

Project Data Sheet

PROJECT

Canvey Island Breach Analysis

CLIENT

Private Clients

- Sewerage
- Rivers
- Coastal
- SUDS
- Land Drainage
- Hydraulic Modelling
- Flood Risk Assessments
- Drainage Area Planning
- Asset Management
- Flood Alleviation
- Flooding Investigations
- Feasibility Study
- Drainage Design
- Environmental Aspects
- Inundation Modelling
- Surface Water Management



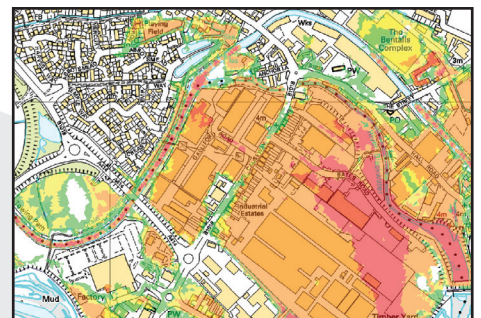
Canvey Island on the northern side of the Thames Estuary is very low lying with an average ground level of about +2 metres above Ordnance Survey Datum. The island is protected by hard and soft sea defences up to a level of about +5.8m O.D.

Richard Allitt Associates have undertaken numerous Flood Risk Assessments in accordance with PPG25/PPS25 for various clients on Canvey Island. As the island is surrounded by a mixture of hard (concrete) and soft (earth bank) flood defences the Flood Risk Assessments required a Breach Analysis to be undertaken for a 36 hour period assuming there was a 20m wide breach in the hard sea defences (or 50m wide in soft defences).

The breach analyses to date have been undertaken using the Infoworks RS program and more recently the InfoWorks RS 2D program. A key dataset for this type of work is an accurate Digital Terrain Model compiled from LiDAR survey data.



The results from the breach analyses have determined the maximum depth of flooding at any particular site and also the associated hazard rating. The flood depth is important in order to establish a safe minimum floor level and the hazard rating is important when considering access and egress.



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