Lincolnshire – June 2019 Rainfall – Timeline Briefing Steeping River Incident & Forward Look

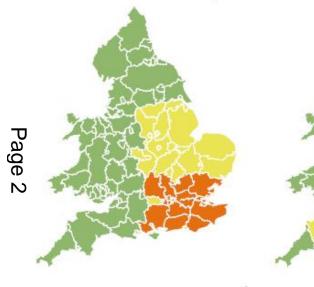
Morgan Wray

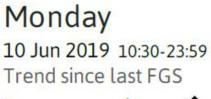


Flood Guidance Statement – Monday 10 June

Flood Guidance Statement

10:30hrs Monday 10 June 2019





Increased



Increased





Increased



Thursday
13 Jun 2019

Increased



Met Office

Friday
14 Jun 2019

FLOODFORECASTINGCENTRE

a working partnership between

Environment Agency

Steady





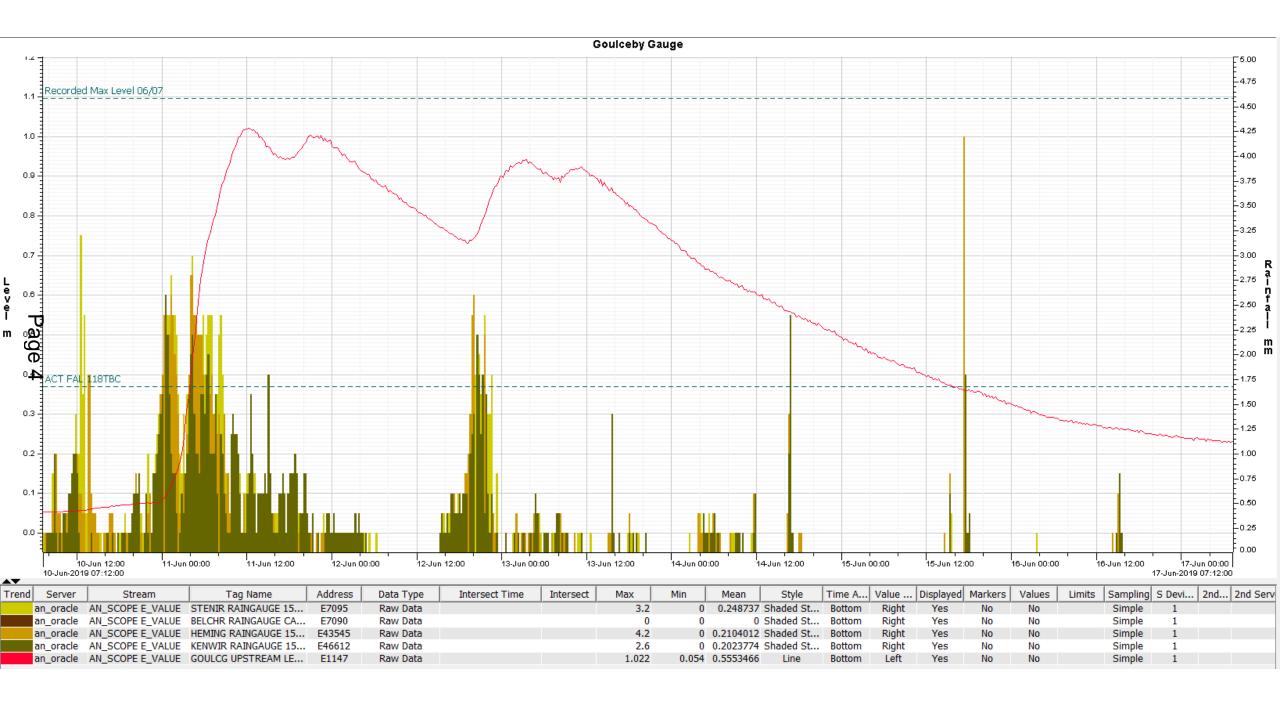
Precipitation Forecast – Monday 10 June

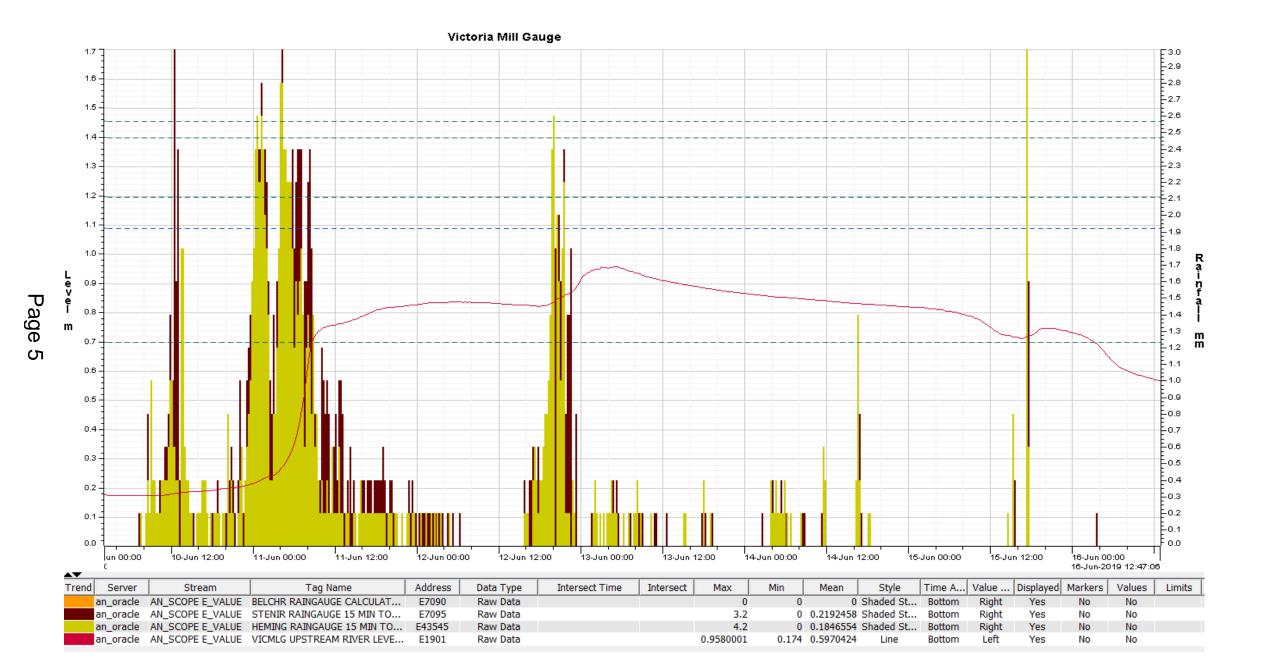
Precipitation Forecast Days 1 and 2

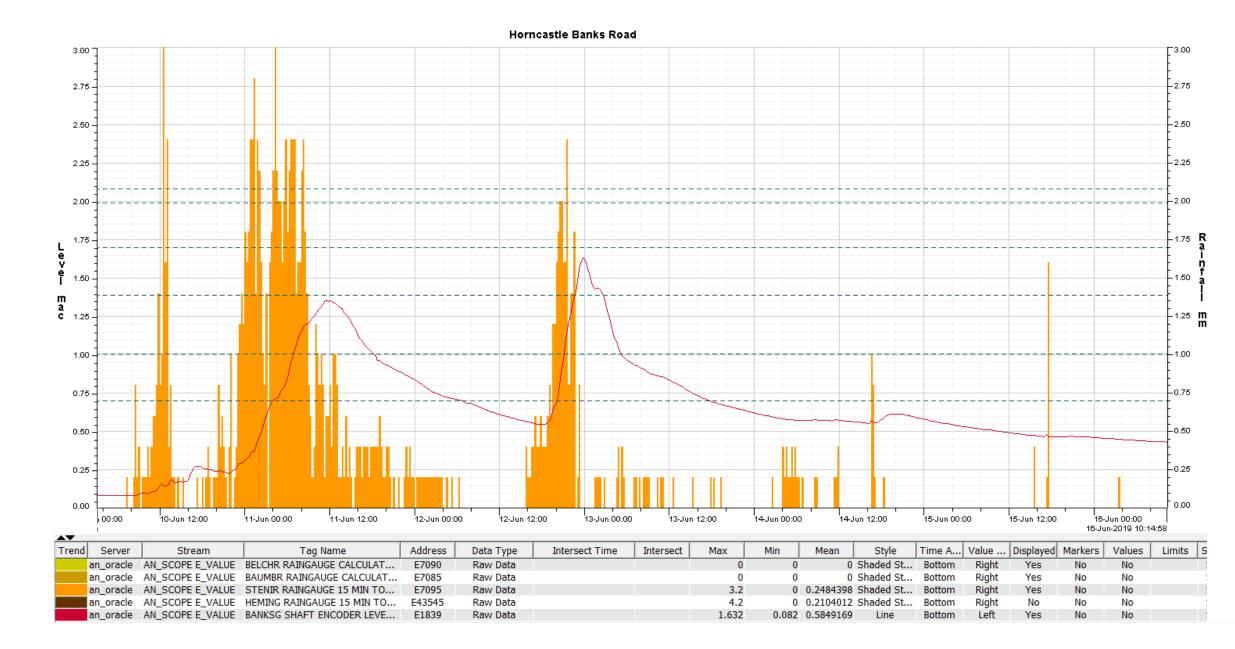
			Monday 10/06/19					Tuesday 11/06/19			
			00-06 (GMT)	06-12	12-18	18-24	Day 1 Total (06-24)	00-06	06-12	12-24	Day 2 Total (00-24)
	LINCS	Ave (mm)		7	6	9	22	9	7	19	35
		Max (mm)		13	10	18	36	19	15	29	47
1											

Daily Summary Days 1 – 5

		Monday 10/06/19	Tuesday 11/06/19	Wednesday 12/06/19	Thursday 13/06/19	Friday 14/06/19
Duasinitation	Ave(mm)	Ave(mm) See ta		8	2	1
Precipitation	Max(mm)	ab	ove	(17) 25	(7) 20	1







Steeping Catchment Information

- 134mm rain 10-12 June 2019 (more than forecast)
- Over twice the monthly average rainfall
- 68mm rain resulted in the 2007 incident
- There was 330% of the long term average rainfall over the Steeping system between 1st and 16th June, with 159 mm rain falling between the 10th and 16th



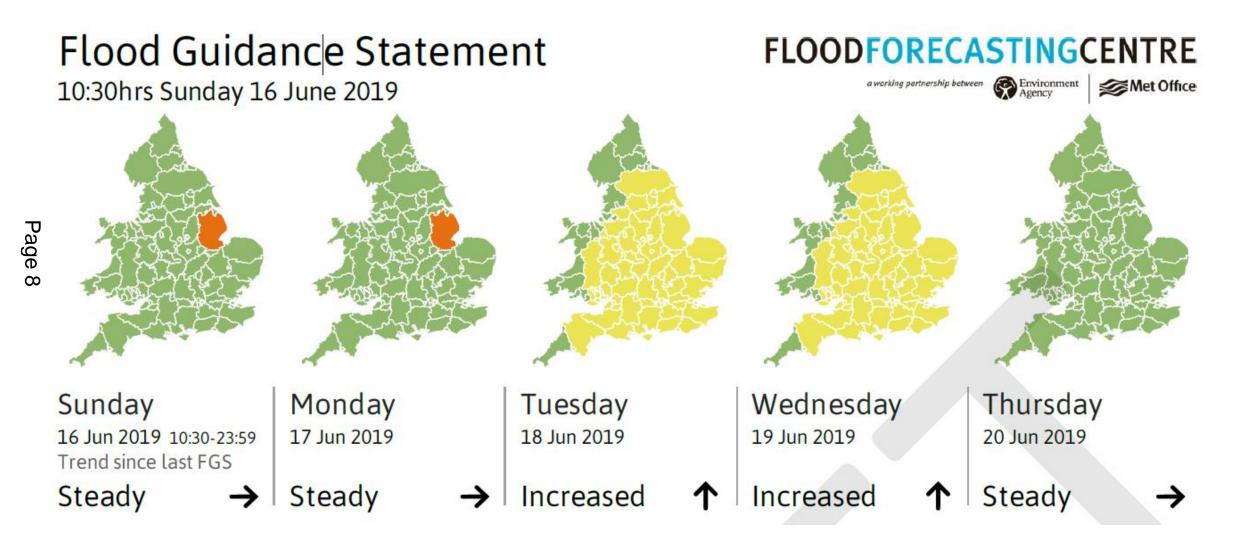
- 2 Ultra High Volume Pumps installed
- 1 pump at Wainfleet capacity 1.6 cumecs
- 1 pump at Lade Bank capacity 1.9 cumecs
- Multi partner pumping operation



- 150+ EA staff involved including Mutual Aid
- 1 Incident Support Vehicle on site throughout



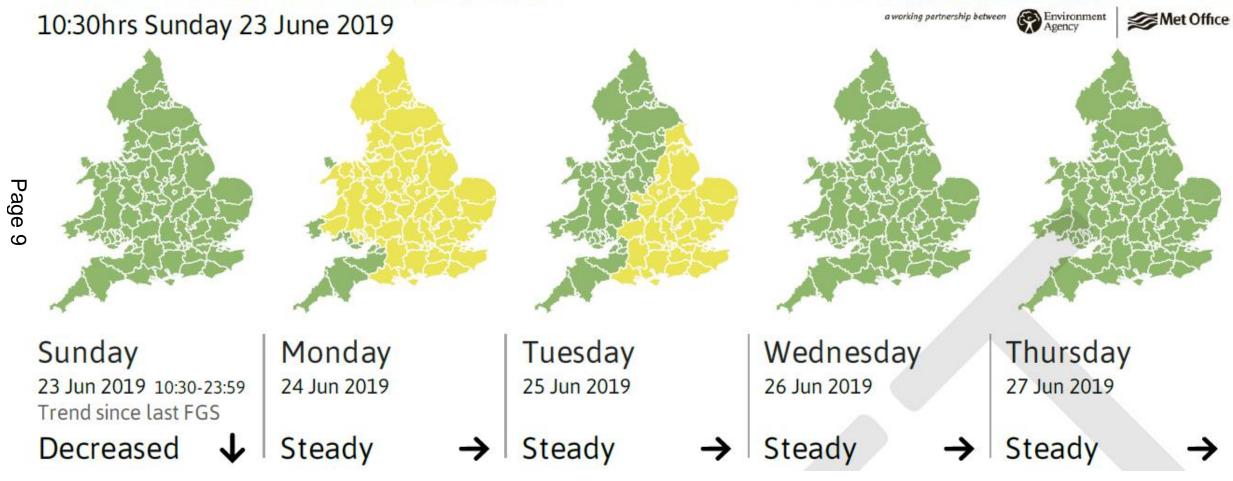
Flood Guidance Statement – Sunday 16 June





Flood Guidance Statement – Sunday 23 June

Flood Guidance Statement

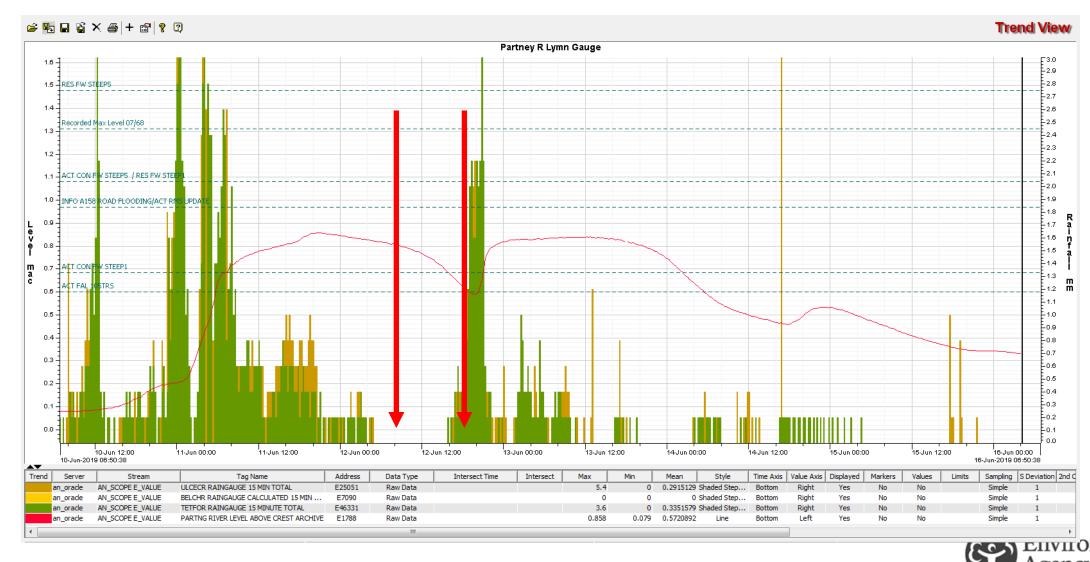




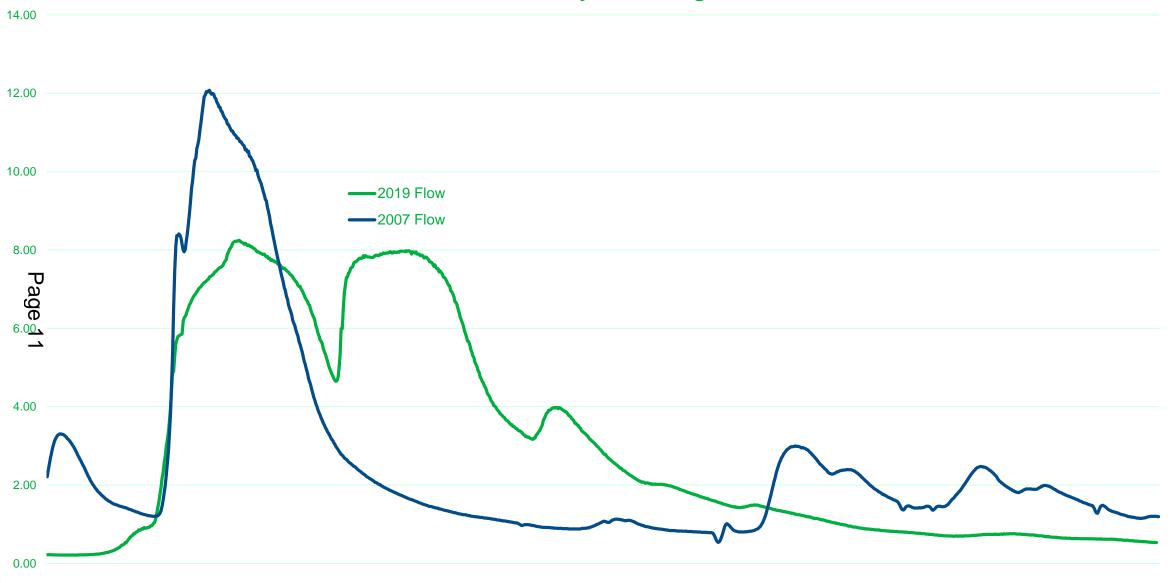
FLOODFORECASTINGCENTRE

Partney River Level Gauge – 10-16 June

last 6 days as of 05:00BST



Partney Flow Gauge

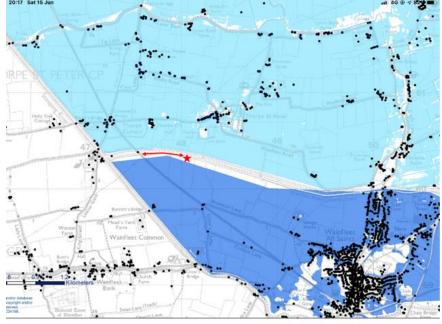




Images of Breach











Work starting 08:45 25-06-2019





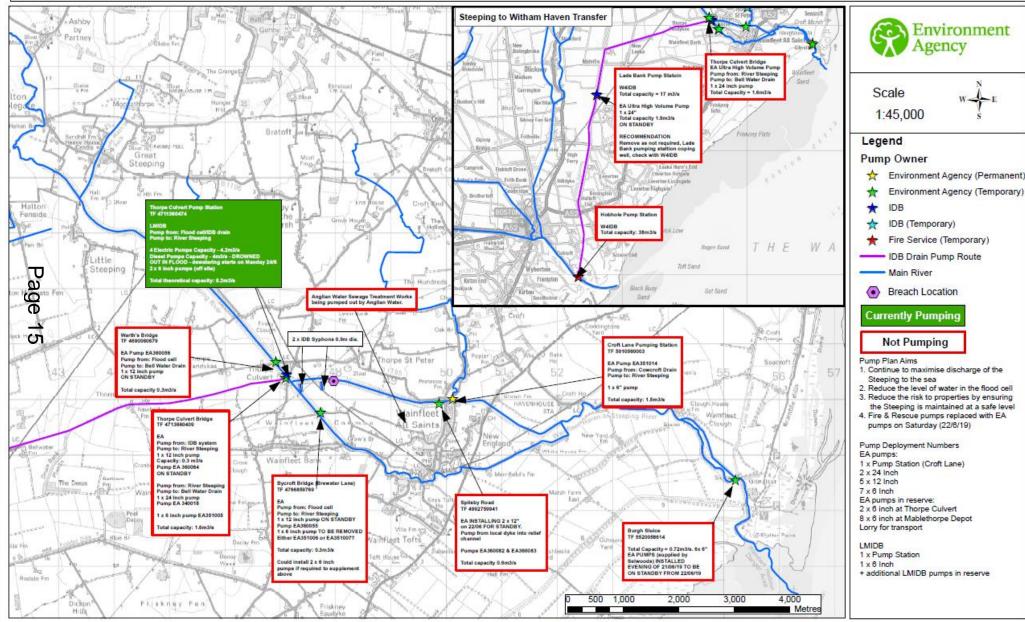


Work ongoing – 26-06-19

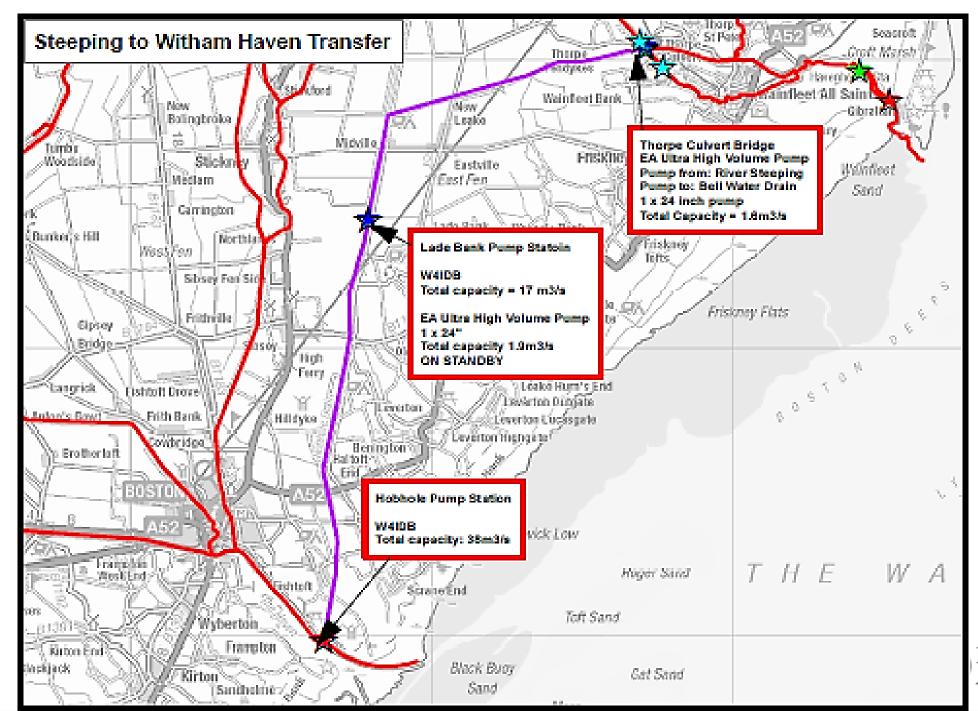




River Steeping - Pump Locations Map updated 24 June 2019 - 06:20





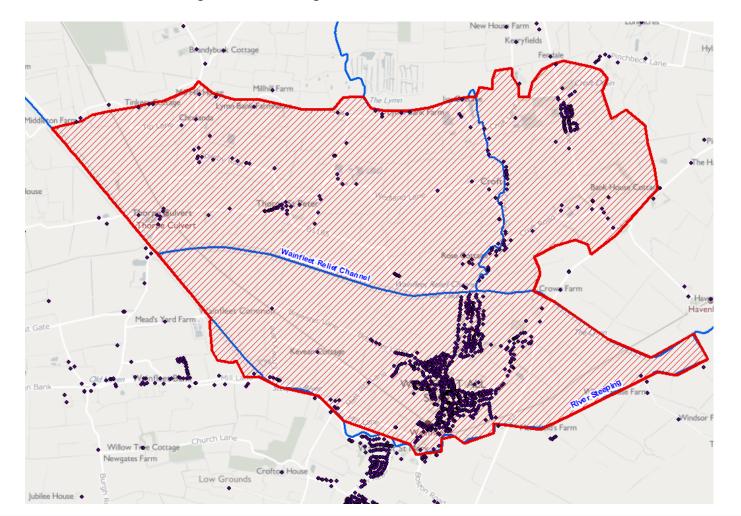


Environment Agency

Extension of the existing flood warning area to cover Wainfleet risk Area

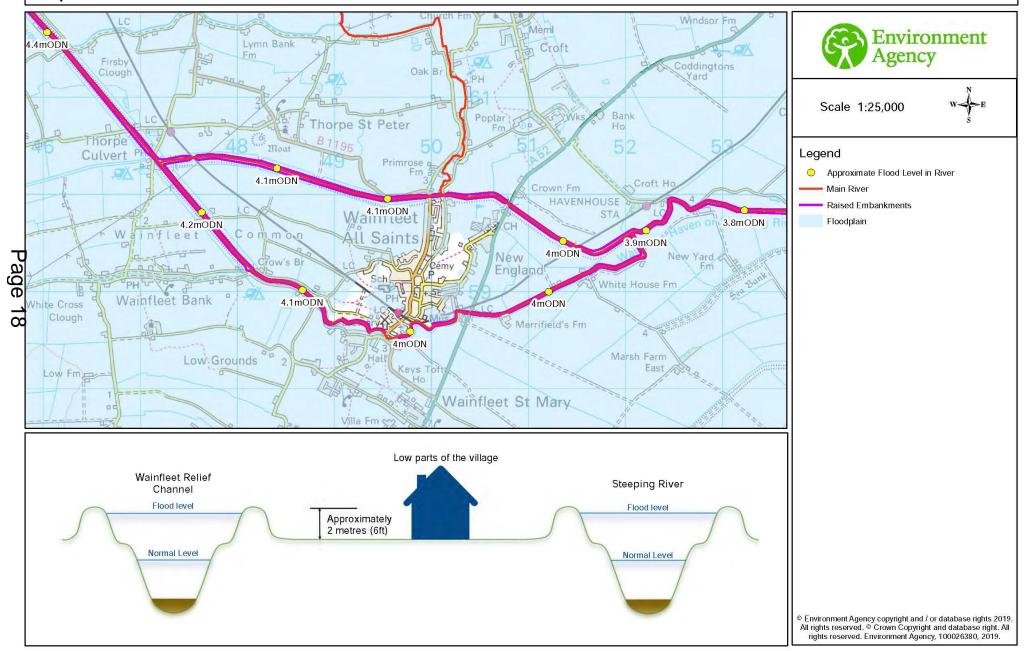
Before this flood incident the flood cell at Wainfleet was partially covered by Flood Warning Areas. This meant that in the interim until permanent bank repairs are complete, we'd have limited ability to warn properties at risk.

To address this we have extended an existing flood warning to cover the entire area at risk





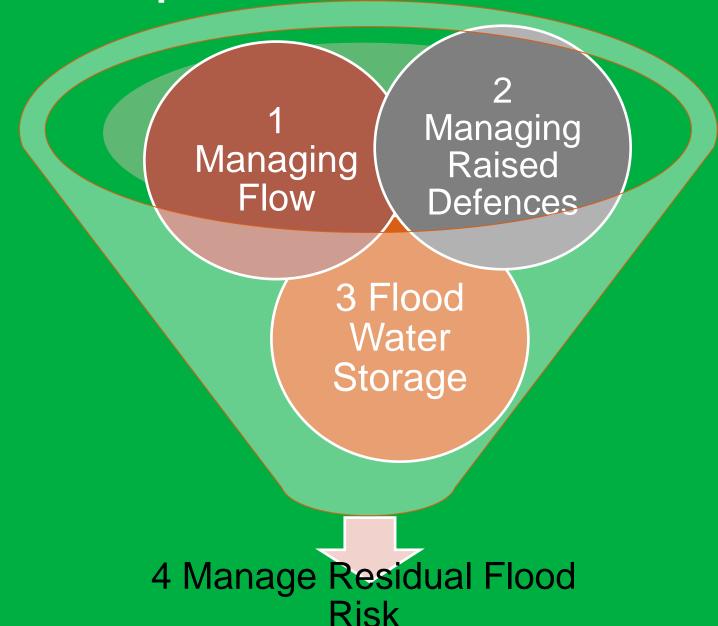
Wainfleet - Comparison of river and land levels Map created 28 June 2019







Themes for Improvements Sub Group





Managing Flow Control of silt Conveyac entering the System Management of Structures

Managing Raised Flood Defences

Routine Maintenance Rebuild & Refurbish





Floodwater Storage

Natural Flood Management



Flood Reservoirs



Overspill Areas





Manage Residual Flood Risk (A climate resilient community)













FUNDING & BENEFITS GROUP

- Investigate Sustainable Funding Streams
- Investigate Alternative Funding Streams
- Clarify Benefits to funders
- Coordinate Funding Bids (ERDF)



COMMUNICATIONS AND ENGAGEMENT GROUP

- Weekly Drop In Sessions in Wainfleet Ongoing
- Monthly Newsletter
- Pumping Station Open Day
- Catchment Tours

