Cardiff Docks Looking North;
13/05/1947

Norwegian Church
Lloyd George Avenue
County Hall
Wales Millennium Centre
BBC Studios
Current Port

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Cardiff Bay, 1980s
Cardiff Bay Barrage Act, 1993


• Impoundment initiated on 4th November 1999, creating 200ha of fresh water.

• Set out the Groundwater Provisions Code of Practice in Schedule 7 of the Act. Includes;
  2. Protected Property Area in South Cardiff for 20 years post impoundment.
Cardiff Superficial Geology

Additional recharge to sands & gravels in North Cardiff area

Unconfined Gravels

Confined Gravels extending under Tidal Flat Deposits / Estuarine Alluvium
Recent work indicates this may have changed. Groundwater flow in south Grangetown may now be parallel to the Taff/Bay.

**Conceptual Cross Section (SW-NE)**
Groundwater Monitoring Network

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Made Ground Response to Rainfall, 2016
Unconfined Gravels Response to Rainfall, 2015
Groundwater Control Locations

Contains Ordnance Survey data © Crown Copyright and database rights 2015.
Influence of Groundwater Control in Central Grangetown, 2006

North; St. Fagan’s Street / Grange Gardens

South; The Marl/Taff Embankment