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Long Term Water Resource Planning: the Regulators Perspective

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Head of Water Resource Management



Standpipes threat after driest winter since 1976

**Driest start
to year since
1973 sparks
drought**

BRITAIN RUNS OUT OF WATER

Worst drought
for a century

Sub-Saharan Africa? No, this is Kent

Two dry winters in a row
leave supplies in crisis.
Millions could face tough
restrictions this summer



Challenges for Today or Tomorrow?

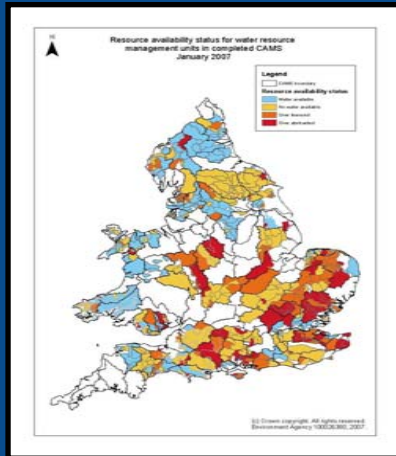
- ◆ **Planning and the Challenge of Uncertainty**
- ◆ **Groundwater: The Appliance of Science**
- ◆ **Groundwater: Climate Change Resilience**
- ◆ **Groundwater: The Conservation Question**
- ◆ **Groundwater: The Carbon Dimension**

Long Term Water Resource Planning: the Regulators Perspective

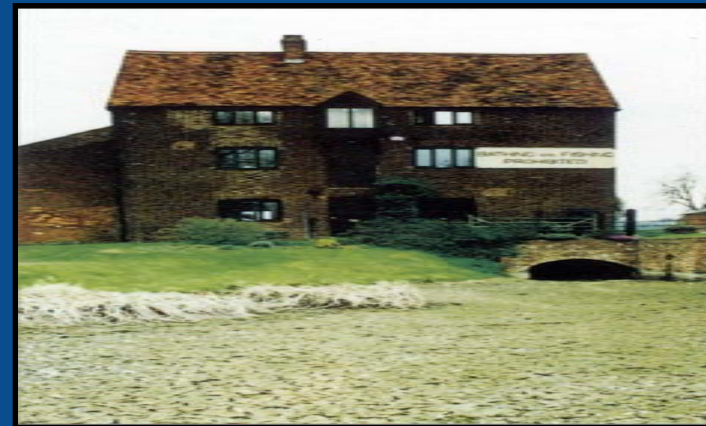
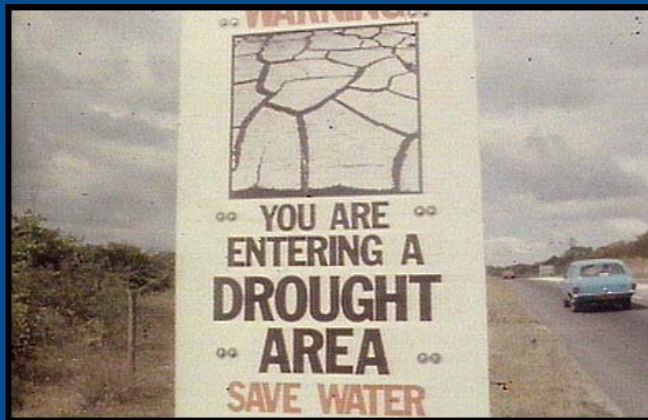
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Planning and the Challenge of Uncertainty



Why and what do we Plan



Long Term Water Resource
Planning: the Regulators Perspective

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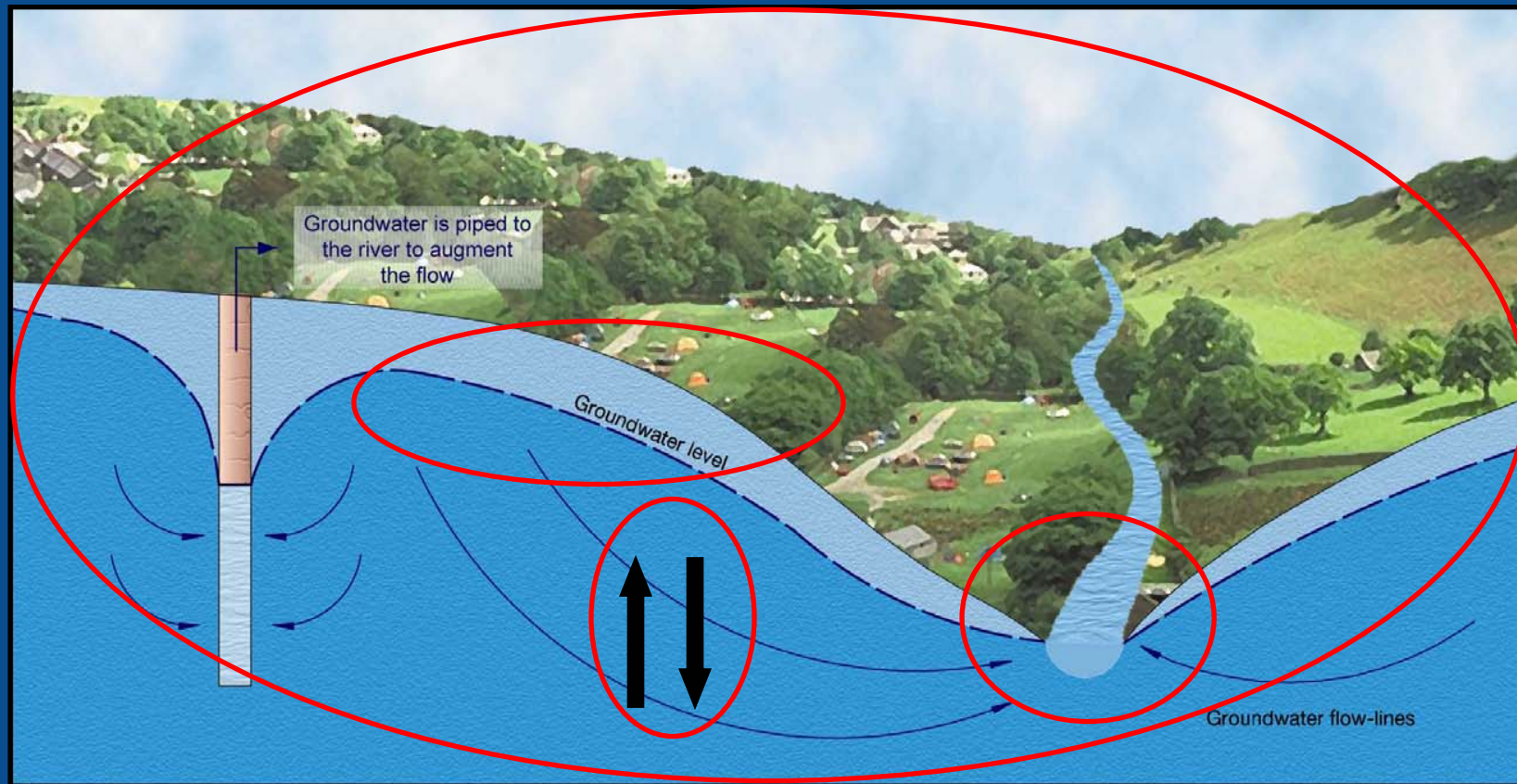


Planning and the Challenge of Uncertainty

Water Demands, Energy and
Climate Change

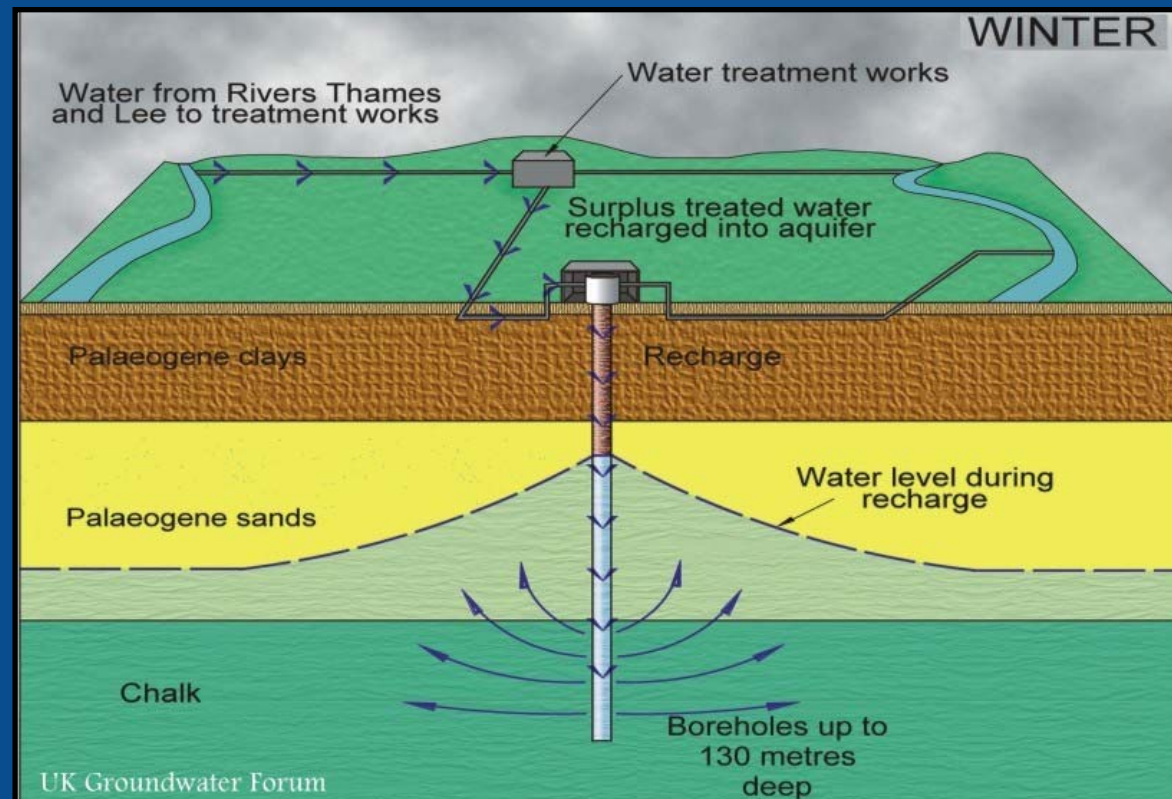


Groundwater: The Appliance of Science



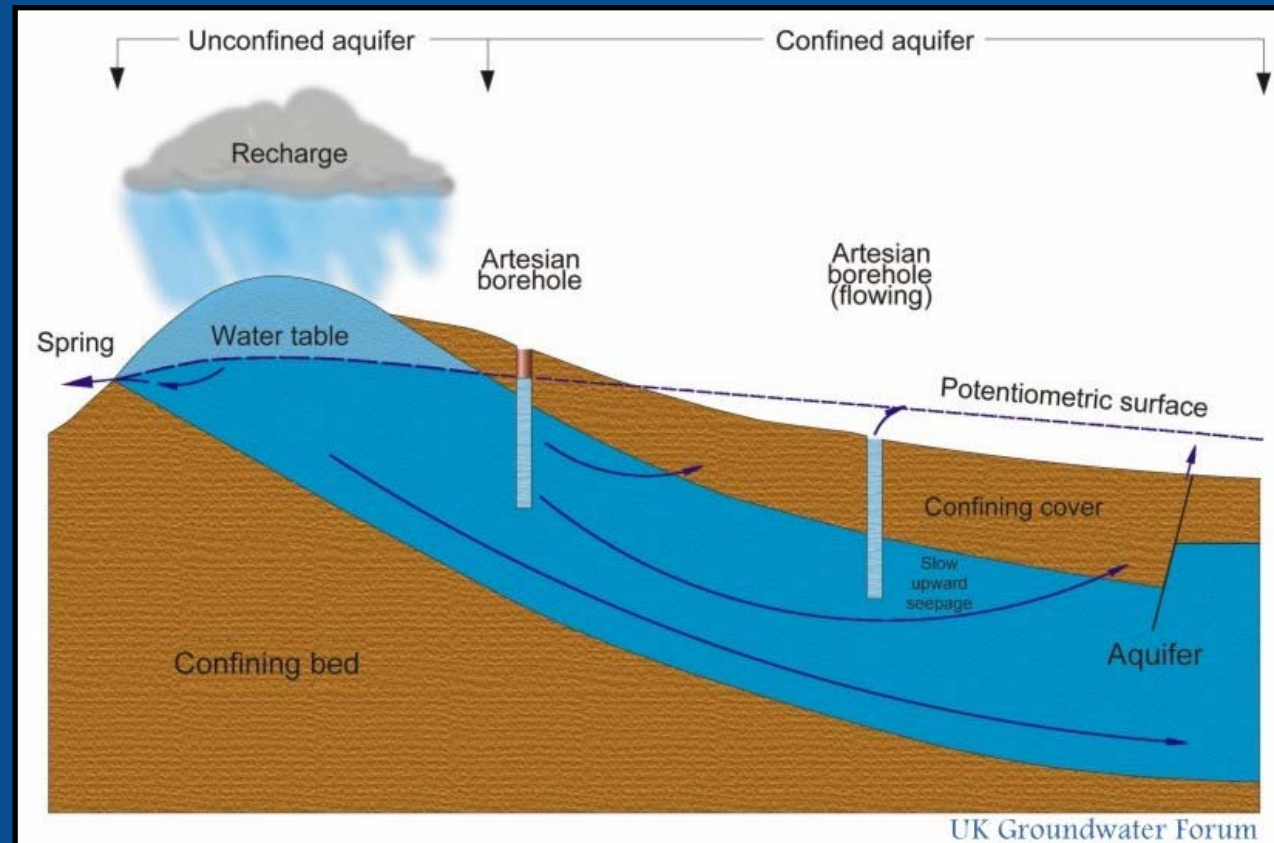
Groundwater: Climate Change Resilience

Aquifer Storage and Recovery



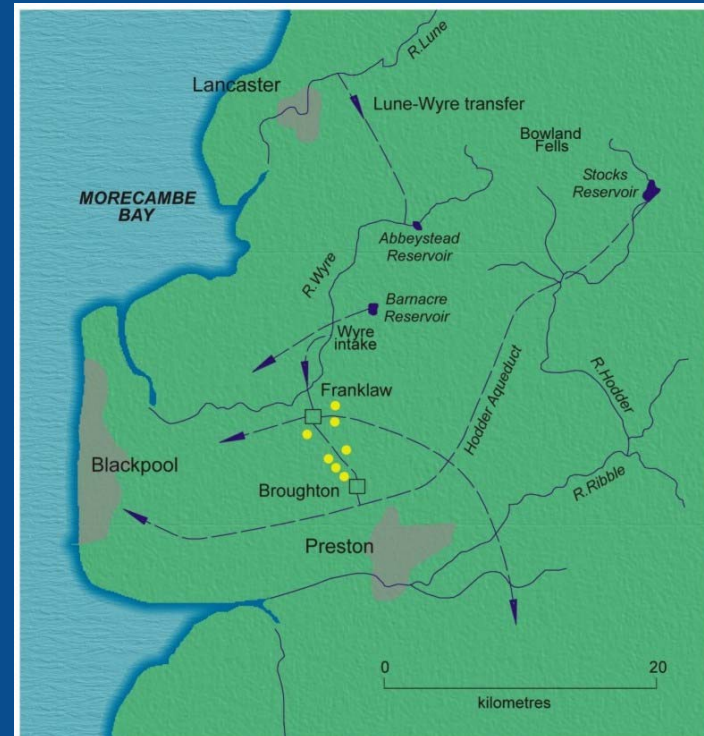
Groundwater: Climate Change Resilience

Deep Confined Groundwater



Groundwater: Climate Change Resilience

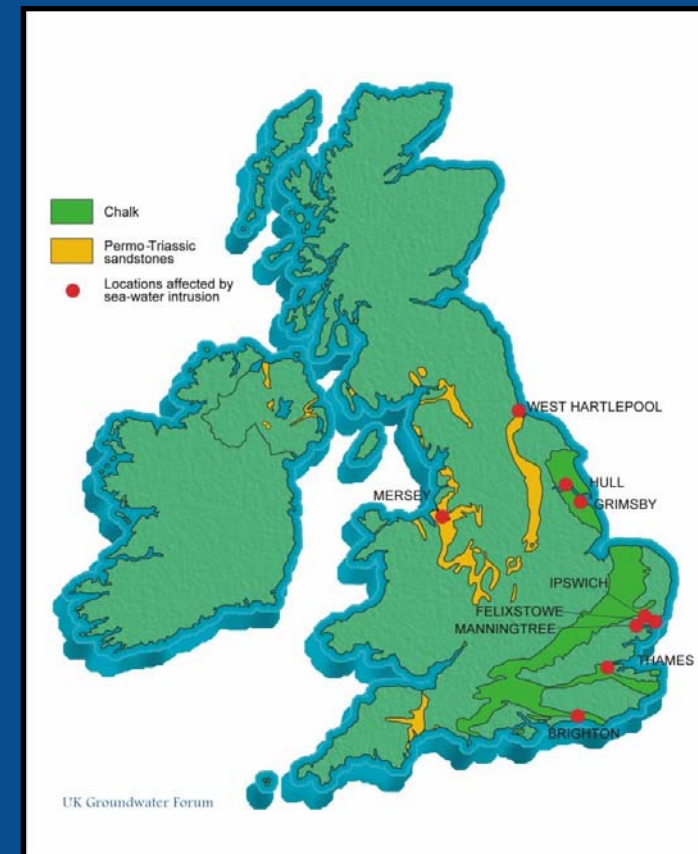
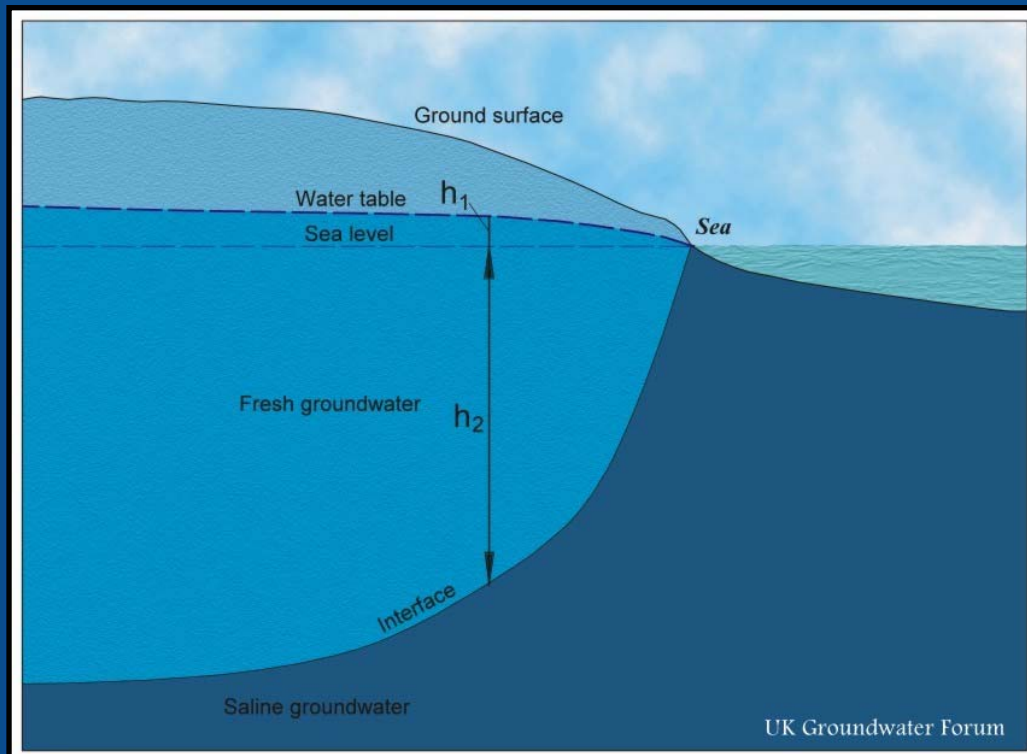
Conjunctive Use: Maximising
the Resilience of both
Surface and Groundwater



- Aqueducts
- Treatment works
- River intakes
- Groups of water supply boreholes

Groundwater: Climate Change Resilience

Saline Intrusion and other contamination

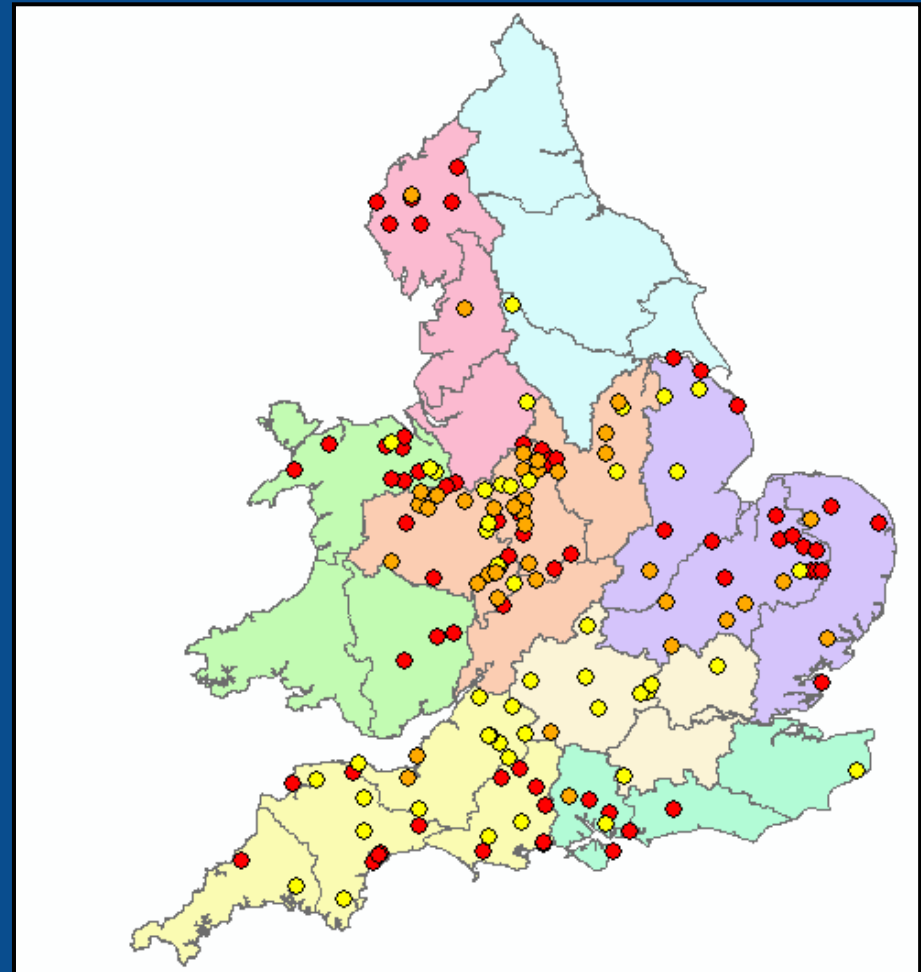


Groundwater: The Conservation Question

Habitat Directive

Water Framework Directive

Other protected sites



Groundwater: The Conservation Question

Now?



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Groundwater: The Conservation Question



Groundwater: The Conservation Question

Future?



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Groundwater: The Carbon Dimension



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