



Network Rail identified the requirement for a major upgrade of the railway between Hastings and Ashford. A 9-week blockade centred on essential maintenance works in the Ore Tunnel, the refurbishment to include water-proofing, strengthening and track alignment, complete with 864m of track drainage

### Project Summary

400mm TerraDrain was installed as the main cess collector drain and 400mm TerraLine carrier cross drain, was used to move the collected water from the tunnel walls and ballast and transfer it to the designated outfall in a safe way so as not to compromise the track support area.

The installation called for heavy-duty pipes because of the lack of cover below sleeper and the increased live loads due to the location of the temporary line, which, in places, was less than 50mm away from the drain. From order to completion was 3 weeks.towards Southampton from the platform turning to cross the track (right) under the S&C into the siding 10ft running to the out fall.

### Project Overview

- NAME: Ore Tunnel Project, Nr Hastings (water-proofing & refurbishment)
- CLIENT: Network Rail (South Eastern)
- MAIN CONTRACTOR: Balfour Beatty Rail Ltd
- SUB CONTRACTOR: Total Solutions Southern Ltd
- CONSULTANT: Donaldson Associates

### Products used

- **TerraDrain II**  
400mm & 280mm x 3m  
FPO HP PAT D
- **TerraLine II**  
400mm & 280mm x 3m
- **PE Coupler**  
400mm
- **Flexi standard couplers**  
400mm

