

# Malton, Norton and Old Malton

## Integrated Flood Scheme



## History of the work to date

Risk of flooding from the River Derwent and its tributaries and groundwater which rises in the vicinity of County Bridge - in 2000 169 flooded properties

In 2004 EA built flood defences which reduced the risk of the river bursting its banks, protecting approx 350 properties

Reduced the risk to the majority of properties but means that river locking occurs and drainage systems cannot outfall into the river, causing sewer flooding.

Perform well generally but did not address groundwater flooding and impeded groundwater access into the Derwent.

187 properties remain at “significant risk” of surface water/ground water flooding in the towns. In the past 10 years 30 of which have flooded, some repeatedly.

No one organisation responsible for the affected assets or with responsibility to “solve” the difficult and inter-related issues.

All organisations must therefore work together to arrive at deliverable solutions

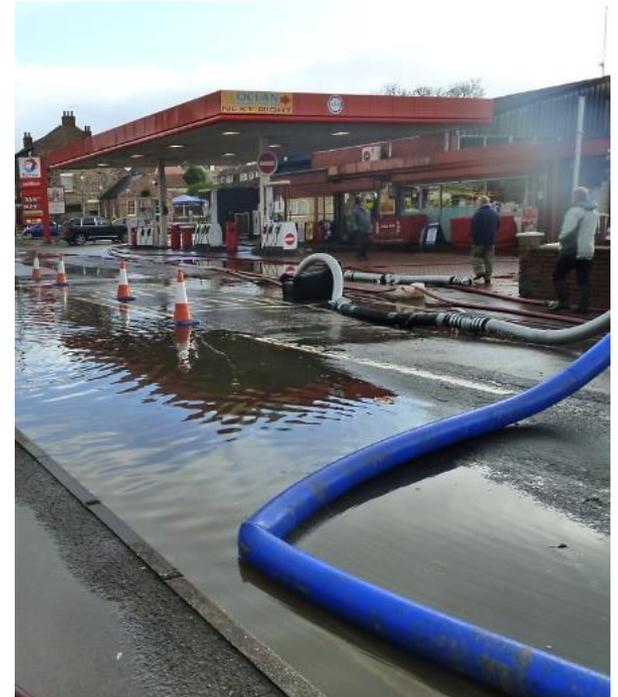
2014 NYCC commission the ARUP report. This was a high level options appraisal that identified potential action that could be taken to mitigate the scheme and outline costs of pursuing the scheme.



# Arup Options

Options considered vary between locations and include:

- Walking away (purely hypothetical)
- Property Level Protection
- Chambers for deployment of temporary pumps
- Permanent land drain pumps
- Control of surface water flow paths
- Improved flood risk telemetry and warning
- Network Rail under-pumping arrangement
- Upgrading sewer pumping station capacity



# Options explored and ruled out to date

- Permanently installed pumps
- Increased sewer pumping capacity
- Formalised protection of pumping station

## Work already delivered:

- Under track crossing
- Increased efficiency/optimisation/telemetry surrounding EA pumping
- Routine maintenance

## Current work

Emergency plans/ operational response – April events show that this does work. Require formalisation and refinement

Continue rationalisation of Options –What and where and how much?

Are options deliverable? – Drainage plan for Old Malton, additional groundwater study, Castlegate

Working with WSP to develop business case for economic growth benefits for LEP.

Rationalise costs/develop detailed scheme(s)

## Sourcing Funding

EA FDGIA

HE bid expression of interest

LEP potential

EU climate change calls

RDC/NYCC contributions

Local Contributions

Stakeholders/businesses

## What does the scheme currently look like?

- Improvement of warnings and emergency planning
- Property Level Resilience
- Bolstered, formalised pumping in partnership between YW, NYCC and RDC
- Castlegate/Old Malton solutions require additional study
- Additional options not identified by Arup Report – SuDS/ blue green regeneration
- Working towards upgrading/formalisation/maintenance of RDC pumping assets in partnership with NYCC

Thank you for listening. Any questions?