

SPEED LIMIT REVIEW CHECKLIST FORM

RED TEXT = Engineer undertaking SLR to complete
 GREEN TEXT = Responsible Officer to complete

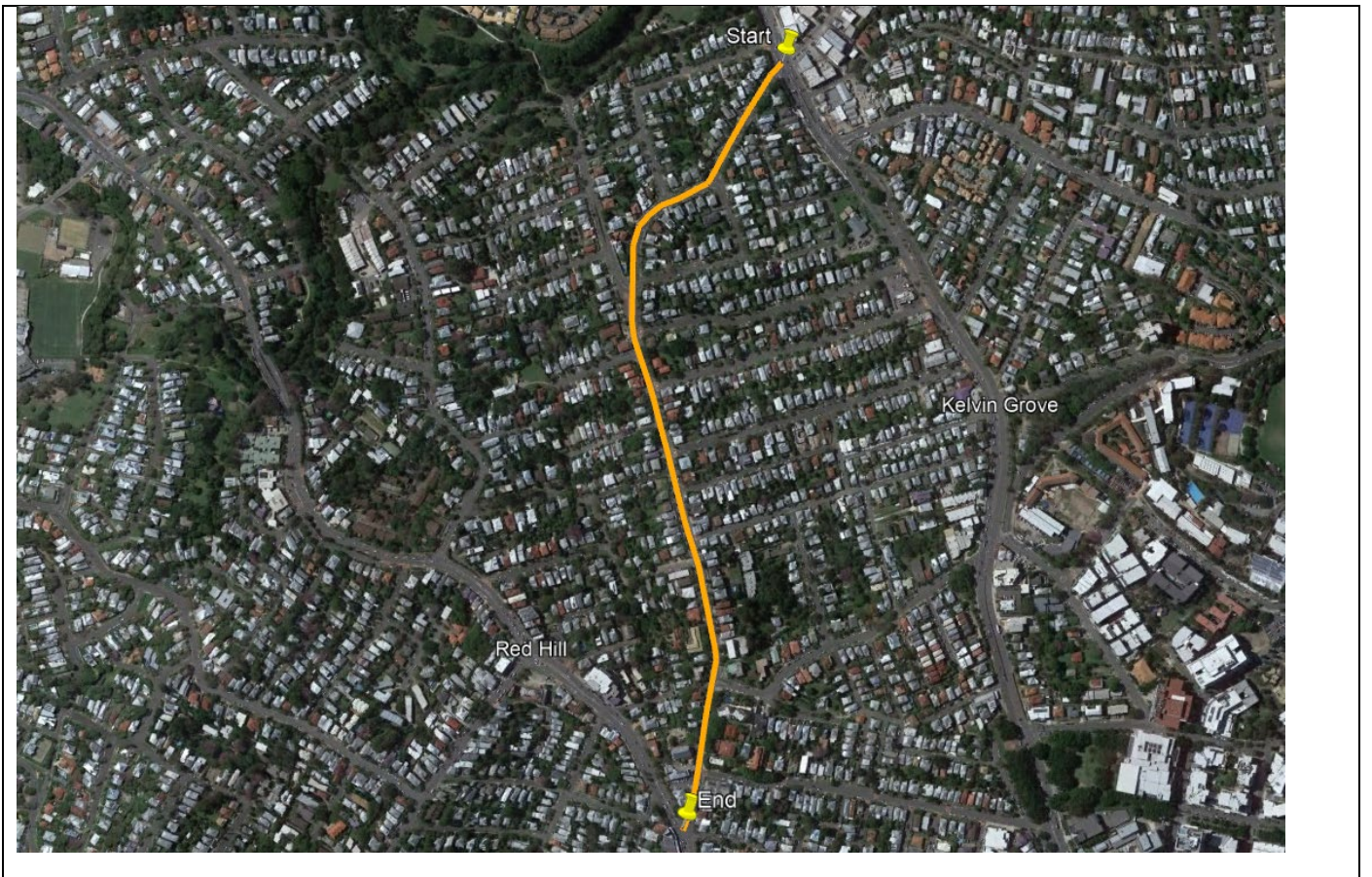
SITE DETAILS

Road Authority: Department of Transport and Main Roads District Date of Assessment: 14/10/22
 Local Government Agency Assessor: John Smith

Road Name: Royal Road LGA Name: Capital City Council
 Road Number (if applicable): TMR District Name: Metroplis Region
 Suburb: Orange Hills/Apple Orchard Reference: 221014 Royal Road – Entire

	Location or Reference Point	Chainage or Distance	GPS Coordinates (decimal degrees)	
			Latitude	Longitude
Start	Apple Orchard Road	0	-27.444639	153.007661
End	Gas Works Road	1.21	-27.454686	153.006815

Existing Speed Limit (km/h): 60 Segment Length (km): 1.21 Traffic Volume (vpd): 8,750
 Aerial Imagery of Speed Zone: Pedestrian Volume (ppd): 768



STAGE 1 – NEED FOR REVIEW IDENTIFIED?

Detail circumstances that lead to a speed limit review being requested (QRSTUV GSM Section 3.5.1):

Community request to reduce speed due to increased pedestrian movements.

Desktop Review - Detail circumstances that require the need for a full speed limit review to be undertaken:

Crash rate for link appears to have increased since last speed limit review.

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STAGE 2 – CRITERIA BASED SPEED LIMIT (CBSL) ASSESSMENT

1. Is the road segment a foreshore? *Refer to QRSTUV GSM Section 4.3.1 for definition of foreshore*
 No – go to Question 2
 Yes – refer to QRSTUV GSM Section 4.3.1 and go to Stage 6 (Other considerations)
2. Is the road considered a car park or access driveway?
 No – go to Question 4
 Yes – go to Question 3
3. In the car park, are traffic calming devices present?
 No – adopt 20km/h speed limit and go to Stage 6 (Engineer Recommendation)
 Yes – adopt 10 km/h speed limit and go to stage 6 (Other considerations)
4. Is the road segment a Shared Zone? *Refer to QRSTUV GSM Section 4.3.2 for definition of Shared Zone*
 No – go to Question 5
 Yes – refer to Section 4.3.2 and go to Stage 6 (Other considerations)
5. Is the road unsealed or have a narrow seal? *Refer to QRSTUV GSM Section 4.3.3 for definition of unsealed road or road with a narrow seal.*
 No – go to Question 6
 Yes – refer to QRSTUV GSM Section 4.3.3 and go to Stage 6 (Other considerations)
6. Is the speed zone a High Active Transport User Area (HATUA)? *Refer to QRSTUV GSM Section 4.3.4 for definition of HATUA*
 No – go to Question 7
 Yes – refer to QRSTUV GSM Section 4.3.4 and go to Stage 6 (Other considerations)
7. Is the speed zone an Urban Local / Access Street? *Refer to QRSTUV GSM Section 4.3.5 for Urban Local / Access Street definition*
 No – go to Question 8
 Yes – refer to QRSTUV GSM Section 4.3.5 and go to Stage 6 (Other considerations)
8. Is the speed zone considered to be a footpath or shared path with a different posted speed to the road? *Refer to QRSTUV GSM Section 4.3.6 for Footpath or shared path speed zones definition*
 No – CBSL do NOT apply, go to Stage 3 (Risk Assessed Speed Limit) and Stage 4 (Speed Data Speed Limit)
 Yes – refer to QRSTUV GSM Section 4.3.6 and go to Stage 6 (Other considerations)

STAGE 3 – RISK ASSESSED SPEED LIMIT (RASL) ASSESSMENT

Crash Risk Rating (CRR)					Infrastructure Risk Rating (IRR)		
DCA Group	Description	(L) FSI Index	(H) FSI Index	No. Casualty Crashes	Road Attribute	Category	
1	Intersection, from adjacent approaches	0.46	0.73	1	Road stereotype	Two lane undivided (3.7)	
2	Head-on	0.85	1.44		Alignment	Curved (1.5)	
3	Opposing vehicles, turning	0.53	0.84		Sealed shoulder width	Wide Shoulder	
4	Rear-end	0.25	0.37	2	Lane width	Medium ⁽¹⁾	
5	Lane change	0.34	0.42	4	Roadside hazard risk - left side	Moderate (1.43)	
6	Parallel lanes, turning	0.36	0.59		Roadside hazard risk - right side	Moderate (1.43)	
7	U-turn	0.39	0.57		Land use	Urban residential (3.0)	
8	Entering roadway	0.38	0.71	1	At-grade intersection density	5-10/km (2.6)	
9	Overtaking, same direction	0.50	0.65		Access density	20+/km (1.3)	
10	Hit parked vehicle	0.43	0.81		Traffic volume	6-12,000vpd (2.2) (NA)	
11	Hit train	1.07	0.90		IRR Score	1.91	
12	Pedestrian	0.60	0.98				
13	Permanent obstruction on carriageway	0.28	0.53		Road Risk Metric (RRM)		
14	Hit animal	0.53	0.55		CRR Band	Medium	
15	Off carriageway, on straight	0.54	0.70		IRR Band	Medium	
16	Off carriageway, on straight, hit object	0.60	0.66	1	RRM	Medium	
17	Out of control, on straight	0.55	0.73	1			
18	Off carriageway, on curve	0.65	0.59		Road Classification		
19	Off carriageway, on curve, hit object	0.65	0.71	2	Environmental Context Class	Urban	
20	Out of control, on curve	0.67	0.66		Functional Classification	Trunk Collector	
21	Other	0.51	0.63				
Est. FSI per 10⁸ VKT		5.15 (FSI Index * Crashes) 365*5*7,850 (Volume) * 1.21(Length) / 100,000,000= 26.65			Risk Assessed Speed Limit (km/h)		50
Crash Data Period (5 years)							
From (inclusive):		1/1/2017					
To (inclusive):		31/12/2021					

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STAGE 6 – OTHER CONSIDERATIONS

Are there other site specific circumstances that may apply or exist that could affect the selection of an appropriate speed limit? (refer to *QRSTUV GSM Section 7* for relevant guidance, sub-sections as per below):

	Yes	No
Is there school activity in the speed zone? (<i>Section 7.1</i>)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Is a variable speed limit sign appropriate? (<i>Section 7.2</i>)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Is a dual speed zone required? (<i>Section 7.3</i>)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Is the road a traffic carrying road through strip-shopping centres or commercial area? (<i>Section 7.4</i>)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Is the road a speed zone on an arterial road through a rural town? (<i>Section 7.5</i>)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Is there a high crash rate? (<i>Section 7.6</i>)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Is there a high crash rural intersection? (<i>Section 7.7</i>)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Is the road being considered for a 110km/h speed limit? (<i>Section 7.8</i>)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Does the road have a rough surface? (<i>Section 7.9</i>)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Is there a temporary speed limit being proposed? (<i>Section 7.01</i>)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Is the speed limit for a roundabout? (<i>Section 7.11</i>)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Is the road mountainous? (<i>Section 7.12</i>)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Is the road a service road? (<i>Section 7.13</i>)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Is there a signalised intersection on the road section? (<i>Section 7.14</i>)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Is the road section an on or off ramp? (<i>Section 7.15</i>)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Is the road section a laneway? (<i>Section 7.16</i>)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Is the speed limit proposed to be offset? (<i>Section 7.17</i>)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Are there other circumstances to consider? (<i>Section 7.18</i>)	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Assessed Speed Limit (km/h): 50

Additional comments related to other considerations (if required, particularly noting if there is more than one speed limit, such as for a school zone, variable speed limits, dual speed limits or path speed limits):

..... **While there is no school zone, there is a fair amount of school related traffic and pedestrians using this road. It is felt though that no further action is required with the proposed lower speed, consider upgrading the existing mid block pedestrian refuge, and provision for pedestrians at the signalised intersections at each end of the road. The road has signalised intersections at each road, although as they are on existing 60km/h roads, there was not deemed any concern with these signalised intersections.**

STAGE 7 – ENGINEER RECOMMENDATION

SUMMARY OF TECHNICAL ASSESSMENTS

Stage 2 – CBSL Apply (Y/N): N	if Yes, Details:
Stage 3 – RASL Speed Limit (km/h): 50	Safety Works Required (Y/N): N
Stage 4 – SDSL Speed Limit (km/h): 50	
Stage 5 – Considered Speed Limit (km/h): 50	Speed Management Activities Recommended: (Y/N): N
Stage 6 – Assessed Speed Limit (km/h): 50	More than one Speed: (Y(km/h)/N): N
Stage 7 – Recommended Speed Limit (km/h): 50	More than one Speed: (Y(km/h)/N): N

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ENGINEERS RECOMMENDATION:

Does the recommended speed limit align with the technical assessments assessed speed limit summarised above (Y/N): ...**Y**.....

If Yes, provide details of any accompanying works or 'context for suitability of the (QRSTUV GSM Section 8) recommended speed limit (if applicable):

The RASL, due to both the CRR and IRR appears to indicate a Medium RRM score for this Trunk Collector Road. The SDSL also indicates that drivers are driving below the existing 60km/h. This would indicate that adoption of a 50km/h speed limit would appear appropriate without any additional measures necessary.

There is a midblock pedestrian refuge that was observed to be well utilised. It may be worth considering if this would warrant investigation to be made into a zebra or wombat crossing.

If No, detail alternate recommendation and provide reasons / justification of your (the Engineers) recommended speed limit:

SPEED LIMIT REVIEW - RECOMMENDED SPEED LIMIT (km/h): **50**

RESPONSIBLE OFFICER'S ACCEPTANCE OF ENGINEERS RECOMMENDATION:

- Do you (the Responsible Officer) accept the speed limit review and engineer recommendations undertaken by the Engineer:
 - No – return to suitably qualified Engineer to repeat Stages 1 - 6 with justification
 - Yes – submit to SMC

Name: **Jane Smith**

Position: **Manager (Road Operations)**

Signature: **Signature Here**

Date: **28/10/22**

NOTE: In accepting the Engineering Recommendation the responsible officer accepts that the speed limit review has been completed in accordance with the process outlined within the TMR's QRSTUV GSM, by a certified engineer experienced in undertaking speed limit reviews and general road safety matters. It is not for the Responsible Officer to question the Engineering Recommendation if the speed limit review has been conducted appropriately.

If No, detail why the speed limit review was not accepted (if required):

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STAGE 8 – APPROVAL AND IMPLEMENTATION

SPEED MANAGEMENT COMMITTEE FINDINGS:

SMC Endorse Engineers' Recommendations (Y/N): Y Date of SMC: 14/11/22

If No, provide justification:

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NOTE: Attach documented findings from the Speed Management Committee to this Form

Where the SMC has **NOT** endorsed the recommendations of the engineer, the responsible officer shall require the engineer to reconsider the recommendation (*refer to QRSTUV GSM Section 9.2*).

RESPONSIBLE OFFICER APPROVAL:

Approved Speed Limit (km/h): 50 Name: Jane Smith
Additional Approved Works (if applicable): Position: Manager (Road Operations)
..... Signature: Signature Here
..... Date: 28/11/22

NOTE: The responsible officer shall provide a copy of the documentation that supports this Speed Limit Review to either through the approved online system or email to speedlimitreview@tmr.qld.gov.au.

STAGE 9 – MONITOR & EVALUATE

Will the speed limit or speed environment be altered as a result of the recommendations contained within this speed limit review?

- Yes – program post-implementation to occur within 3 months following implementation and schedule routine review in 5 years or sooner
- No – schedule routine review in 5 years or sooner

Date of Next Review: 28/2/23

MISCELLANEOUS

Enhanced enforcement of this site by QPS has been requested by reporting the outcome of this speed limit review to:

- Local Traffic Advisory Committee (TAC)
- Local Speed Management Committee (SMC)
- Regional QPS Traffic Co-Ordinator

Reported by:
Position:
Date:

Additional Comments (if required):

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