

### MAINTENANCE RESPONSE LEVELS OF SERVICE

Table 3a – Maintenance Response Levels of Service Maintenance Inspection interval								
Intervention Level	Response Time for Routine Maintenance Only (Days)						Routine Maintenance	
	Class 1	Class 2	Class 3	Class 4	Class 5			
					Property Access			
	Regional Road	Arterial Road	Collect or Road	Resident Access Road	Gravel	Formed		
<b>Unsealed Road and Shoulders - Inspection and Maintenance</b>								
<b>Potholes</b>								
>300mm diameter and 50mm deep								<i>Repair (patch) potholes</i>
Not more than 1 pothole per 5 square metres of road surface	N/A	N/A	45	45	45	180	365	<i>Grade to repair potholes</i>
<b>Rutting</b>								
>50mm deep ruts/depression under a 2m straight edge								<i>Repair/regulate ruts</i>
Concentration, not to exceed 50% in 100 square metres of road surface	N/A	N/A	365	365	365	365	365	<i>Grade to repair ruts</i>
<b>Crossfall</b>								

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<i>Crossfall to be not less than 1 in 20 on any 50m length</i> <i>Maximum stone 6%</i> <i>Surface to be free draining</i>	N/A	N/A	365	365	365	365	365	<i>Grade to ensure surface is free draining and not ponding water.</i> <i>Minimum width to be 5 metres.</i>

Corrugations								
<i>Corrugations &gt;30mm</i>	N/A	N/A	45	45	45	365	365	<i>Grade to remove corrugations greater than 30 mm depth</i>
Surface Scour								

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<i>Surface scouring to depth of greater than 50 mm not to exceed 50 square metres on any section of road.</i>	N/A	N/A	45	45	45	45	N/A	<i>Grade and compact to rectify scoured areas. Resheet if necessary</i>
<b>Loose Material</b>								
<i>No build up of loose material greater than 60 mm depth. No area of 100 square metres or more to have an average depth of loose material exceeding 30 mm depth.</i>	N/A	N/A	45	45	45	N/A	N/A	<i>Grade and compact to ensure no build up of loose material</i>

<b>Loss of Material</b>
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					Gravel	Formed	Unformed	
<p><i>Gravel pavement to have minimum depth of 30 mm of gravel.</i></p> <p><i>Area where surface material has been lost not to exceed 50 square metres.</i></p> <p><i>Not more than 5% of total road surface to have lost surface material.</i></p>	N/A	N/A	365	365	45	N/A	N/A	<p><i>Grade to ensure adequate depth of surface material.</i></p> <p><i>Resheet if necessary</i></p> <p><i>Repair as required</i></p>
<b>Sealed Road - Inspection and Repair</b>								
<b>Pot holes</b>								
<i>&gt;300mm diameter and 50mm deep</i>	14	14	30	30	30	N/A	N/A	<i>Patch to repair pot holes more than 50 mm depth</i>
<b>Edge Failures</b>								
<i>Edge break of &gt;100mm wide</i>	30	30	90	180	180	N/A	N/A	<i>Repair as required</i>
<i>Edge drop off of &gt;50mm</i>								

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	Regional Road	Arterial Road	Collect or Road	Resident Access Road	Gravel	Formed	Unformed	
<i>Major pavement defects that would cause serious damage or injury</i>	5	5	14	14	14	N/A	N/A	<i>Repair as required to make safe</i>
<b>Rutting</b>								
<i>&gt;50mm deep ruts/depression under a 2m straight edge</i> <i>Concentration, not to exceed 50% in 100 square metres of road surface</i>	365	365	365	365	365	N/A	N/A	<i>Patch to remove rutting deeper than 50 mm as part of programmed maintenance works.</i>
<b>Cracking</b>								
<i>Crocodile cracking 200 m<sup>2</sup> max. 2mm wide</i>	90	90	90	90	90	N/A	N/A	<i>Programmed maintenance works</i>
<b>Stripping of Aggregate</b>								
<i>Seal stripping with &gt;30% stone loss</i>	30 14	30 14	60 30	60 30	60 14	N/A	N/A	<i>Reseal as necessary</i>

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Bleeding of Bitumen								
<i>Bleeding area &gt;5m<sup>2</sup></i>	2	2	2	2	2	N/A	N/A	<i>Blind with sand or fine aggregate &amp; light rolling.</i>
Road Marking								
Painted Line Markings								
<i>50% of line marking visible in any 300 m lane length</i>	365	365	365	365	365	N/A	N/A	<i>Repaint road line markings, place interim warning signs as part of programmed maintenance works.</i>
<i>50% of transverse marking not visible</i>								
Raised Pavement Markers								
<i>&gt;3 consecutive markers missing or not reflecting on curves or barrier lines</i>	30 365	60 365	60 365	60 365	60 365	N/A	N/A	<i>Replace raised road markers as required</i>

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Road Signs and Roadside Furniture								
Road Signs - Warning (W), Regulatory (R), Guide (G)								
<i>Sign/sign face missing</i>	<i>W 7</i> <i>R 7</i> <i>G 7</i>	<i>W 14</i> <i>R 14</i> <i>G 14</i>	<i>W 30</i> <i>R 30</i> <i>G 30</i>	<i>W 60</i> <i>R 60</i> <i>G 60</i>	<i>W60</i> <i>R 60</i> <i>G 60</i>	<i>W60</i> <i>R 60</i> <i>G 60</i>	<i>W60</i> <i>R 60</i> <i>G 60</i>	<i>Replace Road signs to be in accordance with AS 1732</i>
<i>30% damage to sign face</i>								
<i>Sign illegible at night using low beam</i>								<i>Replace</i>
<i>Post deteriorated</i>								
<i>&gt;30% of sign face dirty or marked</i>	<i>45</i> <i>90</i>	<i>90</i> <i>180</i>	<i>90</i> <i>180</i>	<i>90</i> <i>180</i>	<i>90</i>	<i>90</i>	<i>90</i>	<i>Repair or clean signs as necessary</i>
<i>Bolts missing or loose, post misaligned,</i>								<i>Repair as necessary</i>
Guide Posts								

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<i>3 consecutive posts missing on straights. 2 consecutive posts missing on curves.</i>	30	60	180	270	365	365	365	<i>Replace damaged and missing guide posts</i>
<i>Guide posts to be clean and easily visible</i>	90	180	180	270	365	365	365	<i>Replace damaged and missing guide posts</i>
<b>Guardrails</b>								
<i>Damaged guardrails</i>	7	7	14	30	60	60	60	<i>Repair to make safe. Full repair to occur at a later date.</i>
<i>Guardrails to be in correct position.</i>	90	180	180	180	180	180	180	<i>Repair or replace defective sections</i>
<i>Post supports to be in good condition and soundly founded</i>								
<i>End sections to be correctly positioned and braced as designed.</i>								

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					Gravel	Formed	Unformed	
<i>No weak or protruding sections.</i>								
<b>Reflective Markers</b>								
<i>Reflective markers correctly attached, clean and readily visible at night.</i>	30 90	60 180	180	270 180	365 180	365	365	<i>Clean dirty reflective markers. Replace damaged or missing markers</i>

Roadside Drainage								
Table, Cut Off and Side Drains								
<i>50% reduction in drain capacity</i> <i>Scour depth &gt;300mm</i>	30	30	60	60	30	30	30	<i>Clean and remove debris as necessary.</i>
<b>Culverts</b>								
<i>At least 75% of the culvert waterway to be free to carry water</i> <i>Entry and exit points to be free of debris and silt build up</i>	180	180	180	180	180	180	180	<i>Clean and remove debris as necessary</i>

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<i>Culvert/pit failure that has potential to cause hazard on roadway.</i>	30	60	90	180	365	365	365	<i>Make safe for repair at a later date.</i>
<b>Trees, Branches and Bushes</b>								
<b>Obstructions</b>								
<i>Fallen trees, branches and bushes causing an obstruction or hazard</i>	1	1	1	1	1	1	1	<i>Act on report or first sighting</i>
<b>Safety Hazards</b>								
<i>Overhanging branches and damaged trees or limbs</i>	1	1	1	1	1	1	1	<i>Act on report or first sighting</i>
<b>Visibility Obstructing Vegetation</b>								
<i>Vegetation that interferes with safe sight distances</i>	30	30	30	90	90	90	90	<i>Remove obstructing vegetation</i>

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<b>Livestock on Road</b>								
<i>Act on report or first sighting</i>	1	1	1	1	1	1	1	<i>Livestock to be removed from road and returned to farm or impounded, Warning signs posted</i>

<b>Dead Animals</b>								
<i>Act on report or first sighting</i>	1	1	1	1	1	1	1	<i>Dead livestock or native animals to be removed from road and roadside</i>

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<b>Water on Road</b>								
<i>Act on report or first sighting</i>	1	1	1	1	1	1	1	<i>Place appropriate signs</i>
<b>Oil on Road</b>								
<i>Act on report or first sighting</i>	1	1	1	1	1	1	1	<i>Blind with sand</i>

### Asset Inspection

Inspections of assets are required not only to pick up defects but also to establish the general condition of assets.

The purpose of routine inspections is to identify:

- (a) those asset features that are at or exceeding the intervention level, or
- (b) those features approaching the intervention level and likely to exceed the intervention level prior to the next scheduled inspection..

It is not practicable to carry out a single inspection run and look at every asset. Some asset conditions are much more critical than others and therefore need to be inspected more often. Accordingly a schedule of inspections has been developed which defines several types of inspections and their frequency.

<b>Table 3b - Road &amp; Corridor Asset Inspections Schedule for Rural and Urban Roads</b>					
<b>Asset Type or Defect</b>	<b>Road Category</b>				
	<b>Class 1</b>	<b>Class 2</b>	<b>Class 3</b>	<b>Class 4</b>	<b>Class 5</b>
	<b>Regional Road</b>	<b>Arterial Road</b>	<b>Collector Road</b>	<b>Residence Access Road</b>	<b>Property Access</b>
<b>Pavement Maintenance</b>					
<i>Potholes/Delaminations</i>	<i>Monthly</i>	<i>Every 3 months</i>	<i>Every 3 months</i>	<i>Once every 6 months</i>	<i>Once per year</i>
<i>Shoving, Rutting, Depressions</i>					
<i>Cracks</i>					
<i>Edge Repair</i>					
<i>Surface defects</i>					
<b>Corridor Asset Maintenance</b>					
<i>Vegetation control</i>	<i>Once per month</i>		<i>Every 2 months</i>		
<i>Sight distance at intersections</i>	<i>Once every 3 months</i>		<i>Once every 6 months</i>		
<i>Rest areas</i>	<i>Once per week</i>		<i>Once per fortnight</i>		
<i>Vacant properties and stockpile sites</i>	<i>Once every 3 months</i>				
<i>Litter</i>	<i>Once per month</i>				
<i>Graffiti and poster removal</i>	<i>Once per month</i>				
<i>Drainage pits</i>	<i>Sag Pits: Once per year</i>		<i>Sag Pits: 50% per year</i>		
	<i>Other pits: 50% per year</i>		<i>Other pits and stock grids: N/A</i>		
<i>Table drains</i>	<i>Once per year</i>				
<i>Kerb &amp; gutter</i>	<i>Once per year</i>				
<i>Median areas</i>	<i>Once per year</i>				
<i>Erosion &amp; sedimentation control devices</i>	<i>Every 6 months and after significant rain events</i>				
<i>Segment markers (Post or marked)</i>	<i>Once per year</i>				
<b>Traffic Facility Maintenance</b>					
<i>Missing signs, guideposts, reflectors and traffic devices</i>	<i>Monthly</i>	<i>Every 3 months</i>	<i>Every 3 months</i>	<i>Once every 6 months</i>	<i>Once per year</i>
<b>Traffic Facility Maintenance - Night Inspection</b>					
<i>Warning and Regulatory Signs</i>	<i>Twice per year during July/August and December/February</i>		<i>Once per year during July/August</i>		
<i>Guide Signs</i>					
<i>Safety Fence</i>					
<i>Guideposts and Reflectors</i>					
<i>Traffic Devices</i>					
<i>Transverse Roadmarking</i>					
<i>Linemarking</i>					
<i>Pavement Symbols</i>					
<i>Street Lighting</i>					
<i>Raised Pavement Markers</i>					

