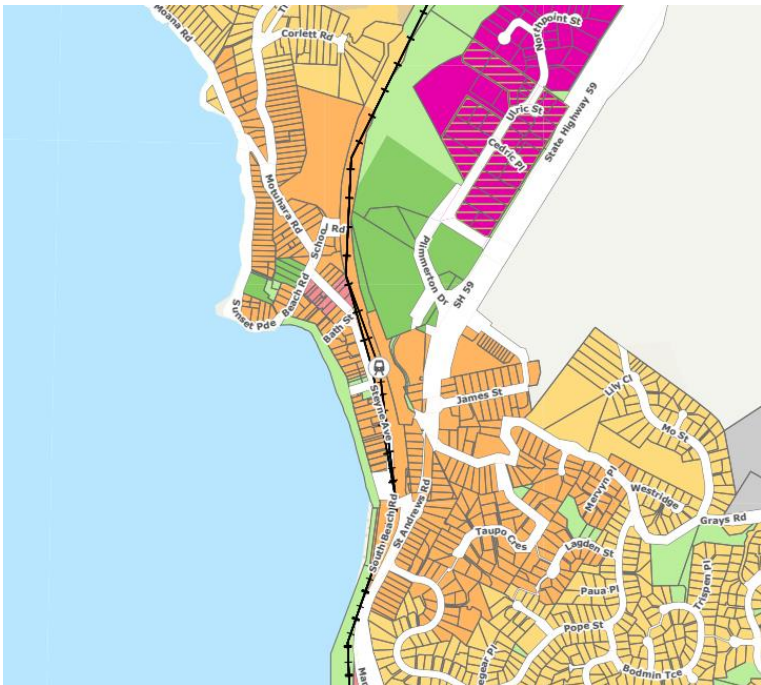


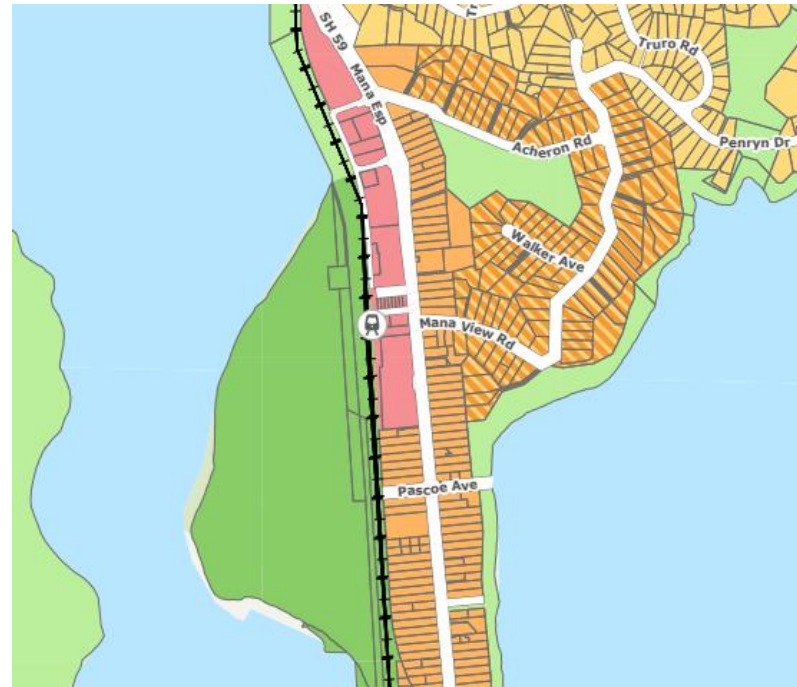
Gradients of hill streets in the broader Mana/Camborne/South Plimmerton area

PANEL REQUEST Q55: Please identify the gradients of the hill streets in the broader Mana/Camborne/South Plimmerton area where HDRZ is recommended and compare those gradients with the additional areas Kāinga Ora (in the evidence of Mr Rae) suggests be upzoned HDRZ?



South Plimmerton/Camborne

Extracts from Mr Rae's maps



Mana/Camborne

Location and measured length	Gradient within PCC's proposed HDZ catchment	Gradient in Kāinga Ora's proposed extension to the HRZ
South Plimmerton		
Motuhara Road (242m)	1 in 11	-
Mana/Camborne		
Grays Road (348m)	1 in 12.4	-
Taupo Crescent (358m)	1 in 10.2	-
Pope Street (210m)	1 in 7.8	-
Acheron Road (154m)	-	1 in 8.1
(Lower) Mana View Road (170m)	-	1 in 8.1
(Upper) Mana View Road (171m)	-	1 in 11.4

Summary analysis

The table above is a copy of that in the written reply and lists the measurements of streets described on the following pages. Contour data and distances have been measured from PCC's GIS system.

South Plimmerton: Motuhara Road

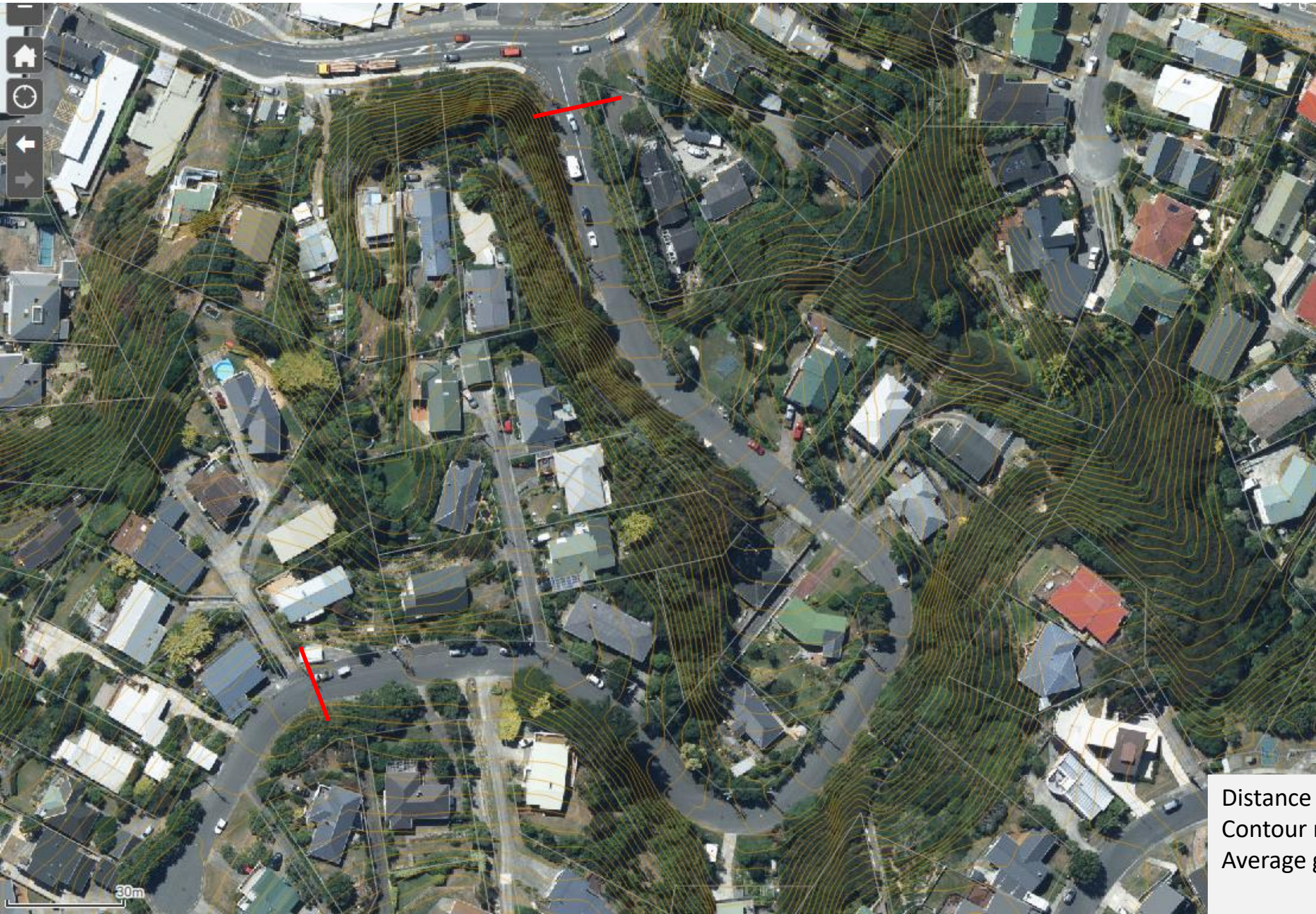
(In PCC's Proposed HRZ)



Distance along indicated street	242m
Contour rise	22m
Average gradient	1 in 11



Distance along indicated street	348m
Contour rise	28m
Average gradient	1 in 12.4



Distance along indicated street	358m
Contour rise	35m
Average gradient	1 in 10.2



Distance along indicated street	210m
Contour rise	27m
Average gradient	1 in 7.8



Distance along indicated street	154m
Contour rise	19m
Average gradient	1 in 8.1





Distance along indicated street	171m
Contour rise	15m
Average gradient	1 in 11.4