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Level 3

Railway Drainage Systems Manual Part 5: Drainage Management Plans

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1 Purpose

The purpose of this Part of the Manual is to provide direction and guidance on the preparation, issuing and updating of Drainage Management Plans (DMPs).

2 Scope

This Manual applies to Drainage Systems that are owned and/or managed by Network Rail and which are used for draining;

- the Track Support System,
- Earthworks and other off-track Catchments, and
- below the track level in Tunnels.

Other than at their interfaces this Manual does not apply to;

- Operational Property Drainage Systems, and
- Drainage Systems for structures, such as Bridges, Tunnels and Retaining Walls, that are managed as part of the structure.

This Manual can also apply to Drainage Systems abutting, feeding or receiving flow to or from railway Drainage Systems, and those that cross Network Rail infrastructure.

This Manual does not define commercial, health and safety, or operational safety responsibilities. Although safety requirements are not stated in this Manual, certification for competence is required prior to;

- entry into confined spaces - such as Manholes, Culverts and Interceptors, and,
- working at heights - such as above Tunnel portals.

3 Roles and responsibilities

Part 1 of this Manual defines the roles and responsibilities for drainage activities - the principal roles and responsibilities concerning DMPs are as follows.

1. Asset Management (B&C) is accountable for issuing DMPs. Specifically, for their respective areas, the Drainage Engineer is responsible for preparing, issuing and updating DMPs.
2. Asset Management (Track), Infrastructure Maintenance and Investment Projects shall provide information required for the preparation and updating of DMPs. The consultees for these functions are the Track Maintenance Engineer (TME), the Project Manager, and the Senior Renewals and Enhancement Engineers.

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4 Purpose and scope of a Drainage Management Plan

The purpose of a DMP is to outline the strategy for achieving prescribed levels of service for a Drainage System. A DMP is a long term, cross-functional plan whose aims are to (a) minimise the adverse impact of surface and ground water on the safe use and performance of infrastructure, (b) identify future investment requirements for drainage works, and (c) coordinate activities to achieve the efficient delivery of drainage works.

A DMP shall cover a complete Drainage System; that is, it shall include (where present) Track and Off-track Drainage Systems, Third Party Drainage Systems, and interfaces with other Drainage Systems. A DMP shall provide information about the current situation and proposed changes to the Catchment it covers.

For the particular Drainage System, a DMP should define;

- inspection frequencies,
- maintenance frequencies,
- renewal requirements,
- proposed enhancements.

A key requirement of a DMP is that it covers the effect of the performance of a Drainage Systems on the safe use and performance of railway infrastructure, particularly with regard to;

- track quality,
- the stability of earthworks, and
- infrastructure and equipment that are critical to the operation of a railway system - such as signalling and control centres, stations, depots, track junctions, and lineside equipment (see 6).

Each DMP shall be adopted by a TME. In general this will be the TME of the area in which the Outfall of the Drainage System is located.

A DMP shall state the roles and responsibilities for delivering the activities listed in this standard. Where the geographical extent of a DMP covers more than one TME area, the roles, responsibilities and the boundaries for each area shall be stated in the DMP.

5 Content of a Drainage Management Plan

The information that could be provided in a DMP, and the potential sources of that information are described below. The type and detail of the information required will vary according to need; but in some cases not all the information will be available.