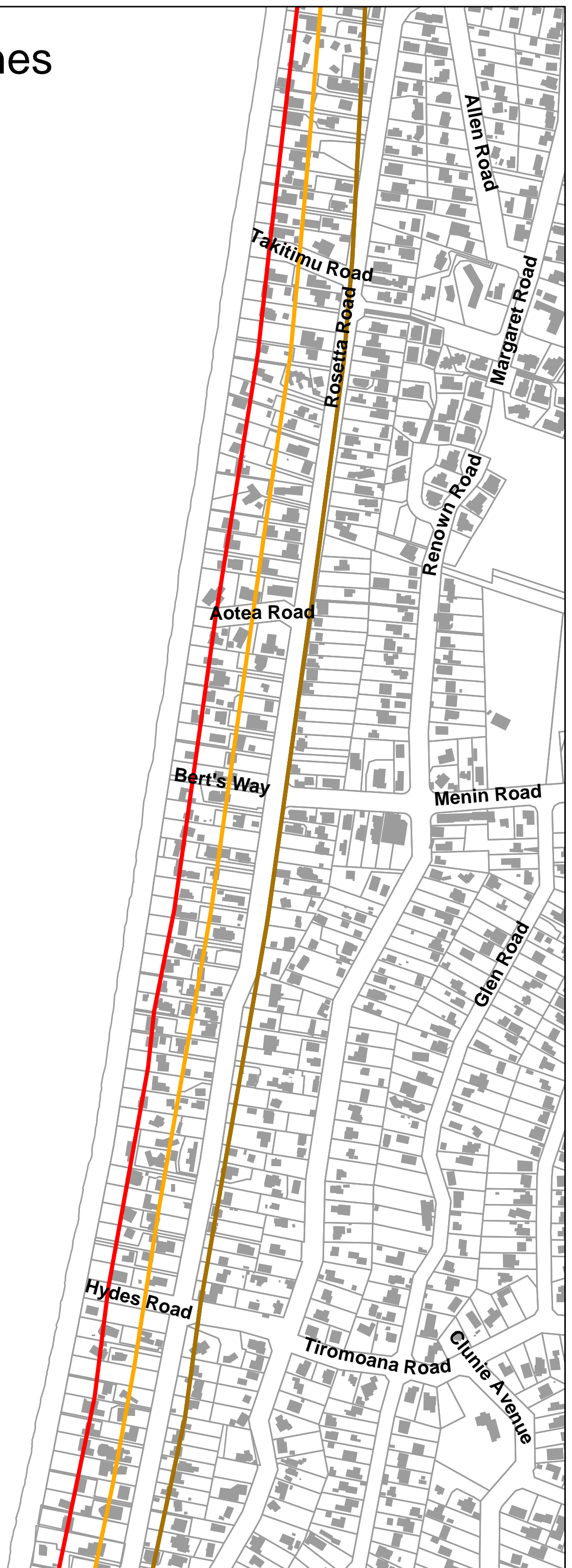


# Projected future shorelines

## SOUTH RAUMATI BEACH

### Legend

- 50 Year Unmanaged
- 50 Year Managed
- 100 Year Unmanaged
- 100 Year Managed Inlets

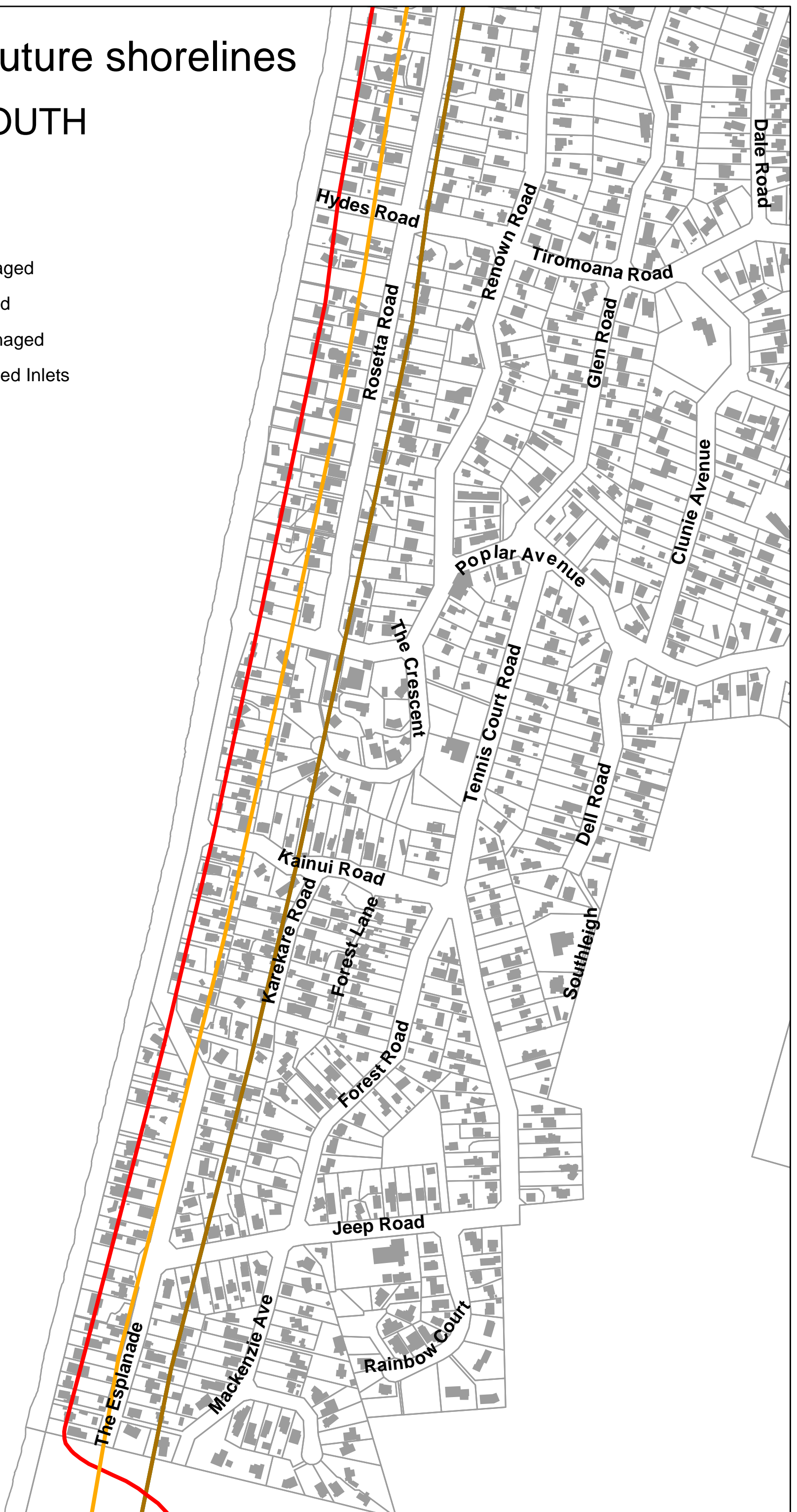


# Projected future shorelines

## RAUMATI SOUTH

### Legend

- 50 Year Unmanaged
- 50 Year Managed
- 100 Year Unmanaged
- 100 Year Managed Inlets

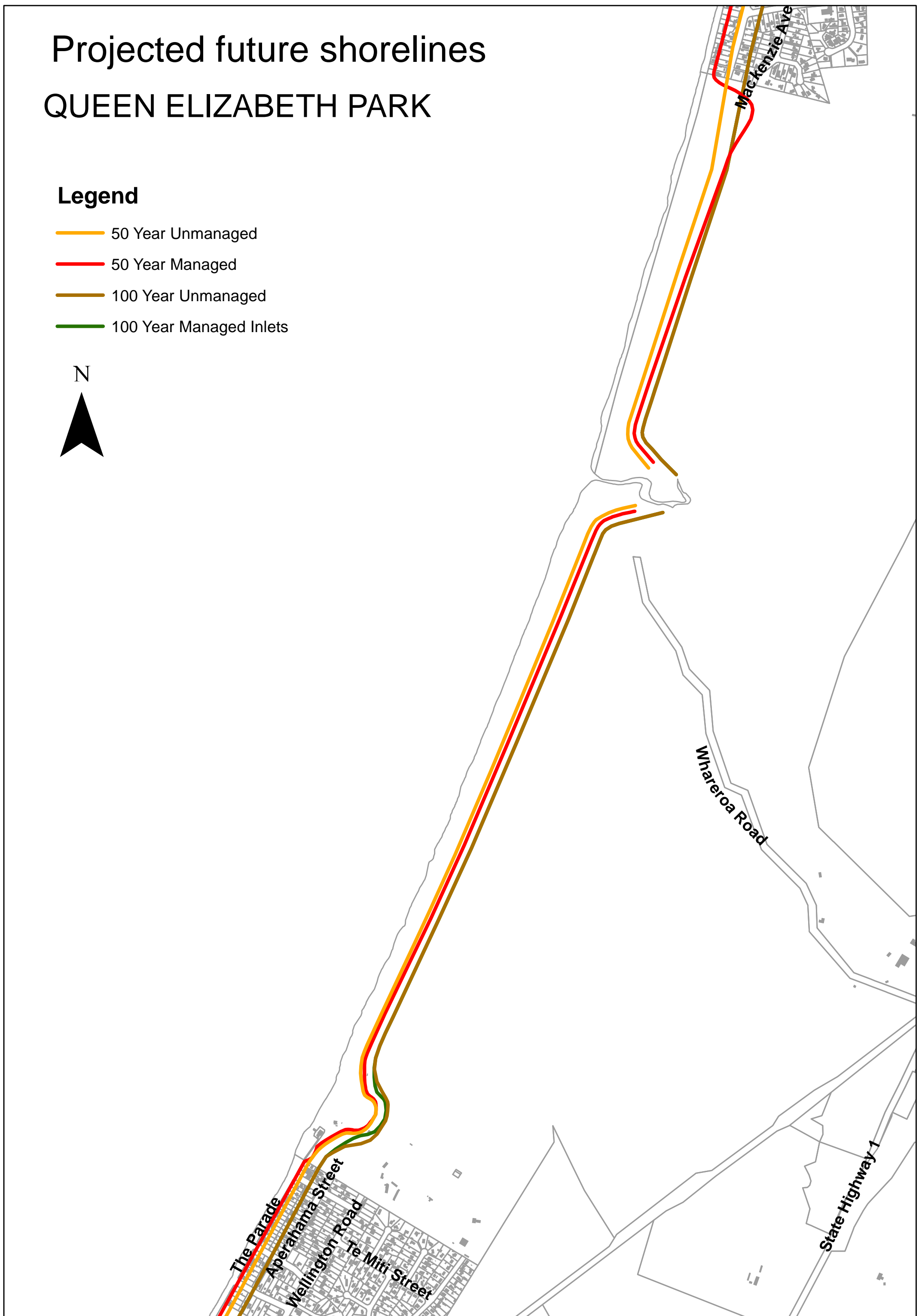


# Projected future shorelines

## QUEEN ELIZABETH PARK

### Legend

- 50 Year Unmanaged
- 50 Year Managed
- 100 Year Unmanaged
- 100 Year Managed Inlets



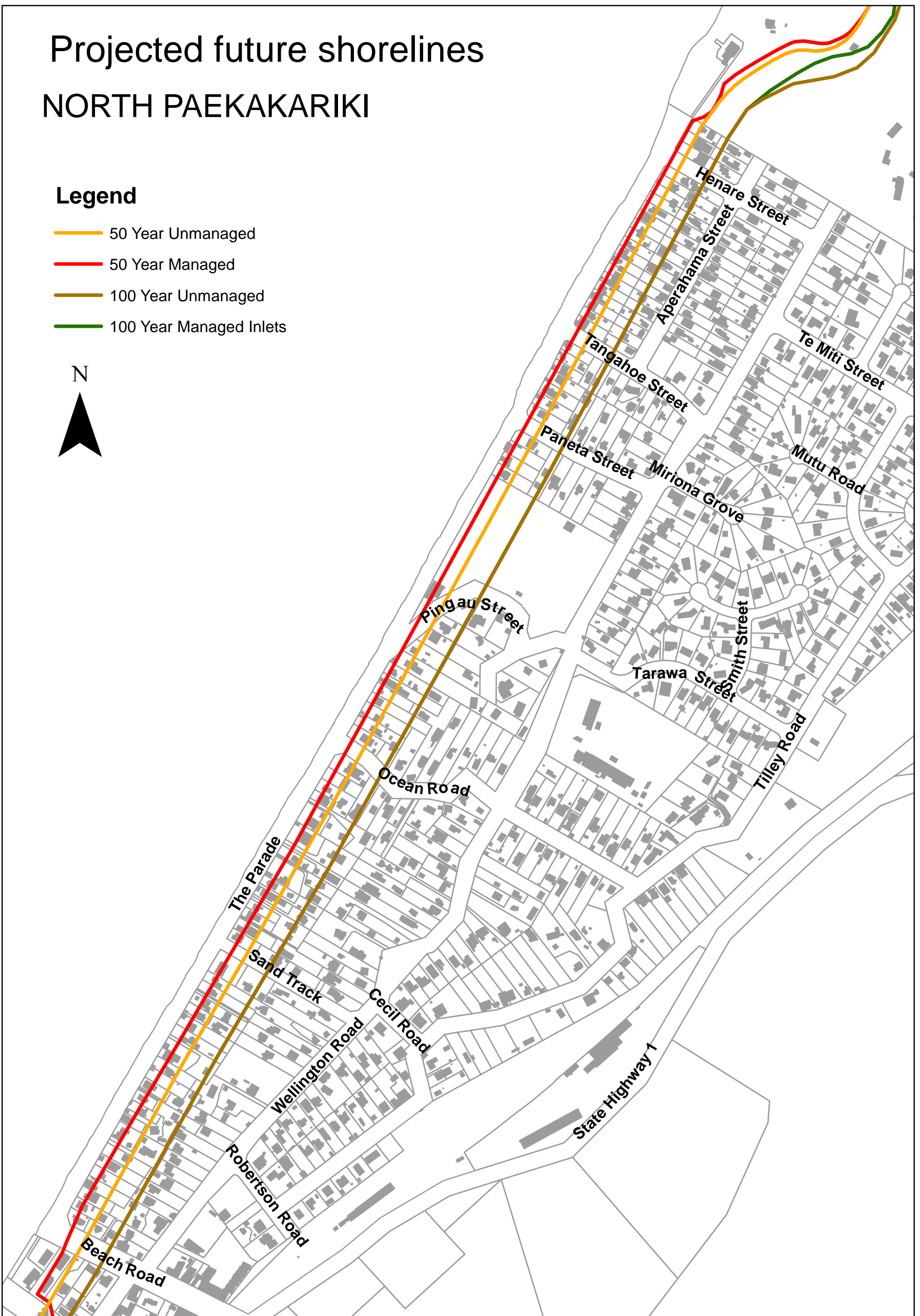


# Projected future shorelines

## NORTH PAEKAKARIKI

### Legend

- 50 Year Unmanaged
- 50 Year Managed
- 100 Year Unmanaged
- 100 Year Managed Inlets



# Projected future shorelines

## SOUTH PAEKAKARIKI

### Legend

- 50 Year Unmanaged
- 50 Year Managed
- 100 Year Unmanaged
- 100 Year Managed Inlets

