



Project Title:	Llanbradach Railway Station
Client:	Network Rail – Western region
Date of Work:	September 2008

Project description

During a period of sustained heavy rain, and resulting blockage to undertrack drainage the track at Llanbradach station (10 miles north of Cardiff) caused the track to flood to a depth of 500/600mm. Without the ability to dispose of the flood water the flooding continued up track and eventually lead to an embankment slip.

Hammond were called in to clear the resultant debris which had travelled several hundred yards into a residential area. We undertook extensive works in replacing the undertrack drainage as an emergency, installing twin 450mm diameter steel under track drainage. In conjunction with the drainage works the embankment slip was addressed by constructing a sheet pile wall and supporting with a designed gabion basket wall.

Further work was undertaken to alleviate the problem by the installation of a new 600mm diameter lineside drainage system (over 500m in length and discharging into an alternative under track culvert system).

Project Constraints

- Track closure
- Public Interface disruption
- Severe weather conditions
- Near a residential area
- Delivery and plant logistics