

10 Conclusions/Recommendations

The key conclusions of this study are:

- Traffic volumes are expected to increase over the next 20 years or so at a rate above that seen historically, reflecting expected rapid population growth in the Taupo District. The staged construction of the proposed Eastern Taupo Arterial will have different effects on traffic volumes on each subsection of the route.
- The proportion of heavy vehicles in the traffic stream is expected to remain fairly constant.
- The level of service (LOS) on the study route is expected to be at LOS C or better until at least 2024.
- The seal width on the study route is generally below respective RDC and TDC guideline widths. The lack of seal width was identified as a major issue by many groups consulted for this study.
- The relatively straight and flat alignment of the study route means the alignment does not pose a constraint to passing opportunities.
- Some of the pavements in the Taupo District are relatively old, but are not necessarily showing significant signs of stress or deterioration.
- Several sections have been identified which have significant rutting and/or roughness.
- A large number of recreational and competitive cyclists use Broadlands Road, and this number is expected to increase.
- Broadlands Road has a high proportion of overtaking type crashes, but overall mid-block injury crash rates are comparable with national rates.

The main strategies for improving and upgrading the study route, to maintain a reasonable level of service and safety, are to:

- Rehabilitate pavements in accordance with RDC and TDC's respective Road Asset Management Plans, and the prioritised programme given in Appendix 2 of this report.
- Improve seal width along Broadlands Road, Settlers Road and Reporoa Road in conjunction with rehabilitation and renewal works, and as subsidised stand-alone cycling projects.
- Realign or ease low radius horizontal curves and/or improve warning signage at these curves where appropriate.
- Provide consistency along the route in terms of seal width, intersection layout, and signage.

Projects

The tables below describe the major projects considered for the study length, their estimated cost, indicative BCR, and identified positive contributions to the goals of the

NZTS and hence LTMA. These contributions are detailed further in Appendix 8 of this Report.

Project Name	Cost (\$K)	BCR	Contribution to NZTS Objectives
Settlers Road Curve Easing - RP 2,410-3,155	\$545	0.9	<ul style="list-style-type: none"> Safety and Personal Security Economic Development
Settlers Road Realignment - RP 5,065-5,590	\$411	0.8	<ul style="list-style-type: none"> Safety and Personal Security Economic Development

Table 43. Rotorua District Projects

Project Name	Cost (\$K)	BCR	Contribution to NZTS Objectives
Broadlands Road Curve Easing - RP 5,185-5,420	\$121	2.9	<ul style="list-style-type: none"> Safety and Personal Security
Broadlands Road Curve Easing - RP 11,485-11,700	\$138	1.5	<ul style="list-style-type: none"> Safety and Personal Security
Broadlands Road Curve Easing - RP 23,235-23,470	\$152	1.9	<ul style="list-style-type: none"> Safety and Personal Security
Broadlands Road Southbound Climbing Lane - RP 6,940-9,240	\$1,472	1.4	<ul style="list-style-type: none"> Safety and Personal Security Economic Development
Broadlands Road Cycle Lane/Shoulder Widening - RP 0-3,300	\$327	1.6	<ul style="list-style-type: none"> Safety and Personal Security Public Health Environmental Sustainability
Broadlands Road Cycle Lane/Shoulder Widening - RP 3,300-5,300	\$459	2.0	<ul style="list-style-type: none"> Safety and Personal Security Public Health Environmental Sustainability
Broadlands Road Cycle Lane/Shoulder Widening - RP 5,300-9,700	\$952	1.7	<ul style="list-style-type: none"> Safety and Personal Security Public Health Environmental Sustainability
Broadlands Road Cycle Lane/Shoulder Widening - RP 9,700-16,100	\$1,337	1.8	<ul style="list-style-type: none"> Safety and Personal Security Public Health Environmental Sustainability
Broadlands Road Cycle Lane/Shoulder Widening - RP 16,100-19,900	\$889	1.5	<ul style="list-style-type: none"> Safety and Personal Security Public Health Environmental Sustainability
Broadlands Road Cycle Lane/Shoulder Widening - RP 19,900-24,500	\$979	2.1	<ul style="list-style-type: none"> Safety and Personal Security Public Health Environmental Sustainability

Table 44. Taupo District Projects