

SCHEDULE 3 – DEFECT RISK MANAGEMENT RANKING

The levels of service required for assets specified in the Plan have been developed using the risk framework provided in AS4360:1999 - Risk Management.

The tables below are from AS/NZS 4360:1999 - Risk Management. They provide for an assessment of the likelihood of an event occurring against the consequence and have been used to develop the comparative risk rating for specific defects associated with Council's assets in order to establish maintenance priorities and desired levels of service.

| Likelihood | | Consequences | | | | |
|------------|----------------|---------------|-------|----------|-------|--------------|
| | | Insignificant | Minor | Moderate | Major | Catastrophic |
| | | 1 | 2 | 3 | 4 | 5 |
| A | Almost Certain | H | H | E | E | E |
| B | Likely | M | H | H | E | E |
| C | Possible | L | M | H | E | E |
| D | Unlikely | L | L | M | H | E |
| E | Rare | L | L | M | H | H |

AS/NZS 4360:1999 Risk Management – Qualitative Risk Analysis Matrix

E = extreme risk, detailed investigation and immediate action required.

H = high risk, senior management attention required, detailed investigation and action where practicable.

M = moderate risk, management responsibility must be specified, assessment of risk and management of issue through works or on-going monitoring.

L = low risk, manage by routine procedures, does not require immediate attention but requires assessment and on-going monitoring.

| Level | Description | Description |
|-------|----------------|---|
| A | Almost certain | Is expected to occur in most circumstances |
| B | Likely | Will probably occur in most circumstances |
| C | Possible | Might occur at some time |
| D | Unlikely | Could occur at some time |
| E | Rare | May occur only in exceptional circumstances |

AS/NZS 4360:1999 Risk Management – Qualitative Measures of Likelihood

| Rating | Description | Description |
|--------|---------------|--|
| 1 | Insignificant | No injuries, low financial loss |
| 2 | Minor | First aid treatment, medium financial loss |
| 3 | Moderate | Medical treatment, required, high financial loss |
| 4 | Major | Extensive injuries, major financial loss |
| 5 | Catastrophic | Death, huge financial loss |

AS/NZS 4360:1999 Risk Management – Qualitative Measures of Consequence

As some assets may contain multiple defects, it is important to understand the relative defect ranking, to determine which defect is the highest priority, based on the comparative risk. The table below highlights the comparative risk between the different defects for each asset group, based on the Risk Analysis Matrix within AS/NZ 4360:1999.

| ASSET | ASSET SURVEILLANCE MANUAL SECTION | DEFECT TYPE | LIKELIHOOD | CONSEQUENCE | RISK RATING |
|--|-----------------------------------|---|------------|-------------|-------------|
| CONSTRUCTED ROADS | 5.2.1 | Cracking - Crocodile | Possible | Moderate | High |
| | 5.2.2 | Cracking – Linear | Likely | Minor | High |
| | 5.2.3 | Damaged Local Area Traffic Management (LATM) Devices | Possible | Moderate | High |
| | 5.2.4 | Edge Breaks | Possible | Moderate | High |
| | 5.2.5 | Edge Drop-Offs | Possible | Moderate | High |
| | 5.2.6 | Faded Linemarking, Damaged or Missing RRPMS | Likely | Moderate | High |
| | 5.2.7 | Potholes | Possible | Major | Extreme |
| | 5.2.8 | Surface Texture Loss | Possible | Minor | Moderate |
| | 5.2.9 | Vertical Movement – Wheel Rutting, Heaving, Depressions or Corrugations | Possible | Moderate | High |
| CONSTRUCTED CARPARKS, CONSTRUCTED ROWs | 5.2.1 | Cracking - Crocodile | Possible | Minor | Moderate |
| | 5.2.2 | Cracking – Linear | Likely | Minor | High |
| | 5.2.3 | Damaged Local Area Traffic Management (LATM) Devices | Possible | Minor | Moderate |
| | 5.2.4 | Edge Breaks | Possible | Minor | Moderate |
| | 5.2.5 | Edge Drop-Offs | Possible | Minor | Moderate |
| | 5.2.6 | Faded Linemarking, Damaged or Missing RRPMS | Likely | Minor | High |
| | 5.2.7 | Potholes | Possible | Moderate | High |
| | 5.2.8 | Surface Texture Loss | Possible | Minor | Moderate |
| | 5.2.9 | Vertical Movement – Wheel Rutting, Heaving, Depressions or Corrugations | Possible | Minor | Moderate |
| UNCONSTRUCTED ROADS | 5.3.1 | Potholes | Possible | Moderate | High |
| | 5.3.2 | Vertical Movement - Wheel Depressions, or Corrugations | Possible | Moderate | High |

| | | | | | |
|--|-------|--|----------|----------|----------|
| UNCONSTRUCTED CARPARKS, UNCONSTRUCTED ROWs | 5.3.1 | Potholes | Possible | Minor | Moderate |
| | 5.3.2 | Vertical Movement - Wheel Depressions, or Corrugations | Possible | Minor | Moderate |
| PATHWAYS | 5.4.1 | Cracking | Likely | Moderate | High |
| | 5.4.2 | Potholes | Possible | Moderate | High |
| | 5.4.3 | Vertical Movement - Lips | Possible | Moderate | High |
| | 5.4.4 | Vertical Movement – Heaving and Depressions | Possible | Moderate | High |
| KERB & CHANNEL | 5.5.1 | Cracking | Possible | Minor | Moderate |
| | 5.5.2 | Vertical Movement – Lips, Heaving and Depressions | Possible | Minor | Moderate |
| SIGNS | 5.6.1 | Regulatory Signs | Possible | Moderate | High |
| | 5.6.2 | Waning Signs and Hazard Signs | Possible | Moderate | High |
| | 5.6.3 | Parking Signs | Possible | Minor | Moderate |
| | 5.6.4 | Locality / Directory / Advisory Signs | Possible | Minor | Moderate |
| BRIDGES | 5.7.1 | - | Possible | Major | Extreme |
| STORMWATER PIPES | - | Blocked Stormwater Pipe | Possible | Minor | Moderate |
| | - | Damaged Stormwater Pipe | Possible | Minor | Moderate |
| STORMWATER PITS / STRUCTURES | - | Blocked Stormwater Pit / Structure | Possible | Minor | Moderate |
| | - | Damaged Stormwater Pit / Structure | Possible | Moderate | High |
| STREET FURNITURE | - | Damaged Street Furniture | Possible | Moderate | High |
| RETAINING WALLS | - | Structural Failure | Unlikely | Moderate | Moderate |