

Cost Benefit Disclosure Statement

Site 10 – Old SH1 (Waerenga Road and Rahui Road)	Length of Road: 630 m
AADT: 8,373 vehicles per day	Existing Speed Limit: 50 km/h
Class of Road: Urban Street with significant levels of pedestrian and/or cycle activity	Proposed Speed Limit: 40 km/h

Safety:

There have been two injury crashes at this site over the last 5 years. The mean operating speed is expected to decrease by 3.7 km/h, resulting in a potential decrease of 0.09 expected injury crashes per year.

Travel Time:

It is expected that the mean operating speed will reduce by 3.7 km/h, and there will be an increase in travel time of 4.9 seconds for each vehicle and an estimated increase of 4,139 hours for all traffic over a year.

Implementation Cost

The implementation cost of this speed limit change is estimated to be \$7,436.

Summary

WSP prepared this statement based on Land Transport Rule: Setting of Speed Limits 2024, as of 15 January 2025, as per clause 3.3, which considers crash impacts, travel time impacts, and implementation costs (as shown in Table 1 below), for a proposed posted speed limit on this section of the old State Highway 1 of 40 km/h.

Table 1 - Travel time and Crash Impacts

Site	Existing Injury Crashes (5 years)	Expected Crash Change (per year)	Mean Speed Change	Travel Time Change Per User (seconds)	Travel Time Change Per Year (hours)
Old SH1 (Waerenga Road and Rahui Road)	2	-0.09 injury crashes	-3.7 km/h	4.9 seconds	4,139 hours