

Grafham to Cambridge Pipeline

Lolworth Parish Council meeting
Thursday 11 December 8:00pm

Introductions



Our unique region

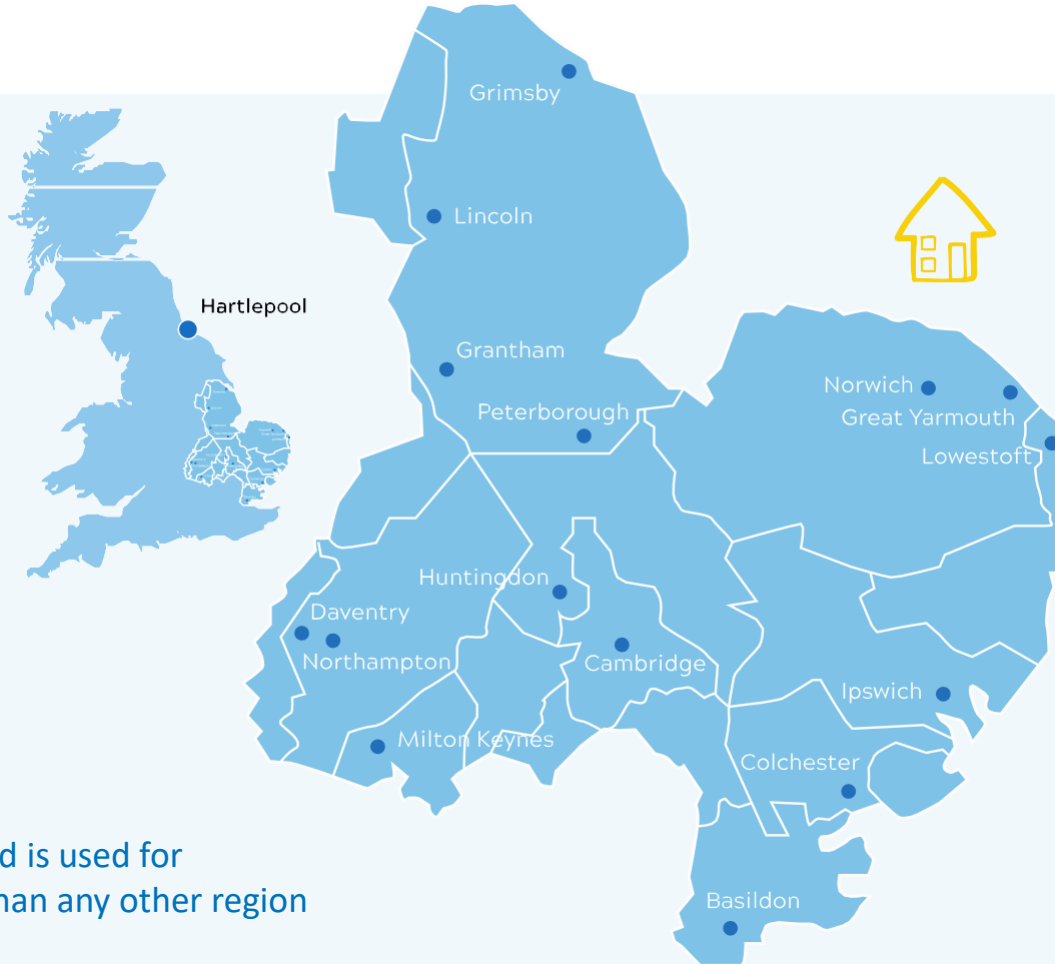


14 diverse counties in our region, all with differing environmental, social and economic needs

Lowest rainfall at 2.14mm per day, versus the national average of 2.85mm



75% of land in the East of England is used for agriculture, higher than any other region



Home to 15% of England's population and four of the fast-growing cities Cambridge, Peterborough, Milton Keynes and Northampton mean that by 2043, 700,000 more people will live here



28% of land is below sea level, putting us at risk of flooding whilst hotter than average temperatures make us prone to drought

Businesses in the East are particularly water intensive, e.g. food processing



Scale of regional challenge

By 2050, water availability will be affected by:



Climate change and drought resilience – 80 MI/d

Loss of abstraction licences

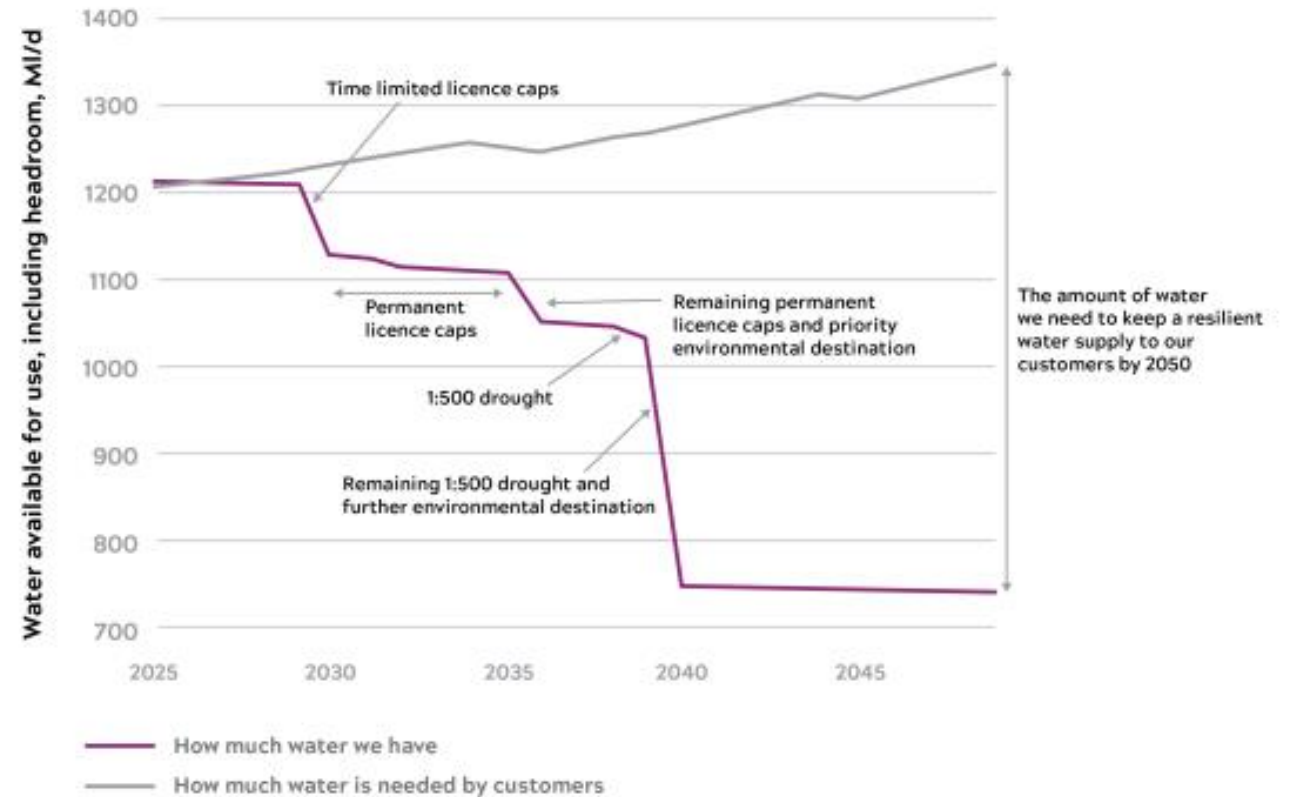


- 375 MI/d for Anglian Water
- 59 MI/d for Cambridge Water

Population growth

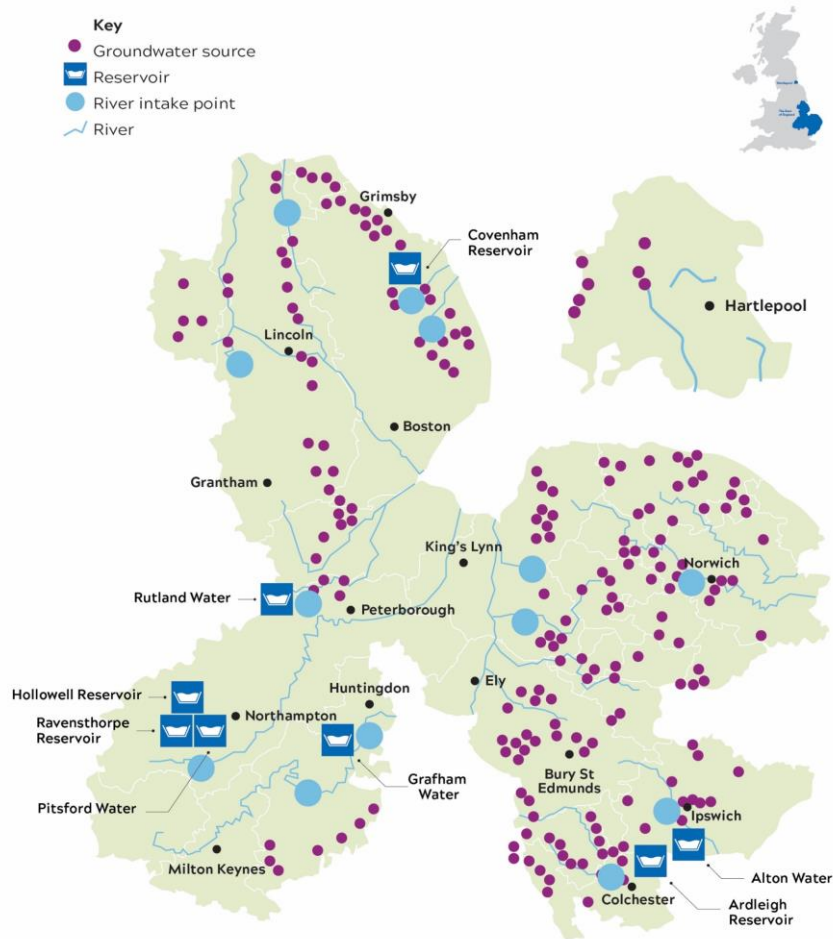


- 138 MI/d for Anglian Water
- 17.5 MI/d for Cambridge Water



We will lose **over 50%** of our current available water for supply!

Our water resources



We operate:

8 reservoirs

6 direct
river sources

Over 200
groundwater sources

supplying more than **1.1 billion litres** of water everyday via
nearly **40,000 kilometres** of pipes to over **5 million** people.



Cambridgeshire have a **mixture of surface and groundwater sources.**

We are working with the Environment Agency to
improve the health of chalk rivers in this area.



Three-tiered approach

Our WRMP24 takes a **three-tiered approach** to tackling long-term challenges:

1. Making best use of existing resources including demand management
2. Strategic water resource options incl. development of two new reservoirs
3. Adaptive future resources

WRMP24's three tier strategy to fulfil the region's new water needs

Demand management options

Reservoirs

Others

Water reuse

Desalination

Initial surplus

Existing resources

219 MI/d

213 MI/d

161 MI/d

The reduction in water available to us

134 MI/d

241 MI/d

70 MI/d

10 MI/d

138 MI/d

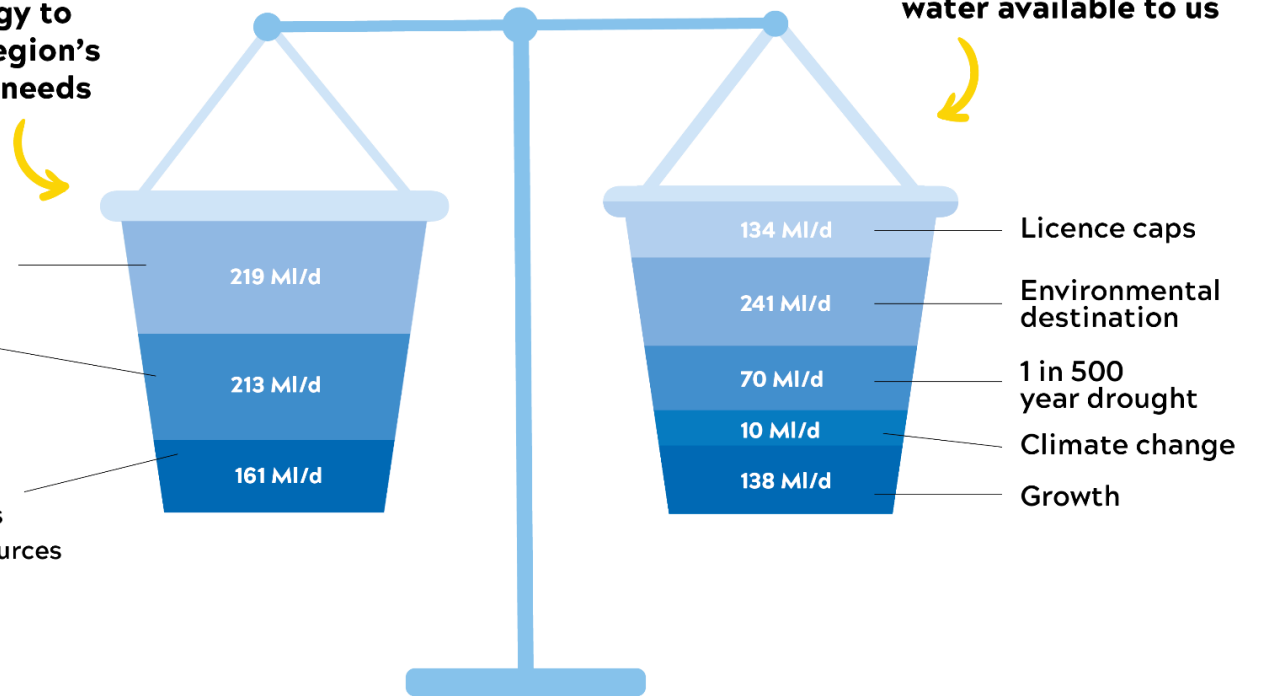
Licence caps

Environmental destination

1 in 500 year drought

Climate change

Growth

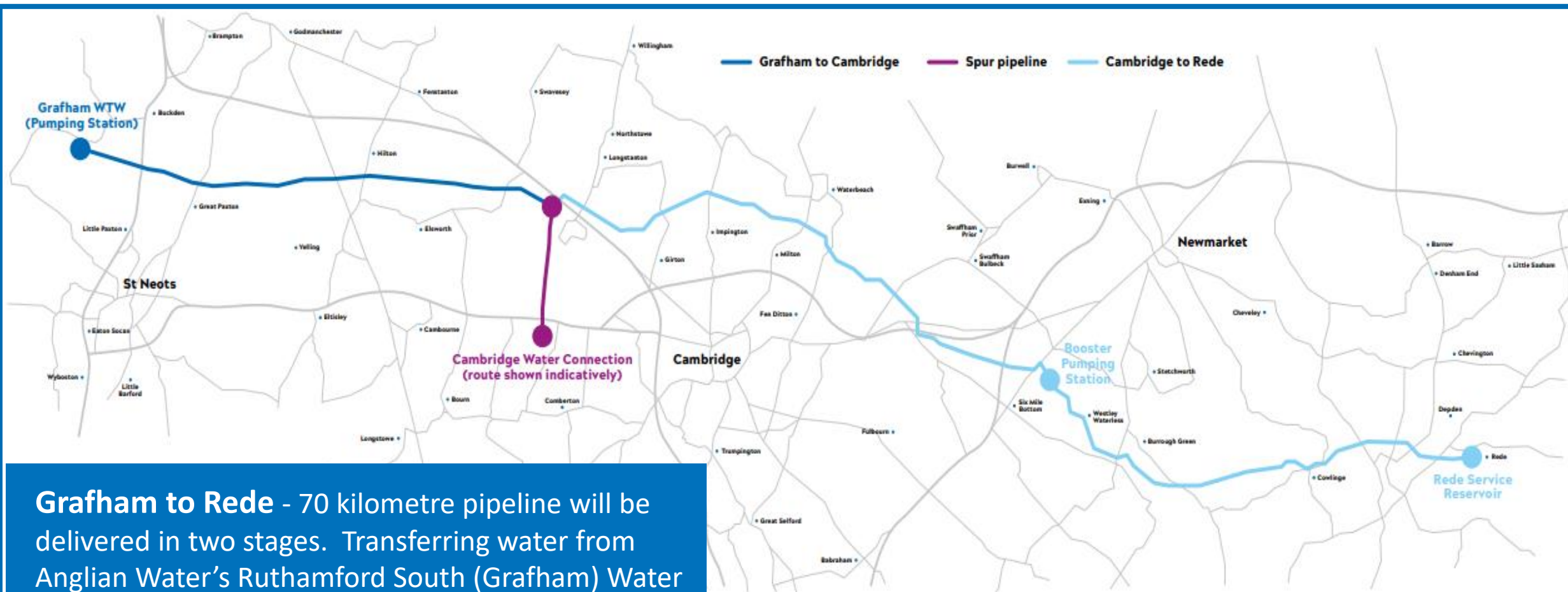




Grafham to Cambridge

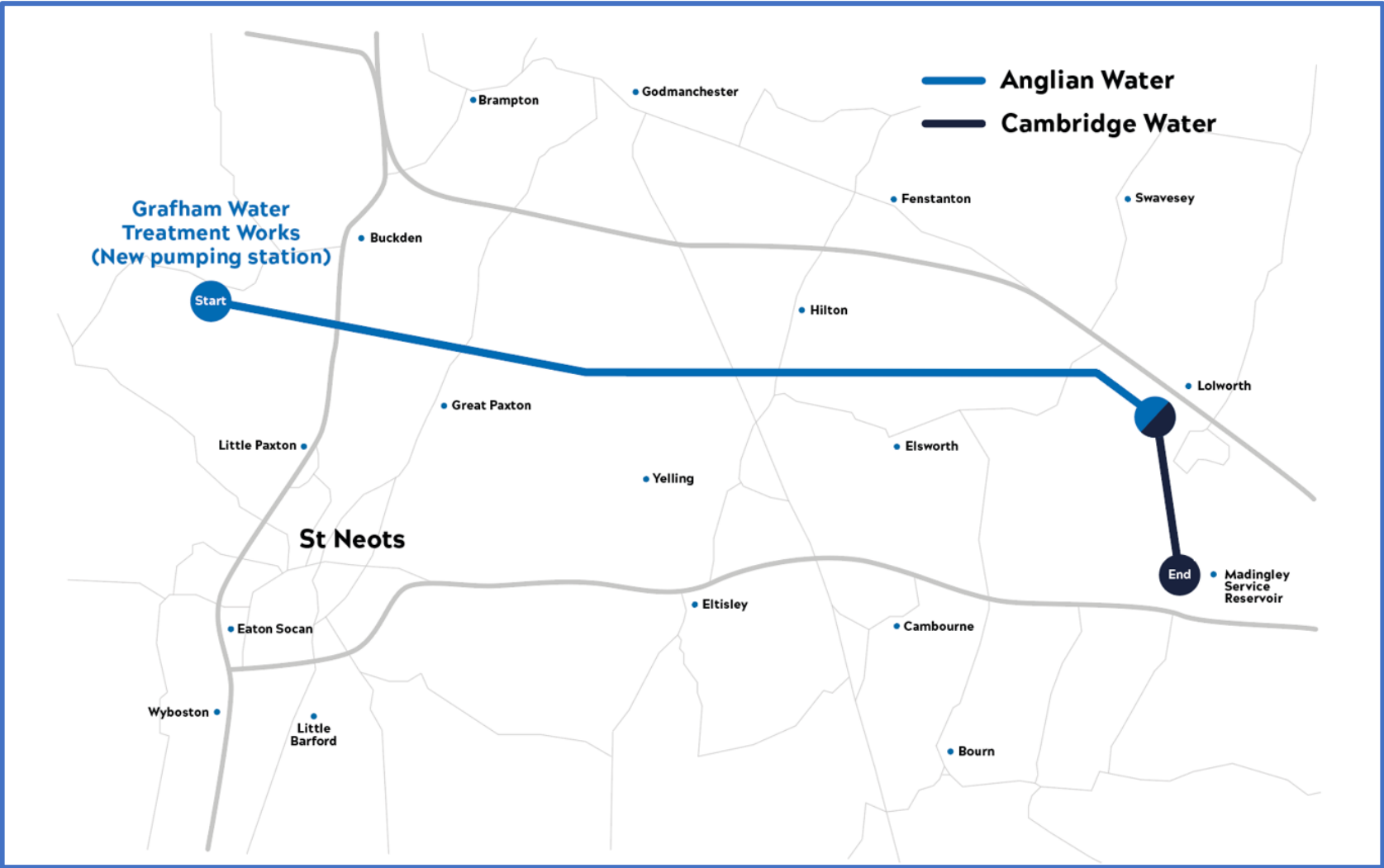


Grafham to Rede



Grafham to Rede - 70 kilometre pipeline will be delivered in two stages. Transferring water from Anglian Water's Ruthamford South (Grafham) Water Resource Zone (WRZ) to Cambridge Water and on to the Suffolk (Rede) WRZ.

Grafham to Cambridge



Lolworth



Grafham to Cambridge

- The pipeline will start at the existing **Grafham Water** Treatment Works
- Approximately 21 kilometres in length **carrying up to 50MLD**
- Connection with the **7 kilometre Madingley Spur**
- Pipeline **working area will generally be 40 metres wide** with requirement for laydowns and compounds along the route
- The majority of the route will be constructed using an **open-cut trench** technique but major road, rail and river crossings will be trenchless



What we've done so far

- **Scoping Opinion submitted** to Huntingdon District Council and South Cambridgeshire District Council
- Parish Council and **Community engagement** started
- **Ecology surveys** underway
- **Geophysical surveys** are complete for the whole Grafham to Cambridge scheme
- **Ground investigation boreholes** to be completed by end of summer 26
- **Archaeological trial trenching** now started





Preliminary Construction Schedule

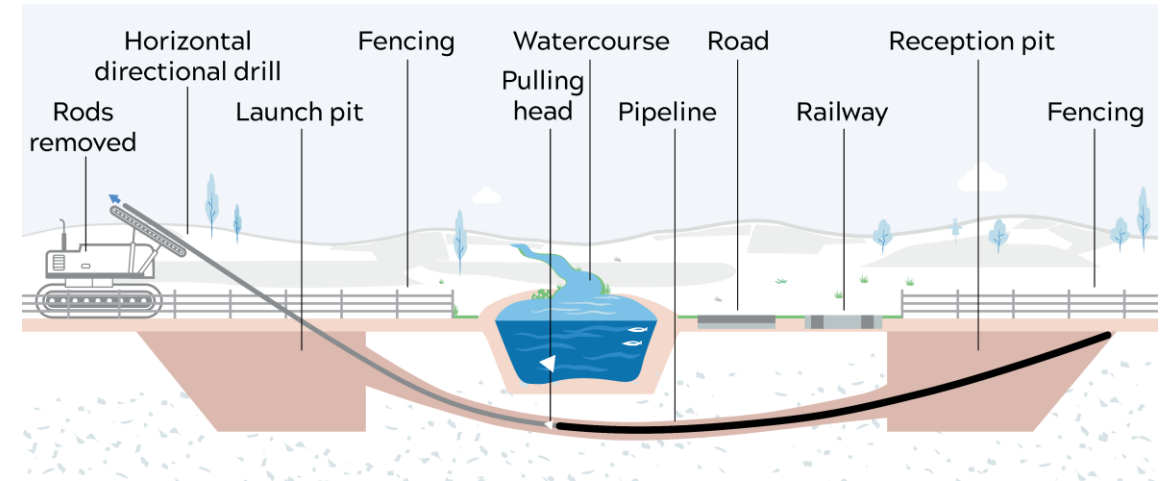
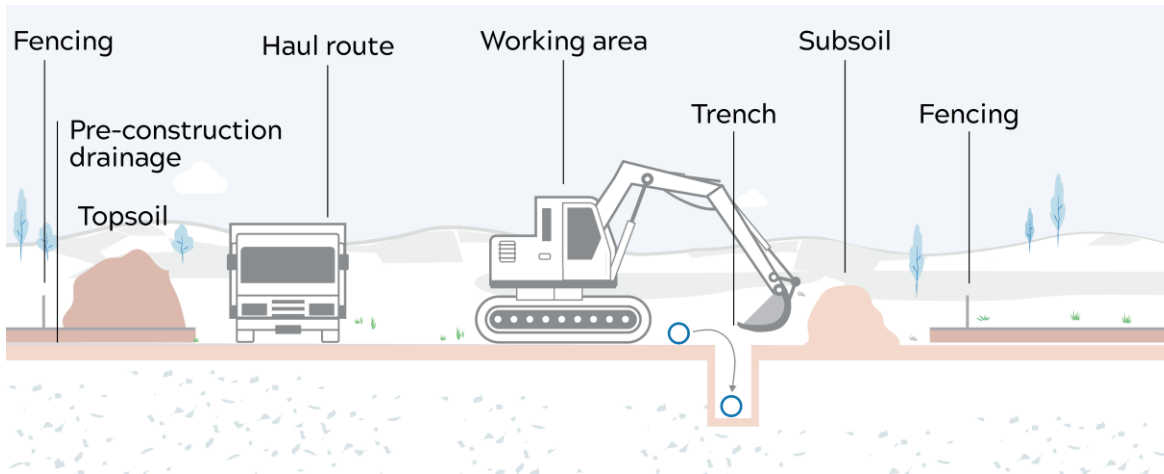


What disruptions to expect during construction?

- Traffic management - road closures, two-way lights, T015 (temporary obstructions for up to 15 minutes)
- Increased visibility of workforce - people, vehicles
- Increased traffic - there will be agreed construction traffic management plans
- Temporary laydown areas and compounds - We'll also use temporary compounds and laydown areas to store our plant, equipment and materials closer to the work site, to help minimize the construction traffic on the public highway wherever possible.



Construction Techniques



The wider benefits

Circa **100 new jobs** across
Cambridgeshire

**Thriving
Communities Fund –
£5.8m** of shareholder
funds into projects
that improve the
water environment
and bring social
benefits to our
region

**£2m Green Skills
Academy – Wisbech**

**Collaborative Skills
Programme – Wisbech
Peterborough and West
Suffolk College**

Engagement in wider
community support
e.g. schools outreach
and career fairs



Any questions?

Email: strategicpipelines@anglianwater.co.uk