

## 20 Detritus and Slip Removal

### 20.1 Scope

This Section sets out the requirements for uplifting and completely removing **detritus** and **slips** from the surface of the **carriageway, shoulder, drainage features, weighpits, rest areas** and including the removal of **detritus** from sump grates in rural areas.

The work required by this Section excludes removing:

- a) **litter**,
- b) **detritus** from kerb and **channel** and sealed surfaces within urban areas, unless listed in Appendix 20.1 or the **Operational Requirements**, except if the **detritus**:
  - results from the Contractor's operation e.g. **pavement gritting**, surfacing of repairs
  - requires removal to complete a subsequent operation e.g. **pavement marking**

Clearance of **slips** occurring during an event where Section 9 **Incident** Response provisions are being used will generally be managed under Section 9. Agreement will be reached between the Contractor and the Engineer when clearance of **slips** will be managed under Section 20 provisions.

### 20.2 Definitions

Terms defined in Table 3.2, Definitions appear in **bold**.

### 20.3 Cyclic Inspections

The Contractor shall inspect all roads within the Contract area at least at the frequency listed in Table 20.1 and shall remove **detritus** within the response times.

Class	Inspection Frequency
M	Daily
U and R1	Every 2 Days
R2	Every 3 Days
R3	Weekly
R4	Weekly

### 20.4 Response Times

#### 20.4.1. Detritus Removal

Table 20.2 states the response times for removing **detritus**. The response times apply from the time of **notification** of the **detritus**.

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Class	Response Time	
	Sealed Surfaces	Lined and Unlined Channels
M	24 Hours	24 Hours
U and R1	24 Hours	3 Days
R2	3 Days	4 Days
R3	4 Days	6 Days
R4	6 Days	9 Days

### 20.4.2. Slips

**Slips** greater than 1m<sup>3</sup> must be removed by the date shown on the agreed programme.

Where a **slip** poses a hazard to road users, immediate action by the Contractor may be required. **Slips** requiring urgent attention (e.g. where a **slip** obstructs an adjacent **drainage** facility and forces water across the **carriageway** surface) will be managed using Section 9 **Incident** Response.

## 20.5 Specific Requirements

### 20.5.1. Detritus Removal from Site

When undertaking **detritus** removal, all **detritus** shall be completely removed from the site of the works and disposed of at an approved disposal site.

### 20.5.2. Detritus Removal Intervention Levels

The Contractor must ensure that all **detritus** is removed when it exceeds the following intervention levels:

#### 20.5.2.1. Sealed Surface

**Detritus** is to be removed from any sealed surface where the amount of **detritus** exceeds 0.2 kg/m<sup>2</sup>.

#### 20.5.2.2. Lined Drainage Channels

**Detritus** must be removed from lined **channels**, including kerb and **channel**, when the maximum depth of ponded water in the **channel** exceeds 20mm and/or water is diverted to run across the sealed road surface.

#### 20.5.2.3. Unlined Drainage Channels

**Detritus** is to be removed from unlined **drainage channels** when the **detritus** material obstructs more than 10% of the cross-sectional area of the waterway.

#### 20.5.2.4. Sump Grates

**Detritus** is to be removed when it covers more than 10% of the top of a sump grate.

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### 20.5.3. Intersections

Intersections with local roads shall be maintained in accordance with clause 1.2.2.

### 20.5.4. Slip Removal

When undertaking **slip** removal, all **slip** material shall be completely removed from the site of the works and disposed of at an approved disposal site within the provisions of the *Resource Management Act 1991*.

## 20.6 Performance Criteria

The performance of the Contractor during the Contract period will be measured by the following criteria:

- a) inspections are completed within the specified frequencies
- b) inspections are completed on time and inspection records are available when requested by the engineer
- c) that all **detritus** is removed in accordance with this Specification within the response times stated.
- d) that all **slips** greater than 1m<sup>3</sup> are removed in accordance with this Specification by the date shown on the agreed **programme**, and within the response times stated.
- e) that the road **carriageway** shall meet the **detritus** removal intervention levels required
- f) that all **drainage channels** shall meet the **detritus** removal intervention levels required
- g) there is a maximum of 0.2 kg of **detritus** (e.g. sealing chip) per square metre of sealed surface
- h) there is no section of lined **drainage channel** with ponding greater than 20mm depth.
- i) there are no unlined **channels** with more than 10% of the cross-sectional area obstructed
- j) there is no **detritus** covering more than 10% of the top of a sump grate.