Figure 2.1
Location Map

Legend
- Main river
- Grand Union Canal
- Other river
- Northamptonshire

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Figure 2.5
Simplified bedrock geology showing known occurrences of springs and recorded groundwater flood incidents.
Figure 2.8
Observation boreholes locations

Legend
- Northamptonshire
- River
- Bedrock geology (625k)
  - Kellaways Formation and Oxford Clay
  - Great Oolite Group
  - Inferior Oolite Group
  - Lias Group
- Bedrock boreholes
  - Bedrock (Blisworth or Cornbrash Limestone)
  - Northampton Sands
  - Lincolnshire Limestone
  - Sand and gravels

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Figure 2.9
Groundwater levels timeseries - Northampton Sand, Combrash/Blisworth Limestone, Sand and Gravel
Figure 2.10
Groundwater levels timeseries - Lincolnshire Limestone; < 30 mAOD
Figure 2.11
Groundwater levels timeseries - Lincolnshire Limestone; > 30 mAOD
Figure 2.12
Rain and flow gauges location map
Figure 2.13
Rainfall

Example:
Figure 2.14
Permanent flow and level gauges timeseries: Slade Brook and River Nene

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Figure 2.16
Orlingbury rainfall patterns for 7 timescales

- **Daily**
- **3 days**
- **5 days**
- **10 days**
- **30 days**
- **60 days**
- **90 days**

Each graph represents the total rainfall (mm) from January 1st to January 14th, broken down into different time intervals: Daily, 3 days, 5 days, 10 days, 30 days, 60 days, and 90 days. The rainfall is shown with different symbols indicating antecedent X-days rainfall, spring flood incident, and other GW flood incident.
Litchborough rainfall patterns for 7 timescales

Figure 2.17

Daily

3 days

5 days

10 days

30 days

60 days

90 days

- Antecedent X-days rainfall
- Spring flood incident
- Other GW flood event
Figure 3.1
Groundwater flood risk at case studies locations

Legend
- flood events
  - Other groundwater flood event
  - Spring flood event
- Groundwater flood risk
  - Negligible
  - Very Low
  - Low
  - Moderate
  - High
  - Very High

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Figure 3.3
Groundwater Flood Risk origin

Legend
- Northamptonshire
- Flood events reported by NCC
  - Of spring flow origin
  - Of non-specified groundwater origin
  - Other
- Risk of Flooding From Rivers and Sea (EA dataset)

Source of Groundwater Flood Risk
- Negligible GWFR
- PSD
- Spring flow
- Bedrock aquifer
- PSD and spring flow
- Spring flow and bedrock aquifer
Figure 5.1
Groundwater levels at Pickworth Plain and groundwater flood incidence from 2007
Figure 5.2
Slade Brook catchment
Figure 5.3
Total flow and baseflow in Slade Brook
Figure 5.4
Extreme value distribution for four metrics (rainfall, baseflow, stage, groundwater levels)
Figure 6.2
Saint James Ward

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Finedon Ward

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Figure 6.5
Kingsley Ward

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Figure 6.6
Queen Eleanor and Buccleuch Ward

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Figure 6.7
Parklands Ward

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Figure 6.7
Parklands Ward

GWFR

Very Low
Low
Moderate
High
Very High

Road Points
Main roads
Railways
RoFRS

Flood risk from springlines
Flood risk from PSD
Flood risk from Bedrock

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Weldon and Gretton Ward

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Irhlingborough Waterloo Ward

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Figure 6.10
Nene Valley Ward

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Figure 6.11
Blisworth and Roade Ward

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Figure 6.12
Deanshanger Ward

GWFR

Very Low
Low
Moderate
High
Very High

Ward

Road Points
Main roads
Railways
RoFRS

Flood risk from springlines
Flood risk from PSD
Flood risk from Bedrock

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Figure 6.13
Bradley and Yardley Ward