

# Woodborough Parish Council meeting

**Environment Agency Flood Risk Update**

16th November 2021

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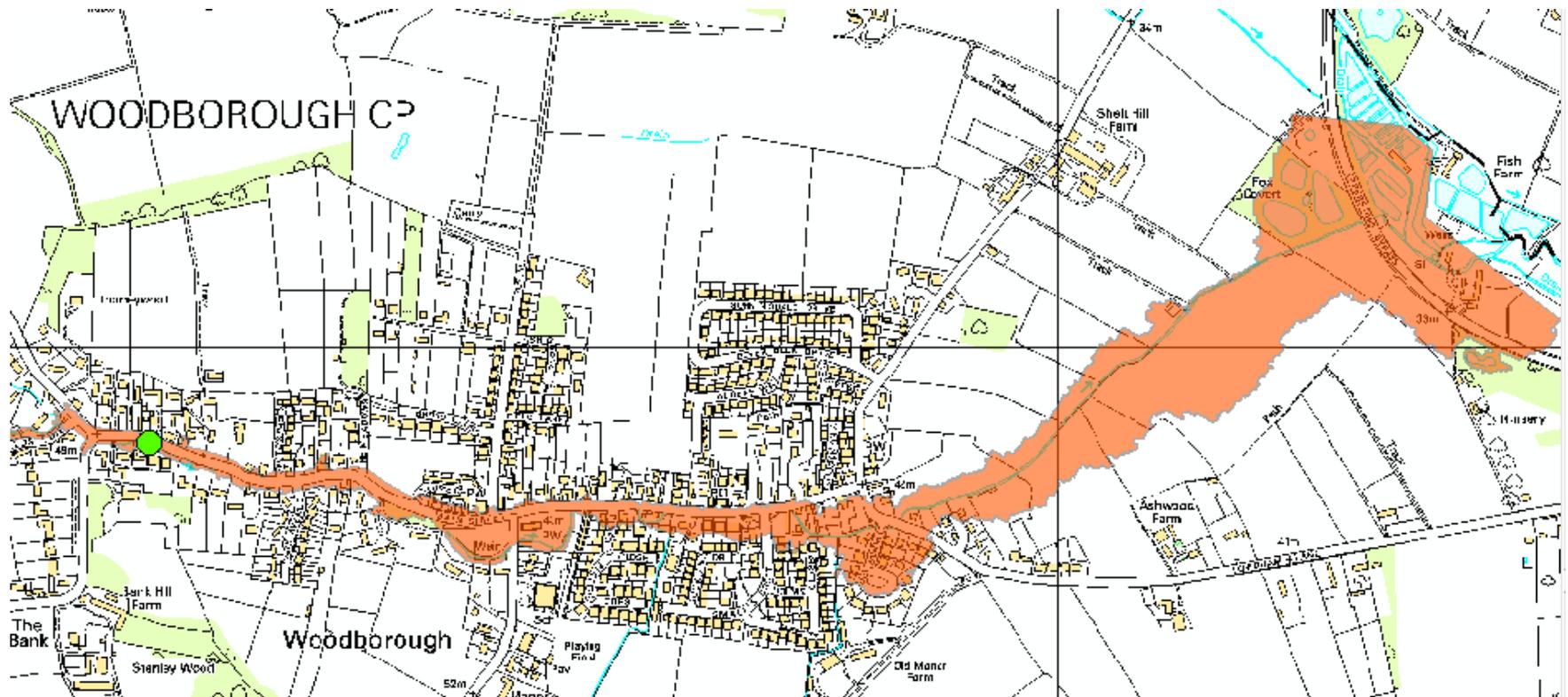
- Next steps from last meeting
- Work we are undertaking
  - Flood warning
  - Flood wardens
- Flood alleviation scheme update
  - NFM
- Next steps

# Next steps – from last meeting

1. Install new level gauge installed as part of the Flood Warning Expansion Project (by October 2021)
2. Provide a flood warning service live for the community between November 2021 & February 2022
3. Further investigation to ascertain the optimum economic and environmental solution for Woodborough
4. Explore natural flood management opportunities in the catchment
  - Identify potential catchment wide locations for NFM.
  - Assess whether the percentage reduction in flow achievable?
  - Once complete, share NFM opportunity mapping outputs with the PC and partners.

# 1. Work we are undertaking – flood warning

- New level gauge being installed as part of the Flood Warning Expansion Project – aiming to install by January 2022
- We aim to have a flood warning service live for the community by Summer 2022
- We will fully engage with the community about the details of this new warning service closer to the time of the new service being launched.



## Key

-  River Level Gauge
-  Flood Warning Area

## 2. Work we are undertaking – flood wardens

- A mop up session to capture Flood Wardens who missed spring's training package took place over the autumn.
- We are working with Communities Prepared to deliver training next year that will cover some more specific topics, such as insurance, hot topics, health and safety.
- Dates for next year's training TBC.

# 3. Flood alleviation capital scheme

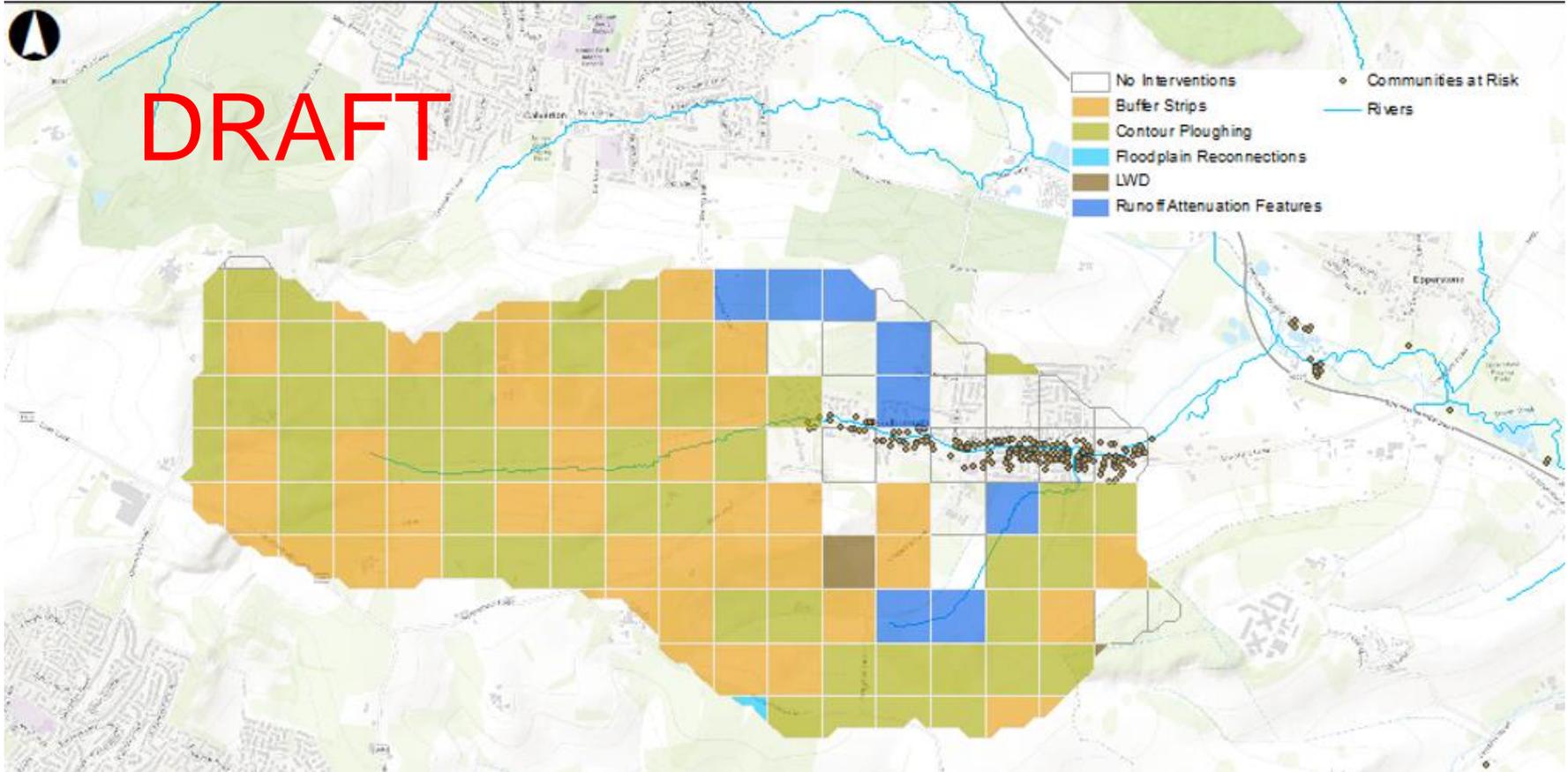
- Funding in 20/21 enabled the EA to undertake an Initial Assessment (IA) for Woodborough
- This re-evaluated the original Wetland Scheme and considered all potential alternative flood mitigation measures
  - 31 properties protected
  - £1.2mil max benefits within Woodborough
  - £251k max Grant in Aid funding available
  - Scheme cost > £1.2mil
  - Benefit to cost ratio <1
- A range of 24 potential interventions identified

# 4. Natural Flood Management (NFM)

- We commissioned a study to look at NFM opportunities across the Dover Beck with a focus on Woodborough
- The study focusses on:
  - Where NFM is appropriate
  - What type of interventions may be possible/preferred
  - How much storage could be provided



# NFM interventions



NFM measures that were identified through a desk based study

# Dover Beck: High level outputs

- By reviewing the potential storage features a range of scenarios were considered: **DRAFT**

Total Volume (m <sup>3</sup> )	Percentage reduction in peak flow (%) for return period of:				
	1 in 10 years	1 in 20 years	1 in 50 years	1 in 75 years	1 in 100 years
9,000m <sup>3</sup>	6.3%	7.6%	1.3%	0.0%	0.0%
16,000m <sup>3</sup>	18.8%	20.8%	0.4%	0.0%	0.0%
24,000m <sup>3</sup>	29.8%	32.5%	12.5%	4.7%	1.2%
34,500m <sup>3</sup>	45.6%	48.0%	18.5%	9.6%	6.5%

This table shows that storage-based NFM could have a positive impact in reducing peak flows, particularly during the more frequent flood events.

# 4. Natural Flood Management (NFM)

- Conclusions of the report:
  - There is strong potential for implementing NFM within the Woodborough Brook
  - The majority of features prioritised in this catchment are considered to be non-storage-based, predominantly buffer strips and contour ploughing
  - The report identified a need to consider downstream impacts of reducing flows on Woodborough Brook on the Dover Beck, due to the potential of flow synchronisation.

# Next steps

1. Install new level gauge installed as part of the Flood Warning Expansion Project (aim – January 2022)
2. Provide a flood warning service live for the community (aim – Summer 2022)
3. Further explore natural flood management opportunities in the catchment
  - Percentage reduction in river flow looks achievable
  - Potential for partnership working
    - Nottinghamshire County Council
    - Trent Rivers Trust
    - Woodborough Flood Action Group and the Parish Council
    - Local land owners

A large, light green circular graphic on the left side of the slide. Inside the circle, there are several white, stylized human figures holding hands in a circle, forming a ring. The figures are simple, with rounded heads and straight bodies.

**Any questions?**