





Highway Safety Inspection Manual

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Highway Safety Inspection Manual
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Scope

This Manual has been adopted Countywide as Best Practice.

Legislation and Standards

The Highways Act 1980 The New Roads and Street Works Act 1991 Road Traffic Regulation Act 1984 Traffic Signs, Regulations & General Directions 2016 Road Traffic Act 1988 The Traffic Management Act 2004 Railways and Transport Safety Act 2003

Further Documentation

Well-managed Highway Infrastructure - A Code of Practice Traffic Signs Manual (Chapters 1 - 8) Code of Practice for Street Works Inspections

Policy Statement

This Manual has been developed with the primary aim of providing operational guidance to those officers involved in undertaking highways safety inspections in order to ensure a consistent countywide approach by utilising a formalised system that prescribes the frequency of inspections and the method of assessing, recording and responding to defects in the highway.

Equality Impact Assessment

Equality Impact Assessment has been completed and will be updated at subsequent reviews.

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1 – Introduction

This Manual has been developed with the primary aim of providing operational guidance to those officers involved in undertaking highways safety inspections in order to ensure a consistent countywide approach by utilising a formalised system that prescribes the frequency of inspections and the method of assessing, recording, and responding to defects in the highway.

This manual was subject to review in 2021; minor amendments were made to the manual in 2020, but due to the Covid-19 pandemic, a full review was deferred until 2022 due to the Covid-19 pandemic. Recommendations have been incorporated into the general text wherever appropriate.

This manual is for use when managing those Highways Maintainable at Public Expense which have been formally paved and included on the Councils List of Streets in accordance with section 36(6) of the Highways Act 1980. In addition, there is a prescribed list of routes which are included on the Definitive Map and Statement in accordance with section 53 of the Wildlife and Countryside Act 1981 which have been formally paved and their management is covered by this manual. Those Unsurfaced Unclassified Roads on the List of Streets are not included within this manual as their maintenance management is in accordance with routes included on the Definitive Map and Statement.

There are many private streets within the area which are not included on either the List of Streets or the Definitive Map and Statement, and these are not the responsibility of the Council as local highway authority. No inspections are carried out on these and their management is not covered by this manual; however, the local highway authority acknowledges that it has powers to repair highways and if requested by the landowner may consider undertaking repairs on condition that all costs are reimbursed. It should be noted that the repair of private highways is not a responsibility of the Council as local highway authority.

In this Manual the term <u>Intervention Level</u> has been introduced to define the minimum criteria at which making safe or repairing (intervention) will take place.

This guidance builds on and extends from that contained in the North Yorkshire Council Highway Maintenance Plan.

In complying with its duty to maintain the highway, as outlined within Section 41 of the Highways Act 1980 and for the purposes of Section 58, which provides for special defence, North Yorkshire Council undertakes inspections of the highway incorporating the carriageway, footway, grass verge and pathways upon which the public have a right of access, and which are maintained at public expense.

Section 41 of the Highways Act 1980 imposes a duty on the Highway Authority (North Yorkshire Council) to maintain those roads, footways and cycle tracks that are 'highways maintainable at public expense'.

Section 58 of the Highways Act 1980 states that a statutory defence against third party claims is provided where the Highway Authority can establish that reasonable care has been taken to 'secure that the part of the highway to which the action relates' to a level commensurate with the volume of ordinary traffic such that it 'was not dangerous to traffic'.

Section 130 of the Highways Act 1980 places a general duty on the Highway Authority to 'assert and protect the rights of the public' in their lawful use of the highway.

Section 81 of the New Roads and Street Works Act 1991 places a duty on Utility Companies to maintain their apparatus to the reasonable satisfaction of the Highway Authority.

This manual deals with safety inspections that are derived from two main sources:

- Planned Cyclic Safety Inspections
 To identify defects which are hazardous (to any user of the highway including drivers, pedestrians, equestrians, and cyclists) so that an effective repair can be carried out within a predetermined response time.
 Cyclic Safety Inspections are carried out to specified frequencies, dependent upon the hierarchy of each highway. During the inspection, defects that are at or exceed the minimum intervention levels (subject to Risk Assessment), as outlined in Section 3.4, are identified, and processed for repair.
- Reactive Safety Inspections
 In response to particular circumstances, such as reports of defects from the police, general public, other agencies and utilities.

In addition to and concurrent with a Highway Safety Inspection the following are also observed:

- Observation Assessments
 To consider the general condition of the individual roads and pavements and the need for planned structural maintenance which can be programmed accordingly.
- Utility Company Apparatus
 - Inspected concurrent with a Highway Safety Inspection with, where appropriate, notification being sent to the relevant party requiring them to undertake remedial action under section 81 of the New Roads and Street Works Act 1991.

All data arising from Highway Safety Inspections is entered via a vehicle mounted or hand held data capture device with the resultant data being stored within a computer programme hereafter referred to as INSIGHT.

Highway Safety Inspections are undertaken by Highways Officers. The Highways Officer is required to record any defects which are deemed to require repair when applying the criteria in this manual. Defects which do not meet the criteria given in this manual do not need to be recorded.

Where required, Highways Officers can used Road AI to assist in ensuring defects that meet the criteria of this manual are identified, recorded, and actioned. Specific examples could include identifying line marking defects.

Highways Officers will be accredited to Highway Inspection - Technical (Lantra) level as part of ongoing workforce development.

This manual has been introduced to ensure consistency of Inspection in line with guidance provided by the North Yorkshire Council Insurance and Risk Management Team in conjunction with the Council's Insurers and Claims Handlers.

2 – Inspection Procedures

2.1 - Cyclic Inspections

All highway safety inspections will be carried out to the frequencies detailed in Part 3 Methodology, section 3.1 of this manual and must be completed as follows:

Frequency of Inspection	Completed by
Monthly	Due Date or 1 week before the Due Date
Quarterly	Due Date or 2 weeks before the Due Date
Six Monthly	Due Date or 3 weeks before the Due Date
Annual	Due Date or 4 weeks before the Due Date

Definition of above terms;

- Frequency of Inspection Monthly indicates that twelve regular spaced inspections will be carried out per year.
- Frequency of Inspection Quarterly indicates that four regular spaced inspections will be carried out per year.
- Frequency of Inspection Six Monthly indicates that two regular spaced inspections will be carried out per year.
- Frequency of Inspection Annual indicates that one regular spaced inspection will be carried out per year.
- Due Date is the final date by which an inspection must be completed.

But subject to the following limitations;

- If and for reasons beyond the control of the Highways Officer (eg substantial snow fall), an inspection cannot be carried out by the Due Date then an entry should be made to document the circumstances.
- Due to the nature of the weather in North Yorkshire it is probable that the road surface will be wet with some elements of standing or running water whilst an inspection is in progress, however if the quantity of water is excessive or across the full width of the carriageway then the inspection should be abandoned, and an entry should be made to document the circumstances.
- As soon as possible following the above events an ad-hoc safety inspection (see section 2.2) should be carried out on the effected length of highway.

Notes:

- If a Monthly Inspection Due Date falls on a Saturday or Sunday, the Highways Officer schedules the Inspection for one day in the week prior to the Due Date. The Data management system will automatically schedule the next Inspection from the original Due Date.
- If an Inspection Due Date falls during an extended period of absence eg Highways Officer holiday or illness, then the Inspection must be allocated to another Highways Officer who has the capacity to carry out the Inspection on or before the Due Date as outlined above.
- The monthly inspections can be undertaken up to 1 week after the due date as long as no more than five weeks have elapsed since the last inspection. This can only occur for legitimate operational reasons and is limited to no more than two occurrences in any given year. Note: A late inspection will be reported on the system hence separate records need to be keep of any occurrences and the reason they occurred.

Walked Inspections

Inspection of footways and cycleways in urban areas subject to a 30mph restriction or less will normally be walked with all data directly entered into the handheld data capture device at the time of the inspection.

- Inspection of footway category 1a, 1, 2, 3 and 4 will normally be walked. When there are
 footways on both sides of the carriageway, both footways shall be walked. When carrying out
 walked footway inspections, the adjoining carriageway will also be inspected by observation
 from the adjacent footway.
- Inspection of footway category 5 will normally be carried out as part of the driven inspection along the adjacent carriageway. The Highways Officer must walk any sections where parked vehicles restrict the view of the full highway extent or where the footway is elevated so that it

cannot be viewed from the inspection vehicle. When a driven inspection is being carried out and there is a footway present on both sides of the carriageway, the road will be driven in both directions.

- Inspection of cycleways will either be walked or carried out using a bicycle.
- It is recognised that parked vehicles can present a visual obstruction to the inspection process. However, it is also recognised that removal of all parked vehicles form large sections of the highway would cause major disruption to residents, be difficult to enforce and impractical to provide any alternative parking. The Highways Officer must do all that is reasonably practicable to ensure that any defects are identified and recorded. The best view under a parked vehicle is obtained by not standing too close, the shallow angle of sight affording the greatest opportunity to identify defects and the space between all parked vehicles must be closely examined.

Driven Inspections

Driven inspections can be carried out from a slow-moving inspection vehicle (marked 'SURVEYING'), specifically designed for this purpose, with both a driver and Highways Officer present at all times.

Driven inspections can be carried out from a slow-moving vehicle without a dedicated driver being present, in low-risk situations. This would be in situations where any actionable defects can still be identified and there are no additional public safety risks from not having a dedicated driver. In such circumstances the normal safety inspection vehicle may be replaced with an appropriately liveried Highways Officer's van. In urban areas the inspection will be carried out at no more than 10 mph on category 4b roads and 20 mph on higher category roads and in both directions; the Highways Officer must walk any sections where parked vehicles restrict the view of the full highway extent. A record must be kept of the inspection method used.

The paragraph on parked cars in 'Walked Inspections' equally applies to driven inspections.

All data will be entered on-site into either a vehicle mounted or handheld data capture device.

The driver of the Inspection vehicle, although not required to be a Highways Officer, must have had experience of Highway Network Surveys or Inspections prior to commencing a live driven Inspection.

All reasonable precautions must be taken to ensure the inspection is carried out safely (Risk assessments can be found on the NYC intranet site under Health and Safety). If at the time of inspection, the Highways Officer considers it too dangerous to complete a route safely then he or she should consult with their line manager for advice and record actions.

In rural areas the maximum speed of the inspection vehicle throughout an inspection will be 20mph.

Inspection of dual and multilane (3 or more) sections of carriageway will be in both directions at each Inspection.

Both the Inspection vehicle and Highways Officers transport associated with walked inspections will be equipped with the following equipment to assist with an emergency:

Equipment	Inspection Vehicle	Transport Vehicle
Sweeping brush	✓	\checkmark
Shovel	✓	\checkmark
Spade	✓	✓
Lump Hammer	✓	✓
Bushman Saw	✓	✓
Loppers	✓	✓
2 No Tubs of Pavement Repair Material	✓	✓
2 No Adjustable Spanners	✓	✓
1 No 5mm Hex Allen Keys	✓	✓
6 No 450mm Road Cones		✓
6 No 750mm Road Cones	✓	
2 No fold up traffic signs each of Men at Work, Road Narrows, Keep Left / Right	~	✓

All the above should be kept in good clean useable condition and any used material or damage items replaced before the next inspection day.

All road signs should be 'fold-up' or 'cone-mounted' to reduce storage space.

2.2 – Site Specific or Ad-hoc Inspections

Any individual safety-related defect identified and inspected outside a planned or ad-hoc cyclic safety inspection originated from any source eg Police Report, Public Communication, Highways Officer identified etc is recorded through the issuing of a works order. Regardless of whether a defect reported in this way is actionable or not, it should be photographed and measurements taken.

Any Category 1 defect (requiring making safe or repair within 24 hours) identified whilst in transit between two points and not on a current inspection route is also required to be recorded through the issuing of a works order and the appropriate action taken.

Any safety inspection carried out beyond the due date must have the reasons for the delay recorded.

2.3 – Observation Assessments

As part of and concurrent with the Highway Safety Inspection process all sections of carriageway, cycleway and footway are assessed for overall general condition.

This information is used to aid the Asset Management Team in the targeted delivery of future planned maintenance schemes.

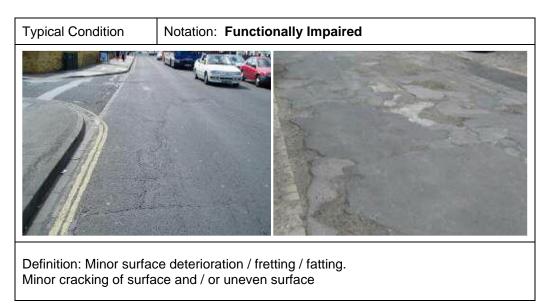
Observational assessments shall be based on the average condition of the full section length. This information will be recorded using the following notation:

Example Carriageway Condition:





Example Carriageway Condition (continued):





Example Footway Condition:

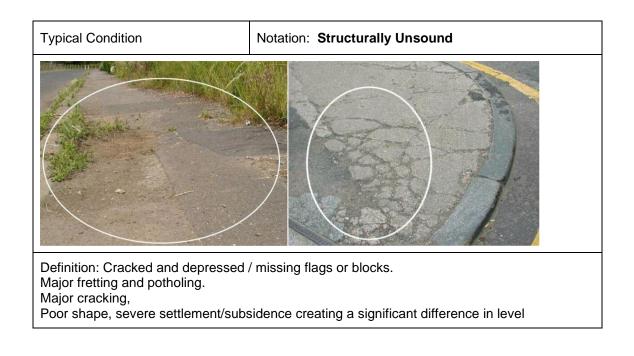
Typical Condition	Notation: As New
Definition: New condition	on free from repairs or patching



Definition: Sound footways with patching, Modular footways with sound bituminous patches, Modular footways with elements of different colour/age/material, Faded bituminous materials (especially coloured bituminous). Graffiti / Spray paint



Example Footway Condition (continued):



2.4 – General Duty to Maintain

Notwithstanding the defect categories contained in this document, the Highways Officer may refer any perceived defect in the highway which could present a significant risk to safe passage to the highway user.

Referral in this instance is to their line manager for consideration and action, if required; however, if the defect requires immediate or urgent action then the Highways Officer should deal with the hazard and advise the line manager retrospectively. Any defect being considered by reason of the above should be photographed and measurements recorded.

2.5 – New Roads and Street Works Act 1991 (NRSWA)

Concurrent with a Highway Safety Inspection, any item of statutory undertaker apparatus or any utility reinstatement under guarantee, which the Highways Officer considers defective in accordance with the guidance in this manual, will be recorded and reported to the appropriate Utility Company.

If the utility apparatus / reinstatement is found to be outside its tolerances (as specified in the NRSWA: Street Works (Reinstatement) Regulations) due to settlement, plucking out, heave or other reasons, and it exceeds the category 1 criteria, any costs incurred in making safe, and/or repair, must be recovered from the undertaker. Notice will normally be served on the undertaker to respond to a category 1 defect within 2 hours; however, if such a response is not forthcoming then the highway authority will respond and recover its costs. All costs must be charged in accordance with the Street Works (Recovery of Costs) (England) Regulations 2002.

Other defects associated with statutory undertaker apparatus/ reinstatements (ie outside the tolerances of Street Works (Reinstatement) Regulations 1992 but not a category 1 safety defect) may still require reporting to the appropriate Utility Company by serving of a notice under section 81 of the New Roads and Street Works Act 1991 and in line with the Department for Transports Code of Practice for Street Works Inspections.

2.6 – Performance Management

Measure	Performance	Frequency of Review	Method	Responsibility
Ensure all routes are completed	100% Compliance	Annual	Insight Report	Maintenance Manager
Ensure routes are completed on time	98% Compliance	Annual	Insight Report	Maintenance Manager
Inspection accuracy / quality	95% Compliance	6 Monthly	Random Inspection (1)	Maintenance Manager
Cross Area consistency	90% Compliance	Annual	Random Inspection (2)	Maintenance Manager from adjoining area

Safety Inspections will be subject to regular audit as follows:

Random Inspection (1)

Carried out at six monthly intervals during April and October

Maintenance Manager to carry out one walked and one driven Inspection, (determined at random by the Maintenance Manager) with each Highways Officer in their own geographic area. Results to be compared against those previously recorded in Insight by the Highways Officer.

An audit will be carried out by the relevant Maintenance Manager towards the end of probationary periods for new Highway Officers. This will ensure the accuracy and quality of inspections and works orders.

Random Inspection (2)

Carried out annually during September

Maintenance Manager A to carry out one walked and one driven Inspection (determined at random by Maintenance Manager A) with Maintenance Manager B in Maintenance Manager B's geographic area. Results to be recorded and compared against those previously recorded in Insight. Feedback to be delivered to Highways Officers by Maintenance Manager B.

Maintenance Manager A	Maintenance Manager B
Area 5	Area 1
Area 1	Area 2
Area 2	Area 3
Area 3	Area 4
Area 4	Area 7
Area 7	Area 6
Area 6	Area 5

3 – Methodology

Safety Inspections are intended to identify those defects, which are likely to create a danger to users of the highway network. Such defects will include those that require urgent attention (within 2 hours of the defect being identified by the Highways Officer) as well as those where a longer response period would be acceptable.

The following parameters have been used to specify the safety inspection regime:

- 1. Frequency of Inspection
- 2. Items for Inspection
- 3. Priority Response Times
- 4. Risk Assessment

3.1 Frequency of Inspection

The following frequencies for safety inspections are based upon network hierarchies as outlined in "Well-maintained Highways" and documented in the Highway Maintenance Plan, which also takes into account the following considerations:

- Network hierarchy
- Traffic use, characteristics and trends
- Incident and inspection history
- Characteristics of adjoining network elements
- Local knowledge / expertise

CARRIAGEWAY HIERARCHY FREQUENCY OF INSPECTIO)N
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Hierarchy Category	Hierarchy Description	Type of Road	Detailed Description	Frequency and Tolerance**
1	Motorway	Not applicable	Not applicable	Not applicable
2	Strategic Route	Trunk and some Principal "A" roads between Primary Destinations	Routes for fast moving long distance traffic with little frontage access or pedestrian traffic. Speed limits are usually in excess of 40mph and there are few junctions. Pedestrian crossings are either segregated or controlled and parked vehicles are generally prohibited.	1 month +0 / -1 week
3a	Main Distributor	Major Urban Network and Inter-Primary Links. Short-medium distance Traffic	Routes between Strategic Routes and linking towns to the strategic network with limited frontage access. In urban areas speed limits are usually 40mph or less, parking is restricted at peak times and there are positive measures for pedestrian safety.	1 month +0 /-1 week
3b	Secondary Distributor	B and some C class roads. Some unclassified urban bus routes carrying local traffic with frontage access and frequent junctions	In rural areas these roads link the larger villages and industrial sites to the Strategic and Main Distributor Network. In built up areas these roads have 30mph speed limits and very high levels of pedestrian activity with some crossing facilities. On street parking is generally unrestricted.	1 month +0 /-1 week
4a	Link Road	Roads linking between the Main and Secondary Distributor Network	In rural areas these roads link the smaller villages to the distributor roads. In urban areas they are residential or industrial or inter-connecting roads with 30mph speed limits random pedestrian movements and uncontrolled parking.	3 months +0 /-2 weeks
4b	Local Access Road	Roads serving limited numbers of properties carrying only access traffic	In rural areas these roads serve small settlements and provide access to individual properties and land. They are sometimes only single lane width and unsuitable for HGV. In urban areas they are often residential loop roads or culs- de-sac.	12 months +0 /-4 weeks
5	Back Street	Roads serving limited numbers of properties	Only applicable to urban areas, will typically be the rear access road to terraced properties	12 months +0 /-4 weeks
6	Unsurfaced Unclassified Road (UUR)	Roads serving limited numbers of properties	Only applicable in rural locations includes those roads locally known as 'Green Lanes' or 'County Roads'.	*

* Intervention levels in this document do not apply to Category 6 roads. Category 6 roads are managed reactively, no inspections are scheduled; however, upon receiving a customer report the Countryside Access Teams UUR Officer will inspect the site, report the condition and arrange repair where necessary.

**The monthly inspections can be undertaken up to 1 week after the due date as long as no more than five weeks have elapsed since the last inspection. This can only occur for legitimate operational reasons and is limited to no more than two occurrences in any given year. Note: A late inspection will be reported on the system hence separate records need to be keep of any occurrences and the reason they occurred.

FOOTWAY HIERARCHY FREQUENCY OF INSPECTION

Hierarchy Category	Hierarchy Description	Description	Frequency and Tolerance
1a	Prestige Pedestrian Zone	Pedestrianised areas	1 month +0 /-1 week
1	Primary Pedestrian Route	Busy town centre shopping and business areas, and main pedestrian routes linking transport interchanges to the town centre.	1 month +0 /-1 week
2	Secondary Pedestrian Route	High usage routes connecting a number of residential areas and providing access to the primary routes, shopping centres, large schools, leisure complexes and industrial centres.	3 months +0 /-2 weeks
3	Link Footway	High/Medium usage routes providing a link for a residential area to the primary and secondary walking routes.	6 months +0 /-3 weeks
4	Local Access Footway Urban	Urban low usage footways, usually on housing estates.	12 months +0 /-4 weeks
5	Local Access Footway Rural	Low usage rural footway usually between villages sometimes unsurfaced	12 months +0 /-4 weeks

CYCLEWAY HIERARCHY FREQUENCY OF INSPECTION

Hierarchy Category	Description	Frequency and Tolerance
A	Cycle lane forming part of the carriageway, commonly 1.5metre strip adjacent to the nearside kerb. Cycle gaps at road closure points with exemptions for cycle access.	As for Road
В	Cycle Way, a surfaced route not contiguous with the carriageway. Shared cycle/pedestrian paths, either segregated by a white line or other physical segregation. Unsegregated Footway/Cycleways are inspected as Footways.	As per footway for unsegregated shared, otherwise12 months +0 /-4 weeks
с	Cycle trails, leisure routes through open spaces, often unsurfaced. (Where forming part of the highway maintainable at public expense)	12 months +0 /-4 weeks

Where carriageway and footway hierarchies intersect, for example at pelican or zebra crossings, or other defined crossing points at junctions, the hierarchy of the route with the most frequent inspection category will always take precedence in determining defect definition and responses. This principle will also apply to intersections between carriageways and cycle routes and between cycle routes and footways.

Where National cycle network routes (NCN) are on carriageway or part of a shared cycle/pedestrian path they shall be inspected at the same frequencies as the corresponding carriageway/footway hierarchy; however, cycleway intervention tolerances should be applied to these routes.

3.2 Items for Inspection

This is a visual safety inspection only, and does not for example include items such as electrical safety or testing.

All of the components which make up the Highway Asset are to be inspected, including, but not exhaustively:

				0.
Carriageways	Central Island Central Reservation Carriageway Hard Shoulder Crossover (central reserve) Kerbs,(including Granite sett kerbs) Channels and Edging Verge Lay by Cycle Lanes		Signs, Bollards	Signs Bollards Illuminated Signs Pedestrian Crossing Lights Lighting Columns Wall Mounted Street Lights All other lighting units
Footways and Cycleways	Footway Paved Footpath Cycleways Kerbs, Channels and Edging Verge		Traffic Signals	Traffic Signals Traffic Signal installation Traffic Signal furniture
Ironwork	Inspection Chambers Catchpit and Gullies Kerb Outlets Utilities Covers and Frames Cattle Grids		Safety Fencing and Barriers	Fences and Barriers Pedestrian Guard Rail Safety Fencing Boundary Walls and fences
Drainage	Culvert Highway Ditch Filter Drain Grip Gullies Grids Pipes grip / Kerb outlet		Street Furniture	All items of street furniture e.g Bus Shelters
Road Markings	Stop Lines Give Way Lines Double white line systems Other Road Markings High Friction Coating		Hedges and Trees	Hedges Trees and shrubs Other Vegetation
Road Studs	Non-Reflective Road Studs (e.g zebras and pelican crossings) Depressible reflective road stud Non-Depressible reflective road stud		Scavenging	The full extent of Highway including; Hazardous litter Sharp objects Broken glass etc

3.3 **Priority Response Times***

The degree of observed deficiency or defect and consequent nature of response are dealt with through the risk assessment procedure section 3.4.

The priority of response times relevant to the particular categories of defect as assessed by the likely impact and probability of the risk are as follows:

Category 1	Priority 1	Make safe or repair within 2 hours
Category 1	Priority 2	Make safe or repair within 24 hours

Category 1 Defect. These are defects which due to their nature & location represent an immediate or imminent hazard and / or very serious risk to the public.

Category 1 defects are to be classified as Priority 1 or Priority 2 and are therefore either to be made safe or repaired within 2 hours or 24 hours respectively of the defect being identified, subject to risk assessment.

For all category 1 defects the repair crews are to be called as soon as the defect is identified by the Highways Officer to enable repairs or making safe within the above time frames.

Examples of Priority 1 Defects are fallen trees obstructing the carriageway, missing inspection chamber covers, potholes greater than 100mm in depth on categories 2, and 3a roads, or any event which the Highways Officer deems it too dangerous to leave site before the repair is carried out or it has been made safe.

Examples of Priority 2 Defects are unstable tree at risk of falling into highway, potholes greater than 40mm but less than 100mm in depth on a category 3a road or any event which the Highways Officer deems it too dangerous to leave unresolved for more than 24 hours.

All Priority 1 Defects that are encountered shall, if reasonably practicable, be corrected, temporarily made safe or otherwise protected by the Highways Officer and reported to the base office at the earliest opportunity with a request to the appropriate Contractor to be securely made safe or repaired within the response times specified within the Highways Maintenance Contract (ie 1 hour during working hours; 1.5 hours outside working hours) in order to achieve compliance with action being taken within 2 hours from the time of inspection.

All Priority 2 Defects that are encountered shall if reasonably practicable be securely made safe or repaired within 24 hours.

When a category 1 defect is identified within a larger area, only that part of the area which meets the criteria for category 1 defects shall be treated as a category 1 defect with the remainder being treated as a category 2 defect, except where this is impractical to do so. Some category 1 defect repairs may be due to the activities of the utility companies, which are governed by the requirements of NRSWA. In this case, if the utility apparatus/reinstatement is outside its specified tolerances due to settlement, plucking out or other reasons, and within category 1 criteria, any costs incurred in making safe, and or repair, must be recovered from the undertaker. All costs must be charged in accordance with the Street Works (Recovery of Costs) (England) Regulations 2002.

*Defect categories and priority response times supersede those referred to in the North Yorkshire Council Highway Maintenance Plan April 2006.

	Priority 3	Make safe or repair within 1 week
Category 2	Priority 4	Make safe or repair within 1 month
	Priority 5	Make safe or repair within 3 months

Category 2 Defect: Defects other than those designated Category 1 which have reached the minimum intervention levels tabulated in section 4 of this manual.

Category 2 defects are those defects which, following a risk assessment, are deemed not to represent an immediate danger or serious inconvenience to the public or which are not likely to result in significant damage to property.

Such defects may have safety implications, although of a far lesser significance than category 1 defects but are more likely to have serviceability or sustainability implications.

These defects are those for which repairs required shall be undertaken within a planned programme of works within 1 week to 3 months depending on the priority i.e priority 3, 4 or 5 as determined by risk assessment.

The appropriate action to be taken will be determined by the Highways Officer at the time of inspection following guidance contained in section 3.4 Risk Assessment.

3.4 Risk Assessments.

Risks applicable to highway inspections include both the items to be inspected (as previously described in Section 3.2) and the risks inherent to the personnel in undertaking the inspections.

3.4.1 In regard to the risks inherent to the operatives in undertaking the inspections Risk assessments can be found on the Environmental Services area of the main NYC intranet site under risk management, health & safety, Environment health & safety documents site.

3.4.2 In regard to the items to be inspected, any item with a defect level which corresponds to, or is in excess of, the parameters for defects and intervention levels stated in section 4 will be subjected to risk assessment in line with the risk matrix herein.

The procedure for risk assessment is as follows:

Risk Identification

An inspection item for which the defect intervention level is reached or exceeded is to be identified as a risk. The entire inventory to be observed and the appropriate intervention levels are detailed in Section 4.

Risk Evaluation

All risks identified through this process have to be evaluated in terms of their significance which means assessing the likely impact should the risk occur and the probability of it actually happening.

Risk impact

The impact of a risk occurring will be quantified on a scale of 1 to 5 as follows:

1	Little or negligible impact
2	Minor or low impact
3	Noticeable impact
4	Major, high or serious impact
5	Extremely high or dangerous impact

For example, a 40mm pothole along the centre line of a carriageway subject to a speed restriction of 30mph may have little impact whereas a 40mm pothole in the cycleway at the near edge of the carriageway could have a major impact.

Risk Probability

The probability of a risk occurring will also be quantified on a scale of 1 to 5 assessed as follows:

1	Very low probability (up to 20%)
2	Low probability (21% - 40%)
3	Medium probability (41% - 60%)
4	High probability (61% - 80%)
5	Very high probability (over 80%)

The probability of a risk occurring will also be quantified by assessing how many users are likely to pass by or over the defect and consequently the network hierarchy and defect location are important considerations in the assessment.

For example, considering the previous scenario, the risk probability in the cycle lane of the carriageway where there are numerous cyclists is likely to be higher whereas the probability along the centre line may only be medium as the traffic density should be lower.

Risk Factor

The risk factor for a particular risk is the product of the risk impact and risk probability and is therefore in the range of 1 to 25. It is this factor that identifies the overall seriousness of the risk and consequently therefore the appropriateness of the speed of response to remedy the defect. Accordingly, the priority response time for dealing with a defect can be determined by correlation with the risk factor as shown in the risk matrix below.

Risk Matrix

Having identified a particular risk, assessed its likely impact and probability and calculated the risk factor, the risk assessment procedure can be shown in the form of a risk matrix as follows:

The colour	Probability Impact	Very low (1)	Low (2)	Medium (3)	High (4)	Very High (5)
shading in the matrix identifies	Negligible (1)	1	2	3	4	5
the priority response and	Low (2)	2	4	6	8	10
	Noticeable (3)	3	6	9	12	15
	High (4)	4	8	12	16	20
	Extreme (5)	5	10	15	20	25

accordingly, the defect category, risk factor and priority response can be tabulated in a simple formal as follows:

Defect Category	Risk Factor	Priority Response	Repair Time
1	25	Priority 1 response	2 hours
I	15 - 20	Priority 2 response	24 hours
	10 - 12	Priority 3 response	1 week
2	5 - 9	Priority 4 response	1 month
	1 - 4	Priority 5 response	3 months

This Manual is a guide assist the Highways Officer in undertaking a risk assessment of the defect. It provides a framework which links intervention levels to response times and covers a number of examples which act as a starting point in the decision-making process. Highways Officers are expected to use their judgement to assess the risks that apply to the particular on-site circumstances and use their expertise to select the most suitable priority for repair. As a result, there will be circumstances where the priority assigned is different to that given in the worked examples in the Manual. Examples of this could include footways around elderly person's homes, doctors' surgeries, day care centres, schools, nurseries, hospitals, post offices etc, which would increase the overall risk factor. The reasons for this decision should be recorded at the time of the inspection.

4 – Risk Register encompassing Parameters of Defects, Intervention levels and Risk Matrix Application

Example	Defect	Minimum Intervention Level subject to risk assessment	Page
	1. Carriageways		
1.1	Potholes / Spalling or other abrupt level difference	40mm depth	26
1.2	Depression / Crowning /Heave or Subsidence/ Rutting	50mm depth	27

	2. Footways and pedestrian light controlled and other designated Pedestrian Crossing points		
2.1	trip/ pothole or other abrupt level difference in metalled surface	20mm depth	28
2.2	trip/ pothole or other abrupt level difference in un metalled surface	50mm depth	29
2.3	Depression / Crowning / Heave or Subsidence / Rutting	50mm depth	30
2.4	Open joint	40mm wide x 20mm deep	31
2.5	Rocking slab/ block	15mm displaced face	32
2.6	Tree root damage	20mm depth	33

	3. Kerbs not forming part of the footway		
3.1	Misaligned horizontally	40mm horizontally	34
3.2	Loose / rocking / misaligned vertically	40mm displaced face	35
3.3	Missing	Yes	36

	4. Kerbs contiguous with footway		
4.1	Misaligned horizontally	20mm horizontally	37
4.2	Loose / rocking / misaligned vertically	20mm displaced face	38
4.3	Missing	Yes	39
4.4	Open joint or Gap	80mm	40

	5. Cycle lanes/ ways		
5.1	Pothole, trench or other abrupt level difference in metalled surface	20mm depth	41
5.2	Pothole, trench or other abrupt level difference in un metalled surface	50mm depth	42

	6. Verges in urban areas		
6.1	Sunken area adjacent to and running parallel with carriageway edge	200mm depth	43
6.2	Sunken area adjacent to and running parallel with footway	100mm depth	44
	7. Verges in rural areas		
7.1	Sunken area adjacent to and running parallel with carriageway edge	200mm depth	45
7.2	Sunken area adjacent to and running parallel with footway	150mm depth	46

	8. Ironworks in the carriageway		
8.1	Level difference within framework also sunken or protruding	40mm depth	47
8.2	Rocking covers	30mm displaced face	48
8.3	Cracked / Broken and missing covers	Yes	49
8.4	Worn / polished covers	Yes	50

	9. Ironworks in the footway		
9.1	Level difference within framework also sunken or protruding	20mm depth	51
9.2	Rocking covers	15mm displaced face	52
9.3	Cracked / Broken and missing covers	Yes	53
9.4	Worn / polished covers	Yes	54

	10. Ironworks in the verge Urban and Rural		
10.1	Cracked / Broken and missing covers	Yes	55

	11. Drainage		
11.1	Substantial running water across carriageway	Yes	56
11.2	Substantial running water across footway	Yes	57
11.3	Substantial standing water at edge of carriageway	Yes	58
11.4	Blocked gully or drainage grip	Yes	59

	12. Road Markings and High Friction Coatings		
12.1	Faded or worn	30% loss	60
	13 Reflective Road Stude		

	13. Reflective Road Studs		
13.1	Missing or defective reflector	Yes	61
13.2	Displaced item on carriageway	Yes	62

	14. Road Restraint System / Pedestrian Barrier / Boundary Walls and Fences		
14.1	Accident damaged or missing	Yes	63

	15. Signs / Bollards / Marker Posts / lights and traffic signals		
15.1	Damaged / misaligned item causing a hazard	Yes	64
15.2	Missing item causing a hazard	Yes	65
15.3	Sign / Bollard illumination failure (not including street lighting)	Yes	66
15.4	Signals not operating correctly / failure (not including street lighting)	Yes	67
15.5	Street lighting columns, Illuminated signs, Beacon and Zebra poles damaged	Yes	68
15.6	Obscured by trees / hedges	Yes	69
15.7	Dirty / faded	Yes	70

	16. Hedges and Trees		
16.1	Unstable tree at risk of collapsing into highway	Yes	71
16.2	Broken and hanging branches	Yes	72
16.3	Reduction of clearance over carriageway	Yes	73
16.3	Reduction of clearance over footway or cycleway	Yes	74

	17. Cattle Grids		
17.1	Longitudinal gaps and missing rails	15mm width and Yes	75

	18. Highway General		
18.1	Oil / debris / mud on highway	Yes	76
18.2	Obstructions in the highway	Yes	77
18.3	Scaffolding presenting a hazard	Yes	78
18.4	Skips / building materials presenting a hazard	Yes	79

	19. Other dangers to the public		
19.1	Anything else considered potentially dangerous	Yes	80

The following should also be considered by the Inspector when deciding on the prioritisation of a defect or deficiency and the level of response required.

- The depth, surface area, or other extent of the defect.
- The location of the defect relative to highway features such as junctions and bends.
- The location of the defect relative to the positioning of users, especially vulnerable users, such as in traffic lanes and wheel tracks.
- The nature and extent of interaction with other defects.
- Weather conditions, especially for freezing of surface water.

Example	Defect	
1.1	Carriageways	Potholes / spalling or other abrupt level difference

Extent	Category Road	Impact	Probability	Risk Factor	Priority Response
Greater than 200mm deep and 150mm wide in all directions	All	5	5	25	1
	2	5	5	25	1
	3a Urban	5	5	25	1
	3a Rural	5	5	25	1
Between 100 and	3b Urban	4	4	16	2
200mm deep and	3b Rural	4	4	16	2
150mm wide in all	4a Urban	3	4	12	3
directions	4a Rural	3	4	12	3
	4b Urban	3	4	12	3
	4b Rural	3	4	12	3
	5	3	4	12	3
	2	5	5	25	1
	3a Urban	4	4	16	2
	3a Rural	4	4	16	2
Between 40 and	3b Urban	3	4	12	3
100mm deep and	3b Rural	3	4	12	3
150mm wide in all	4a Urban	3	3	9	4
directions	4a Rural	3	2	6	4
	4b Urban	3	3	9	4
	4b Rural	3	2	6	4
	5	3	1	3	5

Once a depth of 40mm is reached action is required for repair.

Potholes are a potential hazard to all road users, not just motorists and any assessment must also consider cyclists and motorcyclists.

At formalised / designated pedestrian crossing points the carriageway becomes an extension of the footway, therefore footway intervention levels must prevail at these locations.

This defect can also occur in block paved, stone sett surfaces and the like.

Category 5 carriageways are subject to carriageway intervention levels unless they are formally designated as a pedestrian through route, in which case footway intervention levels will apply. Back streets constructed using setts will only be subject to carriageway intervention levels on account of small level differences already being part of their original construction.

On defined cyclist routes, narrower defects meeting the depth requirements should be considered for repair if the defect is more than 75mm wide and 300mm long in the direction of travel with a sloping exit face or 150mm long for an abrupt exit face.

The defect dimensions specified above refer to those parts of the defect which exceed the intervention depth.

Examples



Pothole in carriageway

Example	Defect	
1.2	Carriageways	Depression or Crowning Heave or Subsidence or Rutting

Extent	Category Road	Impact	Probability	Risk Factor	Priority Response
Greater than 200mm deep and up to 3000mm wide	All	5	5	25	1
	2	5	5	25	1
	3a Urban	5	5	25	1
Between 100 and	3a Rural	5	5	25	1
150mm deep up to	3b Urban	4	4	16	2
1000mm wide or	3b Rural	4	4	16	2
between 150 and	4a Urban	3	4	12	3
200 deep up to	4a Rural	3	4	12	3
2000mm wide	4b Urban	3	4	12	3
	4b Rural	3	4	12	3
	5	3	4	12	3
	2	5	5	25	1
	3a Urban	4	4	16	2
Between 50 and	3a Rural	4	4	16	2
100mm deep up to	3b Urban	3	4	12	3
1000mm wide or	3b Rural	3	4	12	3
between 100 and	4a Urban	3	3	9	4
150 deep up to	4a Rural	3	2	6	4
2000mm wide	4b Urban	3	3	9	4
	4b Rural	3	2	6	4
	5	3	1	3	5

Depression, Crowning, Heave, Subsidence and Rutting if severe can be considered as dangerous as a pothole although not displaying abrupt level difference the minimum intervention will be 50mm depth.

Where an abrupt level difference occurs within an area it shall be measured against the criteria for a pothole.

Excessive Heave or Subsidence should in addition to the Priority Response tabulated above be reported to the Highways Officers Line Manager and investigated appropriately.

This defect can also occur in block paved, stone sett surfaces and the like

Examples



Depression in centre of road



Depression and heave along edge of road

Example	Defect	
2.1	Footways and pedestrian light controlled and other designated Pedestrian Crossing points	Trip Pothole or other abrupt level difference in metalled surface

Extent	Category Footway	Impact	Probability	Risk Factor	Priority Response
Greater than 40mm deep and over 100mm wide in all directions	All	5	5	25	1
Between 20 and	1a, 1, 2	4	5	20	2
40mm deep and	3, 4	4	3	12	3
over 100mm wide in all directions	5	4	2	8	4

Once a depth of 20mm is reached action is required for repair

This defect can also occur in block paved, stone sett surfaces and the like.

Designated Pedestrian Crossing points include locations where there is a clear intention that pedestrians should cross the road, such as tactile crossings and dropped footway kerbs.

Examples



Potholes in pedestrian crossing of side road



Pothole in footway exposing unbound material

Example	Defect	
2.2	Footways and pedestrian light controlled and other designated Pedestrian Crossing points	Trip Pothole or other abrupt level difference in un- metalled surface

Extent	Category Footway	Impact	Probability	Risk Factor	Priority Response
Greater than 100mm deep and over 100mm wide in all directions	All	5	5	25	1
Between 50 and	1a, 1, 2	4	5	20	2
100mm deep and	3, 4	4	3	12	3
over 100mm wide in all directions	5	4	2	8	4

These are usually little used rural footways.

Designated Pedestrian Crossing points include locations where there is a clear intention that pedestrians should cross the road, such as tactile crossings and dropped footway kerbs

Example	Defect	
2.3	Footways and pedestrian light controlled and other designated Pedestrian Crossing points	Depression, Crowning, Heave, Subsidence or Rutting

Extent	Category Footway	Impact	Probability	Risk Factor	Priority Response
Greater than 100mm deep and up to 2000mm wide	All	5	5	25	1
Between 50 and	1a, 1, 2	4	5	20	2
100mm deep and up	3, 4	4	3	12	3
to 1000mm wide	5	4	2	8	4

Depression, Crowning, Heave, Subsidence and Rutting if severe can be considered as dangerous as a pothole although not displaying abrupt level difference the minimum intervention will be 50mm depth

Where an abrupt level difference occurs within an area it shall be measured against the criteria for a pothole

Excessive Heave or Subsidence should in addition to the Priority Response tabulated above be reported to the Highways Officers Line Manager and investigated appropriately.

This defect can also occur in block paved, stone sett surfaces and the like.

Designated Pedestrian Crossing points include locations where there is a clear intention that pedestrians should cross the road, such as tactile crossings and dropped footway kerbs.

Examples



Subsidence in footway

Example	Defect	
2.4	Footways and pedestrian light controlled and other designated Pedestrian Crossing points	Open Joint deeper than 20mm

Extent	Category Footway	Impact	Probability	Risk Factor	Priority Response
Greater than 100mm wide	All	5	5	25	1
Between 40 and 100mm wide	1a, 1, 2	4	3	12	3
	3, 4	4	2	8	4
	5	4	1	4	5

For example, an open joint between two adjacent paving stones should be considered to pose the same risk as an open joint between an item of surface iron work and the surrounding surface.

Designated Pedestrian Crossing points include locations where there is a clear intention that pedestrians should cross the road, such as tactile crossings and dropped footway kerbs.

Examples



Open joint between paving stones

Example	Defect	
2.5	Footways and pedestrian light controlled and other designated Pedestrian Crossing points	Rocking slab / block

Extent	Category Footway	Impact	Probability	Risk Factor	Priority Response
Greater than 40mm displaced face	All	5	5	25	1
Between 15 and	1a, 1, 2	4	5	20	2
40mm displaced	3, 4	4	2	8	4
face	5	4	1	4	5

A rocking or unstable slab will be classed as a defect when the vertical displaced face is 15mm or greater, this is a lesser value than that for a fixed abrupt level difference due to the increased risk associated with the potential movement of a rocking slab.

Designated Pedestrian Crossing points include locations where there is a clear intention that pedestrians should cross the road.

Examples



Loose paving stones

Example	Defect	
2.6	Footways and pedestrian light controlled and other designated Pedestrian Crossing points	Tree root damage

Extent	Category Footway	Impact	Probability	Risk Factor	Priority Response
Greater than	1a, 1, 2	4	4	16	2
100mm level difference	3, 4, 5	4	2	8	4
Between 20 and	1a, 1, 2	4	3	12	3
100mm level difference	3, 4, 5	4	1	4	5

This defect is similar to any other abrupt level difference.

Designated Pedestrian Crossing points include locations where there is a clear intention that pedestrians should cross the road, such as tactile crossings and dropped footway kerbs.

Examples



Tree route damage to footway



Tree route damage to footway

Example	Defect	
3.1	Kerbs not forming part of the footway	Misaligned horizontally

Extent	Category Road	Impact	Probability	Risk Factor	Priority Response
Greater than 100mm into carriageway	All	4	3	12	3
	2	3	2	6	4
	3a Urban	3	2	6	4
	3a Rural	3	2	6	4
Between 40mm and	3b Urban	3	2	6	4
100mm into	3b Rural	2	2	4	5
carriageway	4a Urban	2	2	4	5
carnayeway	4a Rural	2	2	4	5
	4b Urban	2	2	4	5
	4b Rural	2	2	4	5
	5	2	2	4	5
Greater than 100mm away from carriageway	All	2	3	6	4
Between 40mm and 100mm away from carriageway	All	5	5	4	5

If misaligned by more than 40mm then they will be classified as safety defects.

Where there is no footway area immediately adjacent to the kerb then the intervention level can be relaxed.

Missing granite setts in rural areas where no adjacent footway is present should only need a 3 month response time.

Examples



Kerb misaligned horizontally away from carriageway

Example	Defect	
3.2	Kerbs not forming part of the footway	Loose / rocking / misaligned vertically

Extent	Category Road	Impact	Probability	Risk Factor	Priority Response
Greater than 100mm displaced face	All	3	4	12	3
	2	3	3	9	4
	3a Urban	3	3	9	4
	3a Rural	3	3	9	4
Between 40mm and	3b Urban	3	3	9	4
	3b Rural	2	2	4	5
100mm displaced face	4a Urban	2	2	4	5
lace	4a Rural	2	2	4	5
	4b Urban	2	2	4	5
	4b Rural	2	2	4	5
	5	2	1	4	5

Even where no footway is present there may for example be horse traffic or pedestrians walking in the verge to avoid traffic, therefore any vertical misalignment greater than 40mm will be regarded as a safety defect.

Where there is no footway area immediately adjacent to the kerb then the intervention level can be relaxed.

Missing granite setts in rural areas where no adjacent footway is present should only need a 3 month response time.

Example	Defect				
3.3	Kerbs not forming part of the footway	Missing			

Extent	Category Road	Impact	Probability	Risk Factor	Priority Response
	2	3	3	9	4
	3a Urban	3	3	9	4
	3a Rural	3	3	9	4
	3b Urban	3	3	9	4
Yes	3b Rural	2	2	4	5
Tes	4a Urban	2	2	4	5
	4a Rural	2	2	4	5
	4b Urban	2	2	4	5
	4b Rural	2	2	4	5
	5	2	2	4	5

Even where no footway is present there may for example be horse traffic or pedestrians walking in the verge to avoid traffic.

Also the abrupt end of the kerb beyond the missing one could be struck by a passing vehicle.

Where there is no footway area immediately adjacent to the kerb then the intervention level can be relaxed.

Missing granite setts in rural areas where no adjacent footway is present should only need a 3 month response time.

Example	Defect	
4.1	Kerbs contiguous with footway	Misaligned horizontally

Extent	Category Footway	Impact	Probability	Risk Factor	Priority Response
Greater than 50mm	All	4	5	20	2
Between 20mm and	1a, 1, 2	4	3	12	3
50mm	3, 4, 5	4	1	4	5

For a person stepping on or off the footway this defect can cause a tripping or stumbling incident.



Kerb misaligned horizontally

Example	Defect	
4.2	Kerbs contiguous with footway	Loose / rocking / misaligned vertically

Extent	Category Footway	Impact	Probability	Risk Factor	Priority Response
Greater than 40mm displaced face	All	4	5	20	2
Between 20mm and	1a, 1, 2	4	3	12	3
40mm displaced face	3, 4, 5	4	1	4	5

This is a similar defect to a rocking slab but not being in the main area of footfall will be classified as a safety defect when the displaced face is 20mm or greater.



Kerb misaligned vertically

Example	Defect	
4.3	Kerbs contiguous with footway	Missing

Extent	Category	Impact	Probability	Risk	Priority
	Footway			Factor	Response
Yes	1a, 1, 2	5	4	20	2
	3, 4, 5	4	2	8	4

This defect can potentially be the causation of a tripping incident. The existence of a missing kerb within a continuous length of kerbs would be classified as a safety defect.



Missing kerb

Example	Defect	
4.4	Kerbs contiguous with footway	Open joint or gap

Extent	Category Footway	Impact	Probability	Risk Factor	Priority Response
Greater than 150mm	All	5	4	20	2
Between 80 and	1a, 1, 2	4	3	12	3
150mm	3, 4, 5	4	2	8	4

With no difference in vertical height and only of a narrow width, and not in the main area of foot fall of a footway the open joint between two adjacent kerbs will only be considered a safety defect if the gap is greater than 80mm.

The measurement of the gap would also include any spalling or other damage to either kerb.

Examples



Gap between kerbs

Example	Defect	
5.1	Cycle lanes / ways	Pothole, trench or other abrupt level difference in metalled surface

Extent	Category Road	Impact	Probability	Risk Factor	Priority Response
Greater than 100mm deep	All	5	5	25	1
Between 50 and 100mm deep	All	5	4	20	2
Between 20 and 50mm deep	All	4	3	12	3

Once a depth of 20mm is reached or has an exposed unbound foundation action is required for repair.

On defined cyclist routes, defined cyclist routes, narrower defects meeting the depth requirements should be considered for repair if the defect is more than 75mm wide and 300mm long in the direction of travel with a sloping exit face or 150mm long for an abrupt exit face. These defect dimensions refer to the parts of the defect which exceed the intervention depth.



Potholes



Potholes

Example	Defect	
5.2	Cycle lanes / ways	Pothole, trench or other abrupt level difference in un metalled surface

Extent	Category Road	Impact	Probability	Risk Factor	Priority Response
Greater than 200mm deep	All	4	5	20	2
Between 100 and 200mm deep	All	3	3	9	4

In an unmetalled surface any level difference will be less abrupt than in an equivalent metalled surface and consequently the extents of any defect can be greater before presenting a similar level of inconvenience to the user.

Example	Defect	
6.1	Verges in Urban areas	Sunken area adjacent to and running parallel with carriageway edge

Extent	Category Road	Impact	Probability	Risk Factor	Priority Response
Greater than 300mm deep	All	4	5	20	2
	2	4	3	12	3
	3a Urban	4	3	12	3
	3a Rural	3	3	9	4
	3b Urban	3	3	9	4
Between 200mm	3b Rural	3	1	3	5
and 300mm deep	4a Urban	3	1	3	5
	4a Rural	3	1	3	5
	4b Urban	3	1	3	5
	4b Rural	3	1	3	5
	5	3	1	3	5

This relates to the verge within 300mm of the edge of the surfaced carriageway. Any detriment to the verge beyond 300mm from the edge of the surfaced carriageway will be assessed at the Highways Officers discretion with due regard to the safety of the highway user.

A purposely excavated channel in the verge for the purpose of highway drainage is not to be considered as part of this defect.

Examples



Damaged verge

Example	Defect	
6.2	Verges in Urban areas	Sunken area adjacent to and running parallel with footway

Extent	Category Footway	Impact	Probability	Risk Factor	Priority Response
Greater than 200mm deep	All	4	5	20	2
Between 100 and 200mm deep	All	3	3	9	4

This relates to the verge within 300mm of the edge of the surfaced footway. Any detriment to the verge beyond 300mm from the edge of the surfaced footway will be assessed at the Highways Officers discretion with due regard to the safety of the highway user.

A purposely excavated channel in the verge for the purpose of highway drainage is not to be considered as part of this defect.

Examples



Damaged verge

Example	Defect	
7.1	Verges in Rural areas	Sunken area adjacent to and running parallel with carriageway edge

Extent	Category Road	Impact	Probability	Risk Factor	Priority Response
Greater than 300mm deep	All	5	4	20	2
	2	4	3	12	3
	3a Urban	4	3	12	3
	3a Rural	4	2	8	4
	3b Urban	4	2	8	4
Between 200mm	3b Rural	4	1	4	5
and 300mm deep	4a Urban	4	1	4	5
	4a Rural	4	1	4	5
	4b Urban	4	1	4	5
	4b Rural	4	1	4	5
	5	3	1	3	5

This relates to the verge within 300mm of the edge of the surfaced carriageway. Any detriment to the verge beyond 300mm from the edge of the surfaced carriageway will be assessed at the Highways Officers discretion with due regard to the safety of the highway user.

A purposely excavated channel in the verge (including ditches and grips) for the purpose of highway drainage is not to be considered as part of this defect. Such situations will be assessed at the Highways Officers discretion and, if necessary, the advice of the Maintenance Manager sought. It should also be noted that many roadside ditches/ watercourses are the maintenance responsibility of adjacent landowners.

Example	Defect	
7.2	Verges in Rural areas	Sunken area adjacent to and running parallel with footway

Extent	Category Footway	Impact	Probability	Risk Factor	Priority Response
Greater than 300mm deep	All	5	4	20	2
Between 150 and 300mm deep	All	3	3	9	4

This relates to the verge within 300mm of the edge of the surfaced footway. Any detriment to the verge beyond 300mm from the edge of the surfaced footway will be assessed at the Highways Officers discretion with due regard to the safety of the highway user.

A purposely excavated channel in the verge (including ditches and grips) for the purpose of highway drainage is not to be considered as part of this defect. Such situations will be assessed at the Highways Officers discretion and, if necessary, the advice of the Maintenance Manager sought. It should also be noted that many roadside ditches/ watercourses are the maintenance responsibility of adjacent landowners.

Example	Defect	
8.1	Ironwork in the Carriageway	Level difference within framework also sunken or protruding

Extent	Category Road	Impact	Probability	Risk Factor	Priority Response
Greater than 100mm deep	All	5	5	25	1
	2	4	5	20	2
	3a Urban	4	4	16	2
	3a Rural	4	3	12	3
	3b Urban	3	4	12	3
Between 40 and	3b Rural	3	3	9	4
100mm deep	4a Urban	3	3	9	4
	4a Rural	3	2	6	4
	4b Urban	3	3	9	4
	4b Rural	3	2	6	4
	5	3	1	3	5

These defects are of similar significance to an abrupt edge defect associated with a pothole and accordingly when a level difference of 40mm or greater is recorded will be classified as a safety defect.

This includes covers within cycleway and cycle lanes.

Defects for statutory undertakers apparatus/ironworks are to be reported to the appropriate company using the NRSWA 1991 Section 81 process.

Example	Defect	
8.2	Ironwork in the Carriageway	Rocking Covers

Extent	Category Road	Impact	Probability	Risk Factor	Priority Response
Greater than 80mm displaced face	All	5	5	25	1
	2	4	5	20	2
	3a Urban	4	4	16	2
	3a Rural	4	3	12	3
Detween 20 and	3b Urban	3	4	12	3
Between 30 and	3b Rural	3	3	9	4
80mm displaced face	4a Urban	3	3	9	4
lace	4a Rural	3	2	6	4
	4b Urban	3	3	9	4
	4b Rural	3	2	6	4
	5	3	1	3	5

When the displaced face has reached 30mm this will be regarded as a safety defect

It should be noted that a displaced face of say 30mm could represent a total rocking movement of 60mm, ie 30mm above and 30mm below normal datum and pro-rata for other values of displaced face.

This includes covers within cycleway and cycle lanes

Defects for statutory undertakers apparatus/ironworks are to be reported to the appropriate company using the NRSWA 1991 Section 81 process.

Example	Defect	
8.3	Ironwork in the Carriageway	Cracked / Broken and missing covers

Extent	Category Road	Impact	Probability	Risk Factor	Priority Response
Missing	All	5	5	25	1
	2	5	4	20	2
	3a Urban	4	3	12	3
	3a Rural	3	3	9	4
	3b Urban	3	2	6	4
Cracked and broken	3b Rural	3	1	3	5
but still insitu	4a Urban	3	1	3	5
	4a Rural	3	1	3	5
	4b Urban	3	1	3	5
	4b Rural	3	1	3	5
	5	3	1	3	5

Highways Officer to immediately make safe by replacing cover if possible or cone off the defect.

This includes covers within cycleway and cycle lanes,

Defects for statutory undertakers apparatus/ironworks are to be reported to the appropriate company using the NRSWA 1991 Section 81 process.



Displaced gully grate



Missing Inspection cover

Example	Defect	
8.4	Ironwork in the Carriageway	Worn / Polished covers

Extent	Category Road	Impact	Probability	Risk Factor	Priority Response
	2	4	3	12	3
	3a Urban	4	3	12	3
	3a Rural	3	3	9	4
Yes covers with	3b Urban	3	2	6	4
dimensions	3b Rural	3	2	6	4
exceeding 200mm x	4a Urban	3	1	3	5
200mm	4a Rural	3	1	3	5
	4b Urban	3	1	3	5
	4b Rural	3	1	3	5
	5	2	1	2	5

This defect has the potential to exacerbate a skidding related incident as so excessively worn or polished covers should be replaced or where appropriate reported to the relevant utility company for replacement.

This includes covers in cycleways.

Defects for statutory undertakers apparatus / ironworks shall be reported to the appropriate company using the NRSWA 1991 Section 81 process.

Examples



Worn and polished inspection cover

Example	Defect	
9.1	Ironwork in the Footway	Level difference within framework also sunken or protruding

Extent	Category Footway	Impact	Probability	Risk Factor	Priority Response
Greater than 40mm deep	All	5	5	25	1
Batwaan 20 and	1a, 1, 2	4	4	16	2
Between 20 and 40mm deep	3, 4	4	3	12	3
4011111 deep	5	4	2	8	4

The level difference within the framework of an item of Ironwork or sunken/protruding Ironwork will be as potentially dangerous as a pothole with an abrupt level difference.

Defects for statutory undertakers apparatus / ironworks be reported to the appropriate company using the NRSWA 1991 Section 81 process

Examples



Protruding Inspection cover

Example	Defect	
9.2	Ironwork in the Footway	Rocking covers

Extent	Category Footway	Impact	Probability	Risk Factor	Priority Response
Greater than 30mm displaced face	All	5	5	25	1
Between 15 and	1a, 1, 2	4	4	16	2
30mm displaced	3, 4	4	3	12	3
face	5	4	2	8	4

This is similar to the danger presented by a rocking flag stone and so when the displaced face is 15mm or greater will be classified as a safety defect

It should be noted that a displaced face of say 30mm could represent a total rocking movement of 60mm, ie 30mm above and 30mm below normal datum and pro-rata for other values of displaced face.

Defects for statutory undertakers apparatus / ironworks be reported to the appropriate company using the NRSWA 1991 Section 81 process.



Rocking inspection cover

Example	Defect	
9.3	Ironwork in the Footway	Cracked / Broken and missing covers

Extent	Category	Import	Probability	Risk	Priority
Extent	Footway	Impact		Factor	Response
Missing	All	5	5	25	1
Cracked and Broken but still insitu	1a, 1, 2	4	4	16	2
	3, 4	4	3	12	3
	5	4	2	8	4

Highways Officer to immediately make safe by replacing cover of possible or cone off the defect.

Defects for statutory undertakers apparatus / ironworks be reported to the appropriate company using the NRSWA 1991 Section 81 process.

Examples



Damaged cover



Missing cover

Example	Defect				
9.4	Ironwork in the Footway	Worn / polished covers			

Extent	Category	Impact	Probability	Risk	Priority
	Footway			Factor	Response
	1a, 1, 2	4	3	12	3
Yes	3, 4	4	2	8	4
	5	4	1	4	5

Excessively worn or polished ironwork should be regarded as in need of replacement.

Defects for statutory undertakers apparatus / ironworks be reported to the appropriate company using the NRSWA 1991 Section 81 process.

Example	Defect	
10.1	Ironworks in the Verge Urban and Rural	Cracked / Broken and missing covers

Extent	Category Road	Impact	Probability	Risk Factor	Priority Response
Missing	All	5	5	25	1
Cracked and broken but still insitu	All	3	1	3	5

Highways Officer to immediately make safe missing cover by replacing cover if possible or cone off the defect.

Defects for statutory undertakers apparatus / ironworks be reported to the appropriate company using the NRSWA 1991 Section 81 process.

Examples



Broken Inspection cover

Example	Defect	
11.1	Drainage	Substantial running water across carriageway

Extent	Category Road	Impact	Probability	Risk Factor	Priority Response
	2	5	4	20	2
	3a Urban	4	4	16	2
Primarily caused by	3a Rural	4	3	12	3
ineffective, damaged	3b Urban	3	3	9	4
/ non working	3b Rural	3	3	9	4
highway infrastructure depth	4a Urban	3	3	9	4
in wheel-path of	4a Rural	3	2	6	4
over 100mm	4b Urban	3	1	3	5
	4b Rural	3	1	3	5
	5	3	1	3	5

This can cause icing of the carriageway during the winter months.

As soon as practicable notwithstanding the priority responses above the street cleansing team should be called to attempt to clear any blockage. The response times for the street cleansing teams shall be as defined in the Highway Maintenance Contract.



Water flowing across carriageway due to blocked highway drain

Example	Defect	
11.2	Drainage	Substantial running water across footway

Extent	Category Footway	Impact	Probability	Risk Factor	Priority Response
Primarily caused by ineffective, damaged / non-working	1a, 1, 2, 3, 4	4	2	8	4
highway infrastructure	5	4	1	4	5

This can cause icing of the footway during the winter months

As soon as practicable notwithstanding the priority responses above the street cleansing team should be called to attempt to clear any blockage.

Example	Defect	
11.3	Drainage	Substantial standing water at edge of carriageway

Extent	Category Road	Impact	Probability	Risk Factor	Priority Response
	2	5	5	25	1
	3a Urban	4	5	20	2
Primarily caused by	3a Rural	4	5	20	2
ineffective, damaged	3b Urban	4	5	20	2
/ non-working	3b Rural	4	5	20	2
highway infrastructure depth	4a Urban	3	3	9	4
in wheel-path of	4a Rural	3	2	6	4
over 100mm	4b Urban	3	3	9	4
	4b Rural	3	2	6	4
	5	3	1	3	5

Due to the nature and diversity of defects which could be classed as standing water / flooding, only those which represent an immediate or imminent hazard should be dealt with as Category 1 Defects.

It is anticipated that especially where there is no highway drainage infrastructure present that any response will be by the deployment of 'Flood' boards.

Notwithstanding the guidance above, all other standing water / flooding events shall be classified at the Highways Officers discretion.



Standing water during heavy rainfall

Example	Defect	
11.4	Drainage	Blocked gully or drainage grip

Extent	Category Road	Impact	Probability	Risk Factor	Priority Response
	2	4	3	12	3
	3a Urban	3	3	9	4
	3a Rural	3	3	9	4
In dip / low point and	3b Urban	3	3	9	4
likely to result in	3b Rural	3	3	9	4
standing water on	4a Urban	2	2	4	5
the highway	4a Rural	2	2	4	5
	4b Urban	2	2	4	5
	4b Rural	2	2	4	5
	5	2	1	2	5

If standing water is likely to result from any blockage then the response should be as prioritised above.

Reference should also be made to any action required by sections 11.1 to 11.3.



Gullies blocked by silt

Example	Defect	
12.1	Road Markings and High Friction Coatings	Faded or worn

Extent	Category Road	Impact	Probability	Risk Factor	Priority Response
Greater than 30%	2, 3a, 3b	5	2	10	3
loss to junction markings and double white markings including associated arrows	4a, 4b, 5	3	2	6	4
Greater than 60%	2	3	2	6	4
loss to all other white markings	3a, 3b, 4a, 4b, 5	3	1	3	5
Greater than 60%	2	3	1	3	5
loss to all waiting restriction markings	3a, 3b, 4a, 4b, 5	2	1	2	5
Greater than 30% loss to High Friction	2, 3a, 3b	4	1	4	5
Coating	4a, 4b, 5	3	1	3	5

Junction markings are defined as:

The solid Stop Line and associated STOP wording.

The dashed Give Way lines and associated triangle

Any centre line markings on roads less than 5.5m in width should not be replaced without prior confirmation with Line Manager.

High Friction coating does not include coloured surfaces. Coloured surfaces are not recorded as a defect but should be reported to Line Manager for determination of appropriate action.

If defective areas cannot be repaired within the specified timescales, then appropriate warning signs should be erected until the permanent repairs have been completed.

Examples



Approx 60% faded markings



Approx 30% faded markings



Approx 50% faded high friction coating

Example	Defect	
13.1	Reflective Road Studs	Missing or defective reflector

Extent		Category Road	Impact	Probability	Risk Factor	Priority Response
	More than	2, 3a, 3b	4	3	12	3
Double white line	10 consecutive	4a, 4b	3	1	3	5
system	Between 5	2, 3a, 3b	4	2	8	4
System	and 10 consecutive	4a, 4b	3	1	3	5
Centre	More than	2, 3a, 3b	4	2	8	4
lane/edge markings	15 consecutive	4a, 4b	3	1	3	5

If shoes are missing, then the Highways Officer should pay attention to the possibility of any displaced items being laid on the carriageway.

This particular defect relates to the loss of reflectivity of the road studs as assessed by visual inspection. If necessary, further assessment can be made via a specialist inspection. Additionally, an inspection during the hours of darkness may be needed to confirm reflectivity

Example	Defect	
13.2	Reflective Road Studs	Displaced item on carriageway

Extent	Category Road	Impact	Probability	Risk Factor	Priority Response
Yes	All	5	5	25	1

Comments
A displaced road stud on the carriageway should be removed as soon as possible.
The remaining void as a consequence of the displaced road stud to be assessed against the criteria for potholes

Example	Defect	
14.1	Vehicle Restraint System / pedestrian barrier / boundary walls and fences	Accident damaged or missing

Extent	Category Road	Impact	Probability	Risk Factor	Priority Response
	2	5	2	10	3
	3a Urban	3	2	6	4
	3a Rural	3	2	6	4
	3b Urban	3	2	6	4
Yes	3b Rural	3	2	6	4
165	4a Urban	3	2	6	4
	4a Rural	3	1	3	5
	4b Urban	3	2	6	4
	4b Rural	3	1	3	5
	5	3	1	3	5

Before requesting any repairs discuss with Line Manager for the requirements at the particular location

Minor repairs should be issued to the VRS Contractor for repair. Defective Vehicle Restraint Systems should also be reported to the Highway Asset Management team.

Boundary walls and fences are not usually maintained by the highway authority but if, by being damaged or missing, a dangerous hazard is presented then the area should be made safe and if appropriate the owners contacted.

The adjacent landowner must be notified of the need to take action in respect of any safety defect.

Example	Defect				
15.1	Signs / Bollards / Marker Posts / lights and traffic signals	Damaged / misaligned item causing a hazard			

Extent	Category Road	Impact	Probability	Risk Factor	Priority Response
	2	5	4	20	2
	3a Urban	3	4	12	3
	3a Rural	3	4	12	3
	3b Urban	3	4	12	3
Yes	3b Rural	3	4	12	3
res	4a Urban	3	3	9	4
	4a Rural	3	3	9	4
	4b Urban	3	3	9	4
	4b Rural	3	3	9	4
	5	3	1	3	5

Notwithstanding the risk assessment above if any item is laid in the highway or is likely to cause a serious incident the Highways Officer should exercise their discretion to have the item removed as soon as possible.

Example	Defect	
15.2	Signs / Bollards / Marker Posts / lights and traffic signals	Missing item causing a hazard

Extent	Category Road	Impact	Probability	Risk Factor	Priority Response
	2	4	3	12	3
	3a Urban	3	2	6	4
	3a Rural	3	2	6	4
	3b Urban	3	2	6	4
Yes	3b Rural	3	2	6	4
Tes	4a Urban	2	1	2	5
	4a Rural	2	1	2	5
	4b Urban	2	1	2	5
	4b Rural	2	1	2	5
	5	2	1	2	5

A missing item will be regarded as a safety defect.

Note that where missing illuminated bollards are identified, the situation should be reported to the Road Lighting team.

The absence of an information sign is not in itself a safety defect; however, the absence of a warning sign should be treated as a safety defect. In such circumstances temporary warning signs may be needed to comply with the above response times.

Examples



Missing keep left bollard

Example	Defect	
15.3	Signs / Bollards / Marker Posts / lights and traffic signals	Sign / Bollard illumination failure (not including street lighting)

Extent	Category Road	Impact	Probability	Risk Factor	Priority Response
	2	4	3	12	3
	3a Urban	4	3	12	3
	3a Rural	4	3	12	3
	3b Urban	4	2	8	4
Yes	3b Rural	4	2	8	4
Tes	4a Urban	3	2	9	4
	4a Rural	3	2	9	4
	4b Urban	3	2	9	4
	4b Rural	3	2	9	4
	5	2	2	4	5

Comments
Defect to be reported to Road Lighting team

Example	Defect	
15.4	Signs / Bollards / Marker Posts / lights and traffic signals	Signals not operating correctly / failure (not including street lighting)

Extent	Category Road	Impact	Probability	Risk Factor	Priority Response
Yes Signals	All	3	5	15	2

Comments
Failure of Signals to be reported to Traffic Engineering Team

Example	Defect	
15.5	Signs / Bollards / Marker Posts / lights and traffic signals	Street Lighting Columns, Illuminated Signs, Beacon and Zebra poles damaged

Extent	Category Road	Impact	Probability	Risk Factor	Priority Response
Accident damage (1)	All	5	5	25	1
Door off, wires exposed ⁽²⁾	All	5	4	20	2
Column/sign post leaning	All	4	2	8	4
Corrosion, Cracking or Spalling	All	3	4	12	3
Lantern/bracket out of alignment	All	3	2	6	4

Priority 1 and 2 defects must be reported to the Road Lighting Team immediately for action. All other instances must be passed to the Road Lighting Team at the earliest opportunity.

Examples



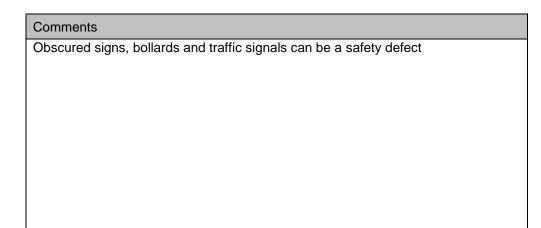
Damaged in RTA

Corrosion

Spalling Concrete

Example	Defect	
15.6	Signs / Bollards / Marker Posts / lights and traffic signals	Obscured by trees / hedges

Extent	Category Road	Impact	Probability	Risk Factor	Priority Response
	2	4	3	12	3
	3a Urban	3	3	9	4
	3a Rural	4	3	12	3
	3b Urban	3	3	9	4
Yes	3b Rural	3	2	6	4
165	4a Urban	2	2	4	5
	4a Rural	2	2	4	5
	4b Urban	2	2	4	5
	4b Rural	2	2	4	5
	5	2	2	4	5





Street lights hidden in trees



Signs hidden by hedges

Example	Defect	
15.7	Signs / Bollards / Marker Posts / lights and traffic signals	Dirty / faded

Extent	Category Road	Impact	Probability	Risk Factor	Priority Response
Yes	2	4	3	12	3
	3a Urban	3	2	6	4
	3a Rural	3	2	6	4
	3b Urban	3	2	6	4
	3b Rural	3	2	6	4
	4a Urban	3	2	6	4
	4a Rural	3	2	6	4
	4b Urban	3	1	3	5
	4b Rural	3	1	3	5
	5	2	1	2	5

Dirty, faded and signs with loss of reflectivity can be particularly difficult to see during the hours of darkness.

Damaged and/ or bent signs or signs obscured by graffiti may be a defect. An additional inspection may be required during the hours of darkness to confirm reflectivity.

Action should be taken to either clean or replace signs is required within the timescales above.



Dirty road sign

Example	Defect		
16.1	Hedges and Trees	Unstable tree at risk of collapsing into highway	

Extent	Category Road	Impact	Probability	Risk Factor	Priority Response
Yes	All	5	4	20	2

Comments
If the bush or tree is growing within the highway extents it will be the responsibility of the Highway Authority. If the bush or tree is growing outside of the highway extents (boundary walls, hedges and fences are usually the responsibility of the adjacent property owner) the Highways Officer should make contact with the property owner and request the cutting back or removal in accordance with the Highways Act 1980. Damage caused by tree roots should be assessed and dealt with in accordance with the footway criteria in examples 2.1 to 2.6.

Example	Defect	
16.2	Hedges and Trees	Broken and hanging branches

Extent	Category Road	Impact	Probability	Risk Factor	Priority Response
	2	4	4	16	2
	3a Urban	4	4	16	2
	3a Rural	4	4	16	2
	3b Urban	4	4	16	2
Yes	3b Rural	4	4	16	2
165	4a Urban	3	4	12	3
	4a Rural	3	4	12	3
	4b Urban	3	4	12	3
	4b Rural	3	3	9	4
	5	2	3	6	4

If the bush or tree is growing within the highway extents it will be the responsibility of the Highway Authority. If the bush or tree is growing outside of the highway extents (boundary walls, hedges and fences are usually the responsibility of the adjacent property owner) the Highways Officer should make contact with the property owner and request the cutting back or removal in accordance with the Highways Act 1980.

Example	Defect	
16.3	Hedges and Trees	Reduction of clearance over carriageway

Extent	Category Road	Impact	Probability	Risk Factor	Priority Response
	2	5	4	20	2
	3a Urban	4	3	12	3
	3a Rural	4	3	12	3
	3b Urban	4	3	12	3
Less than 5.1 metre	3b Rural	4	3	12	3
clearance	4a Urban	4	3	12	3
	4a Rural	4	3	12	3
	4b Urban	4	3	12	3
	4b Rural	4	3	12	3
	5	4	2	8	4

Overhanging foliage could force road users towards the centre of the carriageway

If the bush or tree is growing within the highway extents it will be the responsibility of the Highway Authority. If the bush or tree is growing outside of the highway extents (boundary walls, hedges and fences are usually the responsibility of the adjacent property owner) the Highways Officer should make contact with the property owner and request the cutting back of the foliage in accordance with the Highways Act 1980.

Minimum clearance above carriageway should be 5.05 metres.



Tree obstructing carriageway

Example	Defect	
16.4	Hedges and Trees	Reduction of clearance over footway or cycleway

Extent	Category Footway	Impact	Probability	Risk Factor	Priority Response
Less than 2.1 metre vertical clearance	All	5	4	20	2
Encroaching less than 1.2 metre width remaining	All	3	2	6	4

If the bush or tree is growing within the highway extents, it will be the responsibility of the Highway Authority. If the bush or tree is growing outside of the highway extents (boundary walls, hedges and fences are usually the responsibility of the adjacent property owner) the Highways Officer should make contact with the property owner and request the cutting back or removal in accordance with NYC's Trees in the highway policy and the Highways Act 1980.

Minimum clearance above footway should be 2.4 metres.



Tree obstructing path

Example	Defect	
17.1	Cattle Grids	Longitudinal gaps and missing rails

Extent	Category Road	Impact	Probability	Risk Factor	Priority Response
Missing Rails	All	4	4	16	2
Longitudinal gap greater than 15mm	All	4	3	12	3

Highways Officer to park inspection vehicle in a safe location and carry out a visual inspection from the side of the road.

In addition to the above all items indicated in Appendix E of this manual should be visually inspected at all cattle grids during each routine carriageway inspection.





Missing Rail





Longitudinal gap greater than 15mm

Example	Defect	
18.1	Oil/ debris/ mud on carriageway or footway	Oil / debris / mud on highway

Extent	Category Road	Impact	Probability	Risk Factor	Priority Response
Yes	All	5	5	25	1

Comments
The procedure in Appendix D of this manual should be followed.
The Highways Officer will use his judgement to determine whether a particular situation is a safety defect



Loose material in centre of road

Example	Defect	
18.2	Highway General	Obstructions in the highway

Extent	Category Road	Impact	Probability	Risk Factor	Priority Response
Yes	All	5	5	25	1

Objects such as the fallen road works sign shown below present an immediate or imminent hazard to all highway users and should therefore be dealt with as a Category 1 defect.

Due to the nature and diversity of defects which can be classed as a General Hazard, only those which represent an immediate or imminent hazard should be dealt with as Category 1 defects.

All other defects identified as a General Hazard that do not represent a immediate or imminent hazard are to be classified at the Highways Officers discretion.



Fallen sign

Example	Defect	
18.3	Highway General	Scaffolding presenting a hazard

Extent	Category Road	Impact	Probability	Risk Factor	Priority Response
	2	5	5	25	1
	3a Urban	5	4	20	2
	3a Rural	5	4	20	2
Vac	3b Urban	5	4	20	2
	3b Rural	5	4	20	2
Yes	4a Urban	5	4	20	2
	4a Rural	5	4	20	2
	4b Urban	5	4	20	2
	4b Rural	5	4	20	2
	5	5	3	15	2

Highways Officer to make contact with owner of scaffolding and arrange remedial works and or make safe by other traffic management measures in accordance with the response times shown above.

Example	Defect	
18.4	Highway General	Skips / building materials presenting a hazard

Extent	Category Road / Footway	Impact	Probability	Risk Factor	Priority Response
Less than 1m of footway or 3m of carriageway remaining	All	5	5	25	1
	3a Urban	5	4	20	2
	3a Rural	5	4	20	2
	3b Urban	5	4	20	2
	3b Rural	5	4	20	2
In - Carriageway	4a Urban	5	3	15	2
	4a Rural	5	3	15	2
	4b Urban	5	3	15	2
	4b Rural	5	3	15	2
	5	5	3	15	2
	1a, 1, 2	4	4	16	2
In – Footway	3, 4, 5	4	4	16	2

Highways Officer to make contact with owner of skip or building materials and arrange remedial works and or make safe by other traffic management measures in accordance with the response times shown above.

Examples



Building material

80 OFFICIAL

Example	Defect	
19.1	Other dangers to the public	Anything else considered potentially dangerous

Extent	Category Road / Footway	Impact	Probability	Risk Factor	Priority Response
Yes	All	basis utiliz	ent to be carri ting Risk Mat nual to determ Response	rix in part 3 anine appropr	section 3.4

Comments
This will be at the Highways Officers discretion and any hazards found should be assessed using the risk matrix in part 3 section 3.4 of this manual

Appendix A

Glossary of Terms

Main Definitions

Ad-hoc Inspection	An Inspection for the specific purpose, case, or situation at hand (ie undertaken in addition to any planned cyclic inspection).
Cyclic Inspections	Inspections occurring at regular predetermined intervals.
Data Capture Device	An electronic machine for converting information into a form that can be handled by a computerised system.
Due Date	The planned date by which an inspection should be carried out.
Insight	The computerised Highway Management Information System used by North Yorkshire Council to store and manage all data and produce reports from safety inspections.
Intervention Level	The standard of asset condition below which remedial works should be undertaken subject to risk assessment
Statutory Undertaker	Any organisation that provides electric, gas, telephone, water, sewerage and television cable systems services to the general public. In this document references to Statutory Undertakers equally applies to NRSWA S50 licence holders.
Highways Officer	Any officer of the Council who is authorised and trained to undertake Highway Safety Inspections.
Road AI	Artificial intelligence which is used to collate highway condition data and asset inventory data such as road signs, road linings and markings.

Appendix B

Removed from 2017 reviewed document

Appendix C

Schedule of Related Documentation and Legislation.

Legislation relevant to and / or referred to in this document

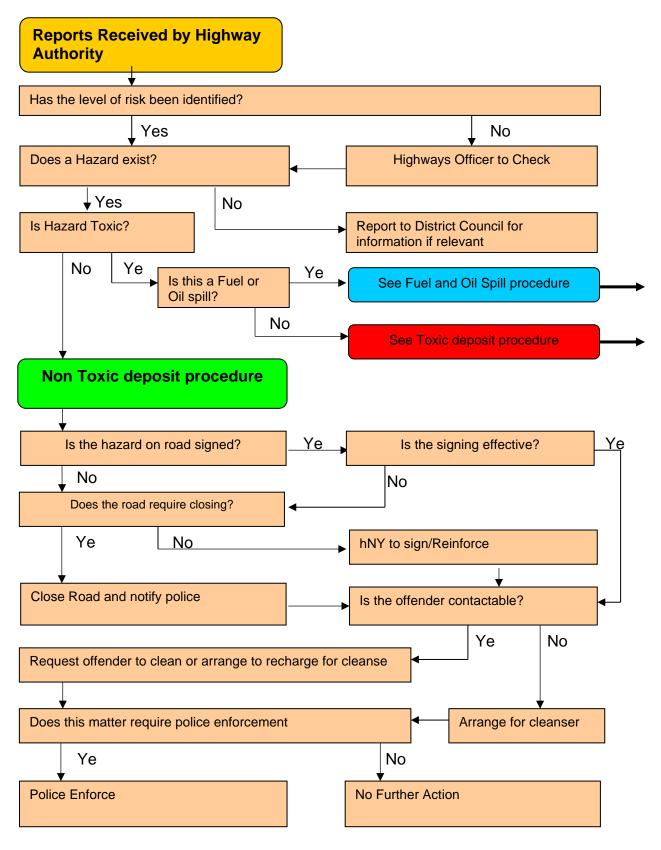
The Highways Act 1980 The New Roads and Street Works Act 1991 Road Traffic Regulation Act 1984 Traffic Signs, Regulations & General Directions 2016 Road Traffic Act 1988 Road Traffic Reduction Act 1997 The Local Authorities (Transport Charges) Regulations 1998 The Transport Act 2000 The Traffic Management Act 2004 Railways and Transport Safety Act 2003 Equality Impact Assessment

Further Documentation

Well-managed Highway Infrastructure - A Code of Practice for Highway Maintenance Management October 2016 North Yorkshire Council Highway Maintenance Plan – Policy and Standards, April 2006 Traffic Signs Manual (Chapters 1 – 8) Code of Practice for Street Works Inspections April 2023

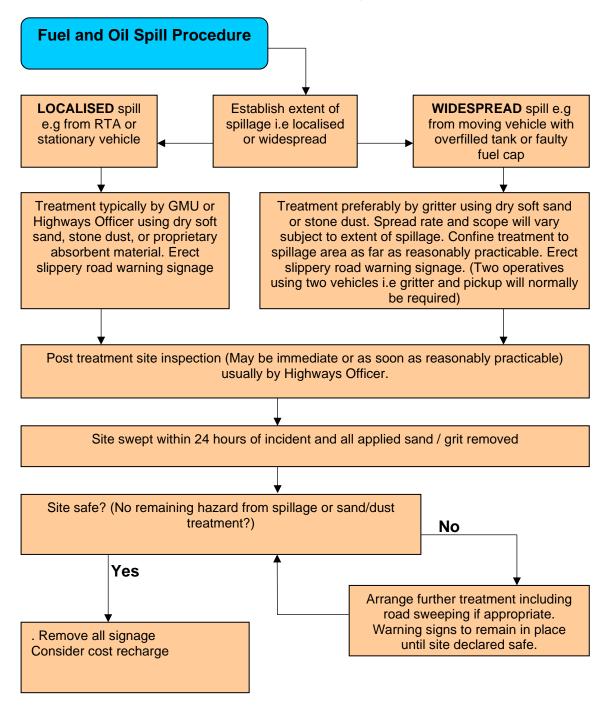
Appendix D:

Toxic and Non Toxic deposits on the Highway



Appendix D: continued

Toxic and Non Toxic deposits on the Highway



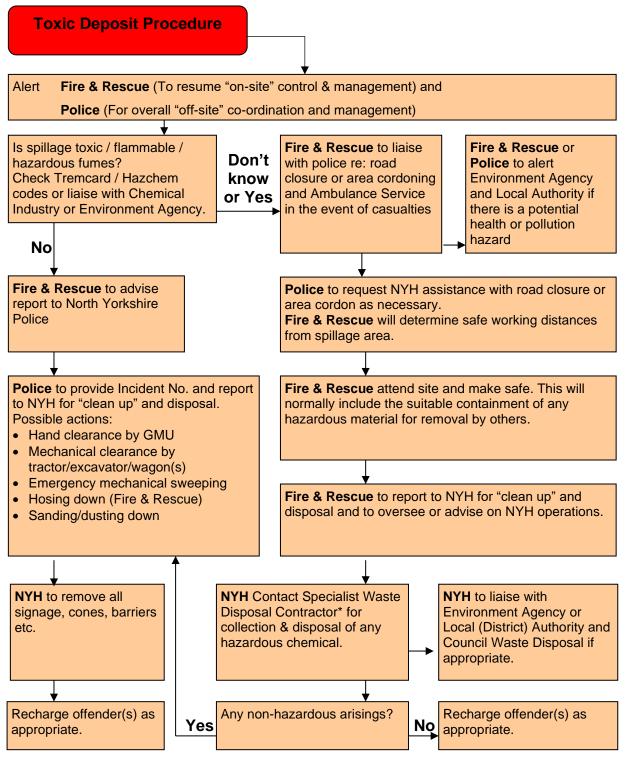
All actions/decisions should be recorded to assist in possible cost recharging and claims defence.

Any significant spillage which enters a watercourse or drainage system should be reported to the emergency services and / or the Environment Agency.

Petrol spillages do not usually warrant sanding treatment as they will readily evaporate

Appendix D: continued

Toxic and Non Toxic deposits on the Highway



i) With the role of on-site control & management Fire & Rescue will be involved in most aspects of the response, including standing-by during the non- emergency spillage/materials recovery phase to ensure continued safety on and around the spillage site

ii) NYH is North Yorkshire Highways.

Appendix E:

Cattle Grid Visual Inspection Report

Grid Name		Road No	
Grid Reference		Area	
Inspected by		Date Inspected	
Condition Report	To be marked Good /	Fair / Poor as approp	riate

Item No	Description	Condition	Remarks
1	Running Rails		
2	Support Beams		
3	Welding		
4	Holding Down Bolts		
5	Concrete Pit		
6	Fencing		
7	Bypass Gate		
8	Bypass route		
9	Drainage		
10	Other		

* I have today inspected the grid and report as above

* I wish to arrange a special inspection of this grid

* Delete as appropriate