



Trent Valley Internal Drainage Board Water Management Consortium

**Presentation to Rushcliffe Borough Council
Communities Scrutiny Group
7th October 2020**

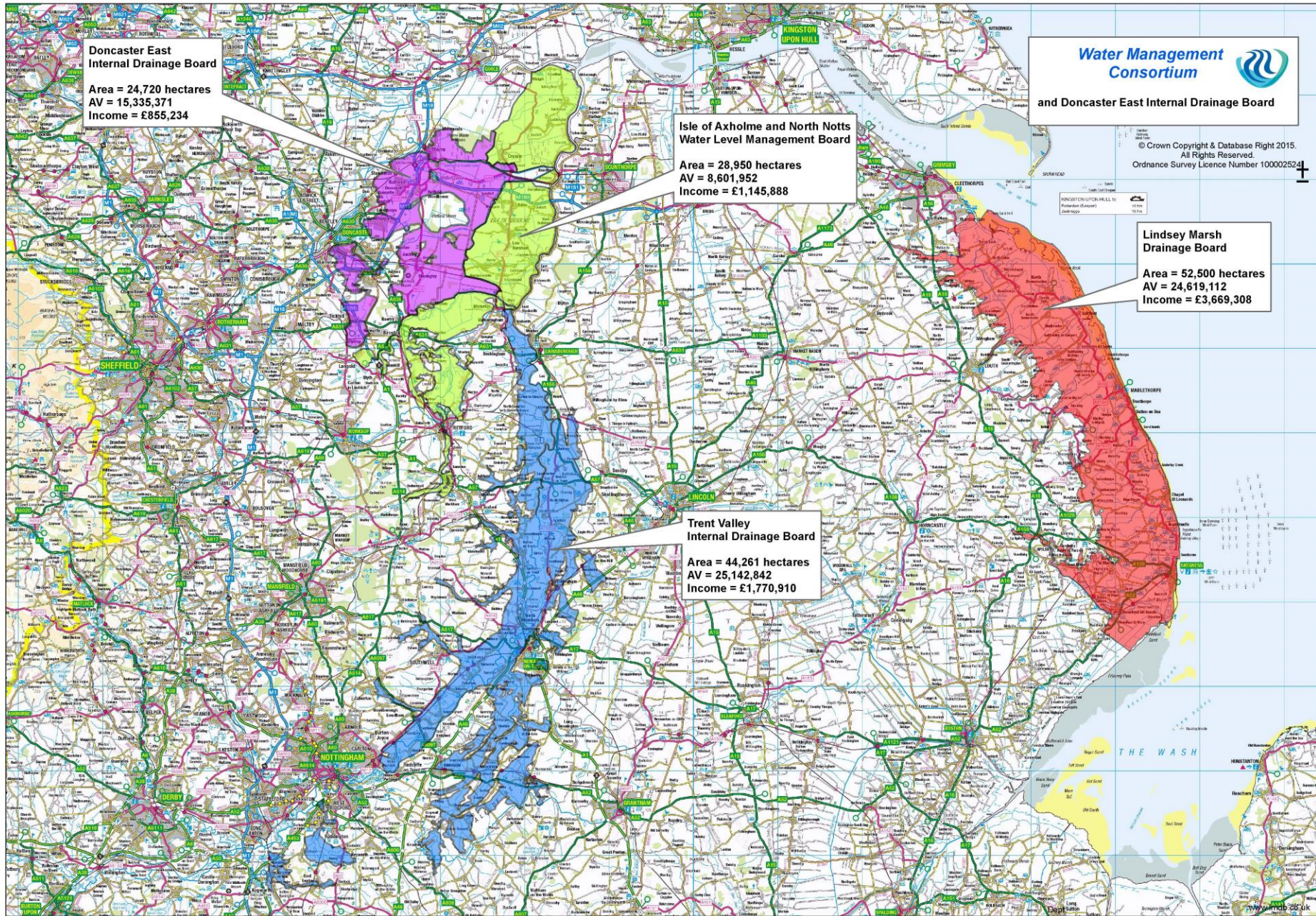
What is an Internal Drainage Board?

- IDBs occur where there is a particular flood risk to an area and where the existence of a local public authority is thought necessary to alleviate that risk; an area which will derive benefit or avoid danger as a result of drainage operations.
- IDBs are local public authorities, existing to defend a local area from flood risk, and to manage water levels.
- IDBs operate within a framework laid down by statute.
- IDBs activities normally involve the exercise of a permissive power, enabling them to undertake defined activities if they so wish, rather than a statutory duty.

The Water Management Consortium

- Isle of Axholme and North Nottinghamshire Water Level Management Board
- Trent Valley Internal Drainage Board
- Lindsey Marsh Drainage Board

Management Services also provided to Doncaster East Internal Drainage Board



Trent Valley Internal Drainage Board

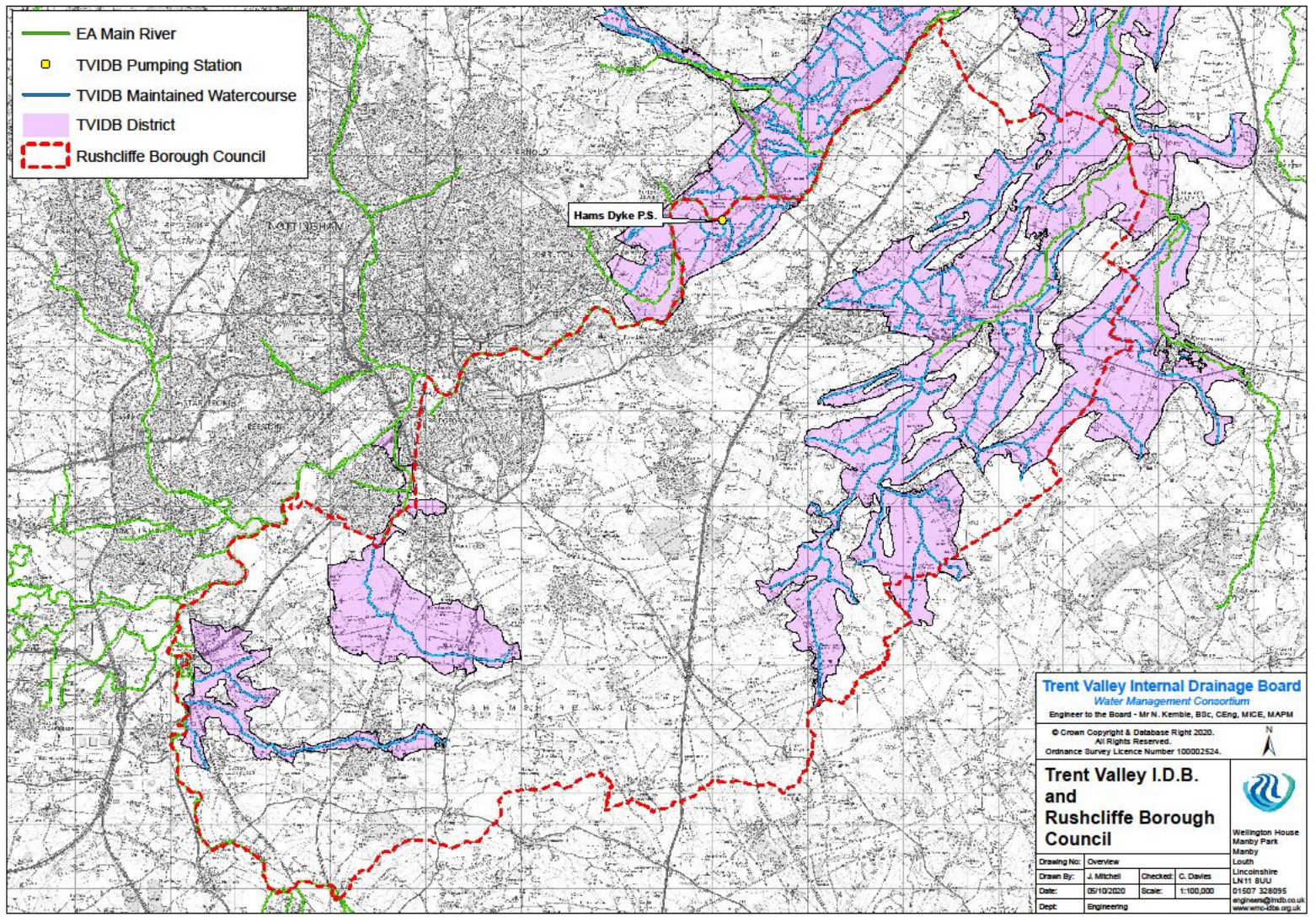
- Formed in 2012 (amalgamation of Kingston Brook, Fairham Brook, Laneham and Newark IDBs).
- Covers an area of over 44,000 hectares.
- Maintains 778km of watercourse.
- Operates 18 Pumping Stations.

The Board

- Managed by a Board 25 Board members - 12 elected by drainage ratepayers, 13 appointed by district/borough councils.
- Elections are held every three years for those members directly elected by the drainage ratepayers.
- Appointed members do not have to be councillors or employees of the council. They should have knowledge or experience relevant to the Board.
- Members are accountable for the actions and omissions of the IDB they represent. They must take all reasonable steps to ensure that the IDB acts properly with due care and attention to the law.
- All members are there to represent the Board and decisions should not be prejudiced by political influences unrelated to the functions of the Board.

Transparency and Accountability

- We provide an efficient, value for money service to our ratepayers and promote a culture of openness and transparency.
- Board meetings held bi-monthly.
- Annual external audit of accounts and independent internal auditor.
- Annual Report to DEFRA.
- Information posted on the website.
- Advice from the Association of Drainage Authorities.
- Environment Agency has supervisory powers in relation to IDB boundaries, reconstitution, etc.



- EA Main River
- TVIDB Pumping Station
- TVIDB Maintained Watercourse
- TVIDB District
- Rushcliffe Borough Council

Trent Valley Internal Drainage Board
Water Management Consortium
 Engineer to the Board - Mr N. Kemble, BSc, CEng, MICE, MAPM

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 and
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Drawing No:	Overview		
Drawn By:	J. Mitchell	Checked:	C. Davies
Date:	05/10/2020	Scale:	1:100,000
Dept:	Engineering		

Income and Expenditure 2019/20

Income

Rates and Levies	£1,667,160
Other (inc grants)	£504,535
	£2,171,695

Expenditure

Drain Maintenance	£273,190
Pumping Stations	£269,707
Engineering Projects	£875,458
Other	£1,326,362
	£2,744,717

Surplus/Deficit	-£573,022
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Income from Drainage Rates and Special Levies 2020/21

	<i>Amount</i>
Drainage rates in respect of agricultural land and agricultural buildings	£409,895
Newark and Sherwood District Council	£584,575
Rushcliffe Borough Council	£283,302
Bassetlaw District Council	£431,698
West Lindsey District Council	£41,358
North Kesteven District Council	£29,889
Gedling Borough Council	£19,189
Melton Borough Council	£18,718

Maintenance

- Flailing and weedcutting is undertaken either annually or every two to three years depending what is required.
- This work is prioritised depending on the area protected, e.g. Kingston and Fairham Brook, and Shelford catchment are maintained every year.



Winter Works

- Regular reforming/desilting of watercourses is undertaken to ensure they continue to function at design standard.
- Assets are inspected annually and work prioritised.
- Extensive tree and bushing work is undertaken annually to ensure access is maintained.
- A programme of access improvements is underway to increase efficiency.

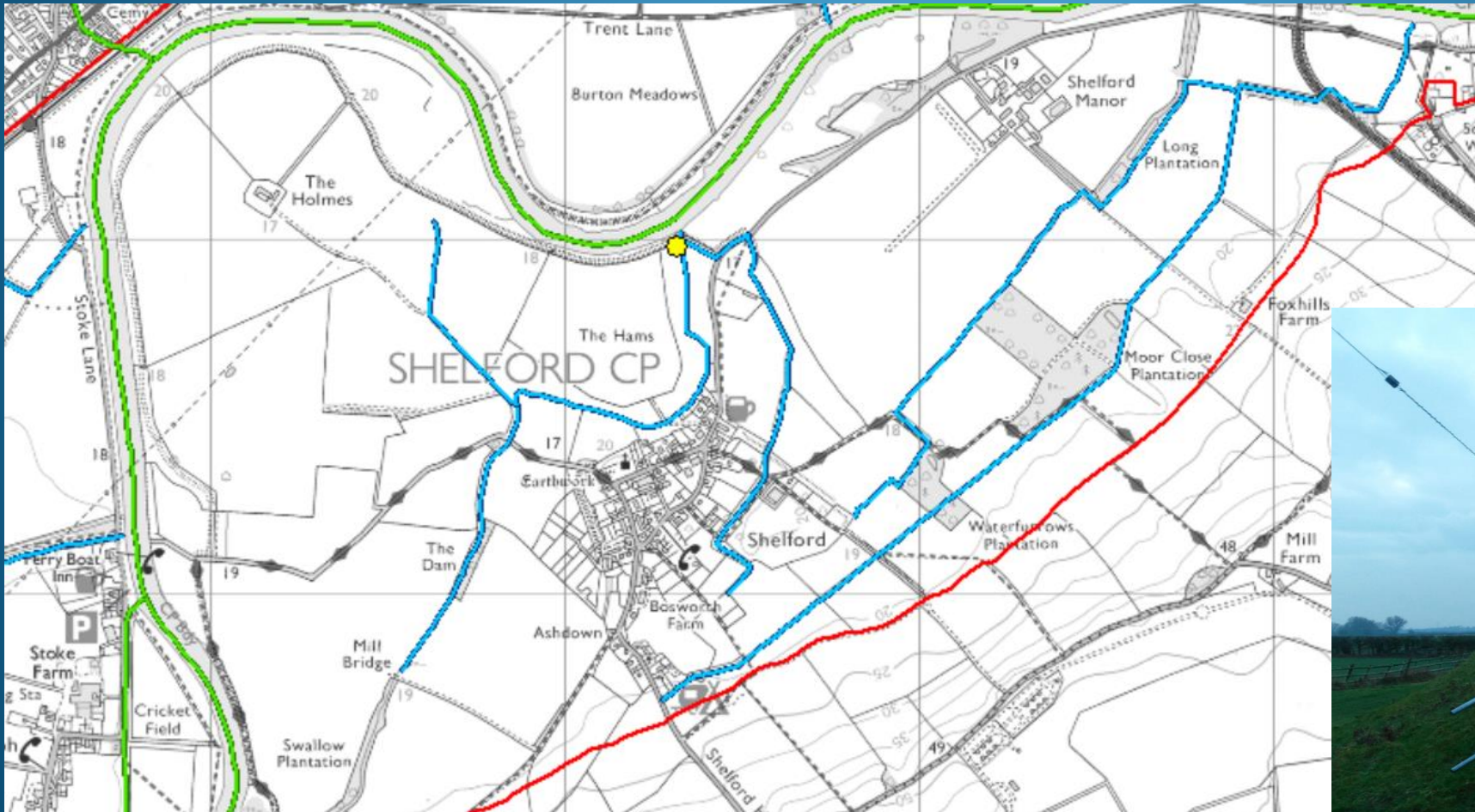




Capital Works

- Regular Maintenance Programme in place for Pumping Stations to ensure they continue to operate effectively.
- Pumps refurbished on a ten year cycle and major pumping station overhaul every 30 years.

Hams Dyke Pumping Station Refurbishment 2022 - Estimated Cost £413,000



Environmental

- Sympathetic management of watercourses ensures effective flood and water level management and meets our statutory obligation to conserve and enhance the environment.
- Dedicated Environmental Officer.
- Actively involved with Environmental partners.
- Environmental surveys undertaken prior to work.
- Mitigation works undertaken.
- Recording of environmental sightings, e.g. water voles.
- Erection of barn owl boxes and annual monitoring with Hawk and Owl Trust.



Water Level Management

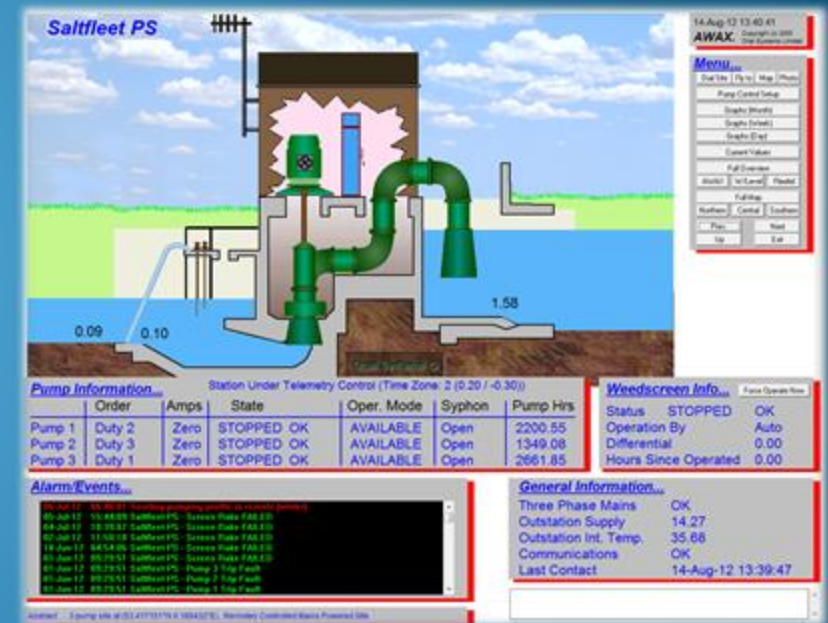
- Changing weather patterns mean a greater need for water level management, not just flood protection.
- The Board aims, wherever possible, to higher water levels in the summer to assist with irrigation and lower levels in the winter to allow additional storage.
- Assessing the impacts of future development, e.g. surveys and modelling of the Brooks.

Flooding

- The Board is aware of the devastating effect flooding has on people, their homes, and local businesses including prime agricultural farmland.
- Whilst we do not have a statutory duty to prevent flooding, the Board aims to provide a level of protection against a 1 in 75 year rainfall event for urban areas and 1 in 10 years for agricultural land.
- Catchment studies are carried out taking into account climate change, rising sea levels, increased development etc.

Dealing with an Emergency

- Emergency Procedures in place.
- Duty officer on call 24/7 to respond to major problems.
- Shift system operated during an event, staff on standby and backup from Consortium.
- Proactive Board Members.
- Telemetry system to enable remote monitoring and control of pumping stations.



- Weather monitored and pre-emptive measures taken.
- Central control room manned 24 hours a day during a major flood event.
- Liaison with EA and Local Authorities and IDB presence in central emergency control centre.
- Additional manpower and equipment such as pumps available from the Consortium partners.



Public Sector Cooperation Agreement (PSCA) Works

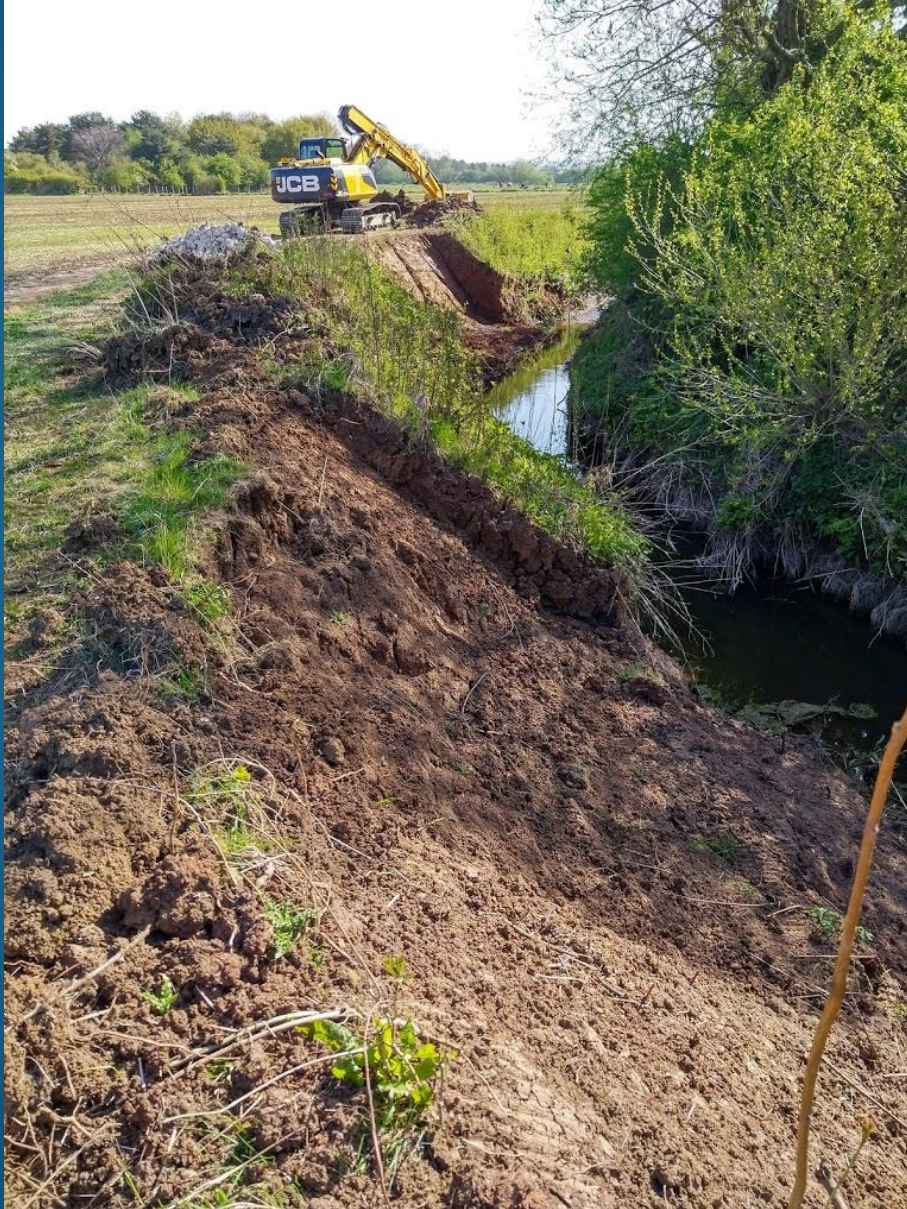
- Planned partnership schemes in the area on main rivers for Environment Agency, e.g. River Greet and Cocker Beck.
- **All costs fully reimbursed by EA.**
- Partnership scheme on Fairham Brook with EA.

Examples of Work Undertaken in the Rushcliffe Area by the Board this Year

- Kingston Brook at East and West Leake
- Fairham Brook at Bunny

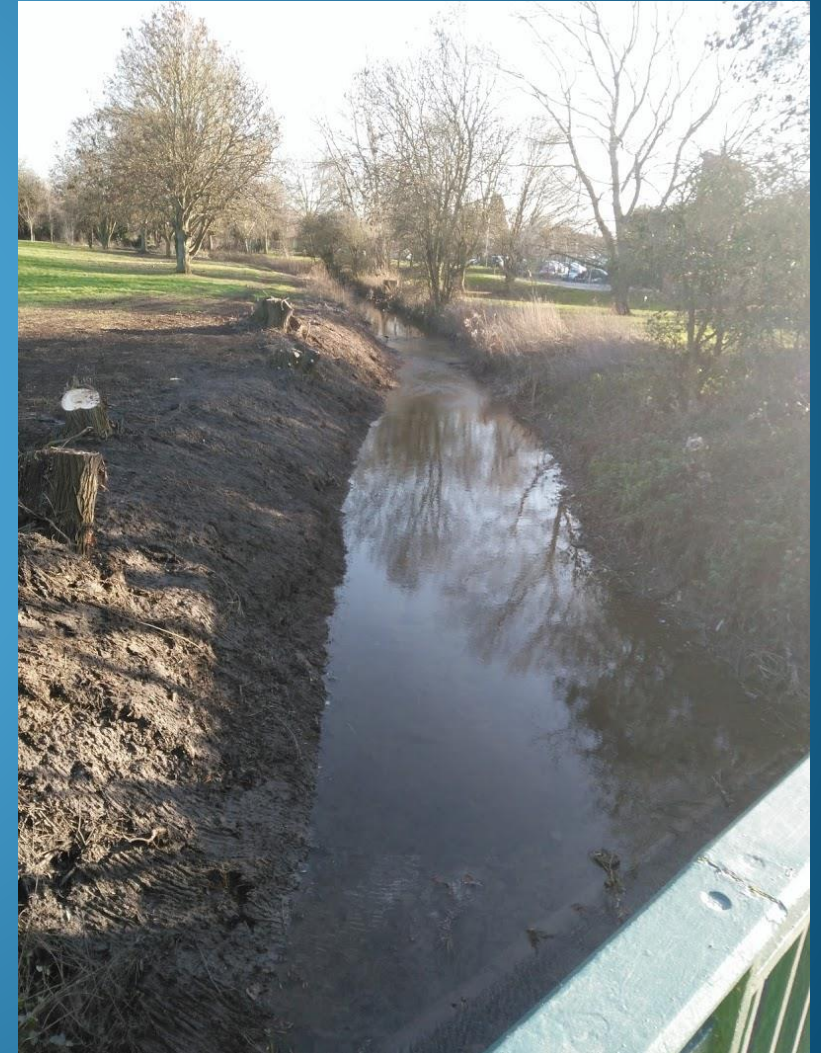
Kingston Brook Bank Repair, West Leake





Fairham Brook Bank Repair, Bunny

Upstream of Gotham Road



Removal of silt bed and trees through the Park



Removal of silt bed and trees through the Park



Access improvements upstream of Gotham Road



Removal of rotten willow tree in the park



Temporary access crossing point over Sheep Wash Brook

