

Drainage Inspection

Scope

- Includes: Routine manual inspection of all drainage systems on Network Rail controlled infrastructure
- Excludes: Specialist inspection of drainage such as Dye tracing, Sonar or CCTV

Preparation

Tools, equipment and plant items required but not limited to:
Manual tools as appropriate to type of inspection may include:

- Gully grabs
- Drain Keys

Work planning considerations:

- Access over third party land
- Confined spaces
- Control of discharges into watercourses
- Leptospirosis (Weils disease)
- Hand washing facilities

Method

Routine inspection of the drainage shall be undertaken and recorded in accordance with NR/SP/TRK/9006 to keep the system free flowing and serviceable.

1. Inspections shall record details and condition of:
 - location (ELR, Track ID, Mileage)
 - type of drainage (pipe, channels, culverts and ditches etc)
 - direction of flow
 - outfall location
 - construction material or type
 - chamber size
 - type of chamber (including cover details)
 - type of pipes
 - pipe diameters
 - invert levels
2. Locate start of drainage run.
3. Lift cover and assess conditions
 - Standing
 - Flowing
 - Empty
 - Full

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- Sluggish
 - Clear
4. Trace up/down stream, to location of:
 - No flows ~ below blockage
 - Flowing ~ not yet standing
 5. Identify nature of possible blockages
 6. Where appropriate and safe to do so, other defects shall be rectified as appropriate. Defects that cannot be rectified shall be recorded.
 7. Record details, any action taken and any action required.
 8. All drain covers shall be reinstated after inspection. Damaged or missing ones must be reported and replaced. This may require urgent work and informing of IFC or Track Section Manager as appropriate.
 9. Complete and sign record and return to line manager

References

Supports Ellipse Standard job

- 009045 Drainage inspection

If applicable refer to the following directly associated documents:

- NR/SP/TRK/001 Inspection and Maintenance of Permanent Way
- NR/SP/TRK/9006 Design, Installation and Maintenance of Lineside Drainage
- NR/PRC/MTC/0135 Management of off track inspections
- NR/PRC/MTC/0136 Maintenance of off track assets
- NR/GN/TRK/7001/TWI2B002 How recognise wet bed formation
- NR/GN/TRK/7001/TWI2B011 How to recognise a drain failure
- NR/GN/TRK/7001/TWI2B013 How to inspect drainage

- Risk Control Sheets:
 - NR/L3/MTC/0002/TK0000 Generic Track Risks
 - NR/L3/MTC/0002/TK0305 Inspect Drainage