



HR Wallingford
Working with water

SAM: System based Analysis and Management of Urban Flood Risks

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Urban Flooding

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ice

Pepys, 7 December 1663

“there was last night the greatest tide that ever was remembered”



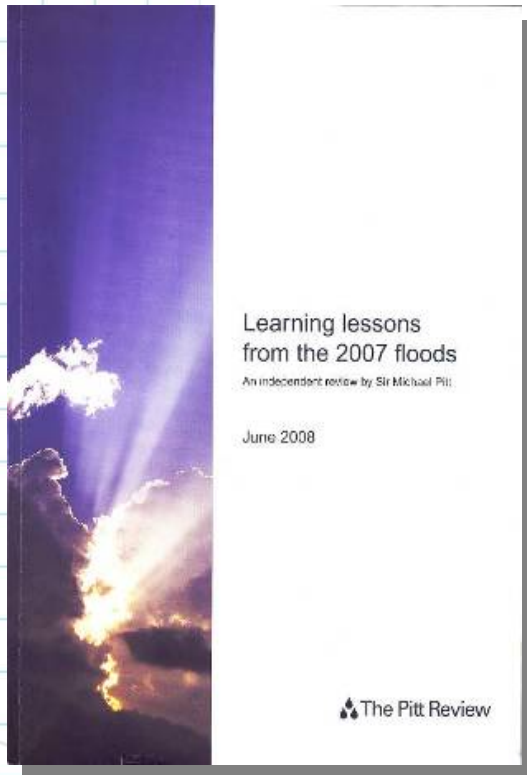
2007 Floods

Electricity sub-station near Tewkesbury



The Pitt Report, June 2008

- 92 Recommendations
- Legislation



Flood and Water Management Bill, April 2009

- **Bill clauses and questions for consultation**
- **Organisational change of responsibilities**
- **Reservoirs**

- **Ageing infrastructure**
- **Increased public expectation**
- **Climate Change + UK CIP + uncertainty**
- **Organisations**
- **Carbon accounting**
- **Urban drainage complexity**
- **Ecosystems**

- **Forecasting**
- **Data Capture**
- **Modelling (reality e.g. spatially varied rainfall)**
- **Processing Time**

- **Risk based: so deals with outcomes**
- **Engineering Judgement**
- **Range of design standards**

- **Need to spend on solutions**

Concluding remarks

