

# **Lincs Scrutiny**

## **Nov 2020**

### **Recovery Update**

Pete Reilly  
Environment Agency

# Boston Haven

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Jackson



Environment  
Agency

**Boston Haven Banks**

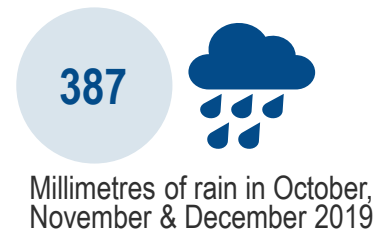
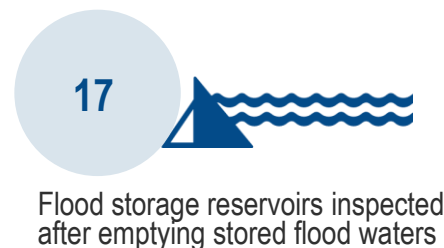
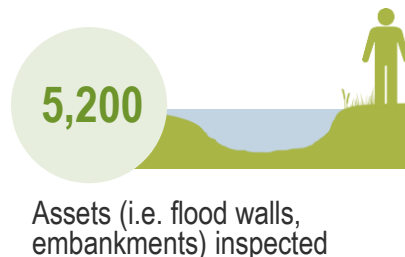
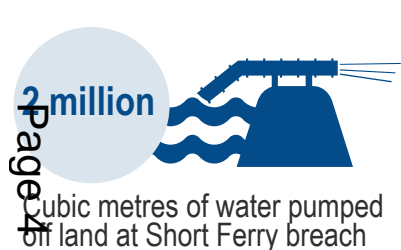
# Boston Haven

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# Lincs/Northants Winter 2019/20 Recovery

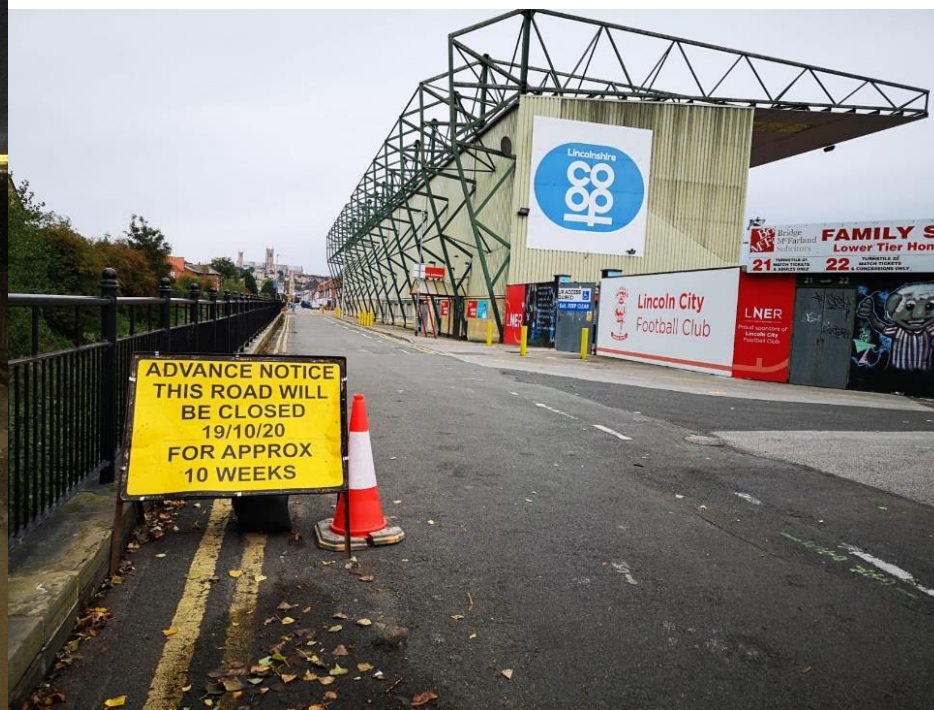
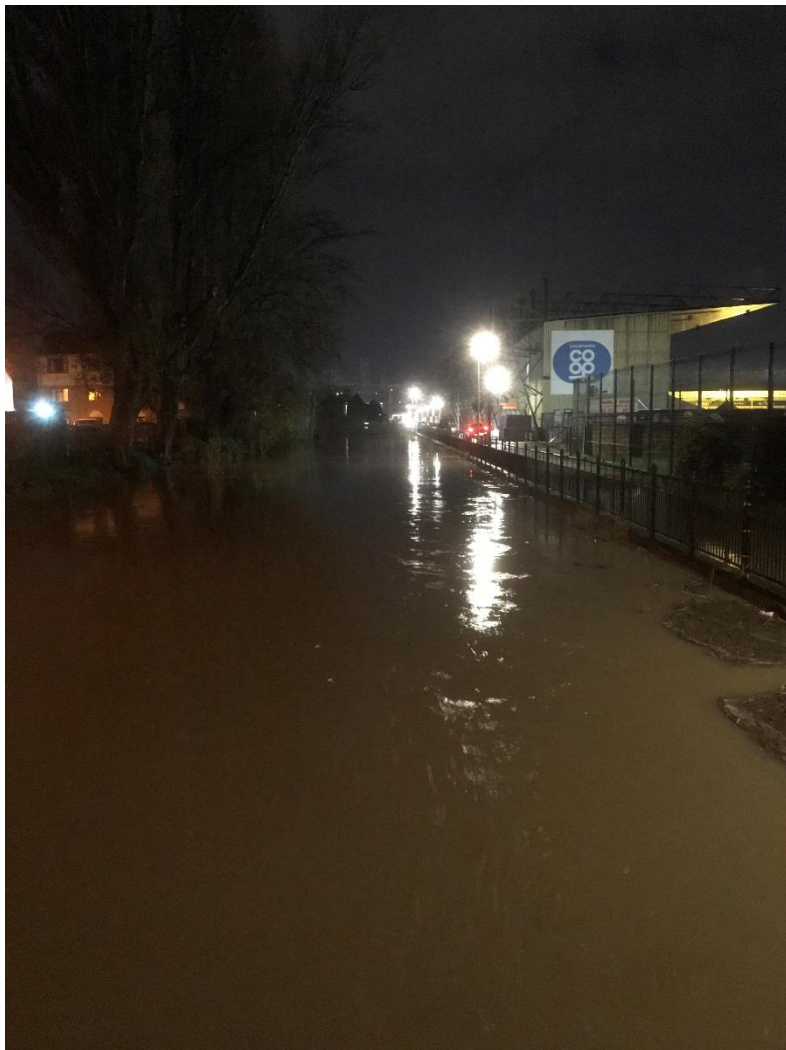
September, October and November 2019 we saw significant rainfall across Lincolnshire and Northamptonshire, resulting in high river levels, damage to defences and flooding to land and properties. This infographic shows some statistics on the work we have been doing since.





# Lincoln Football Ground 2019 incident and 2020 recovery

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# Barlings Eau breach 2019 incident and 2020 recovery

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## Wainfleet Flood Relief 2019 incident and 2020 recovery

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## Timberland 2019 incident and 2020 recovery

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## Timberland Delph 2020 recovery



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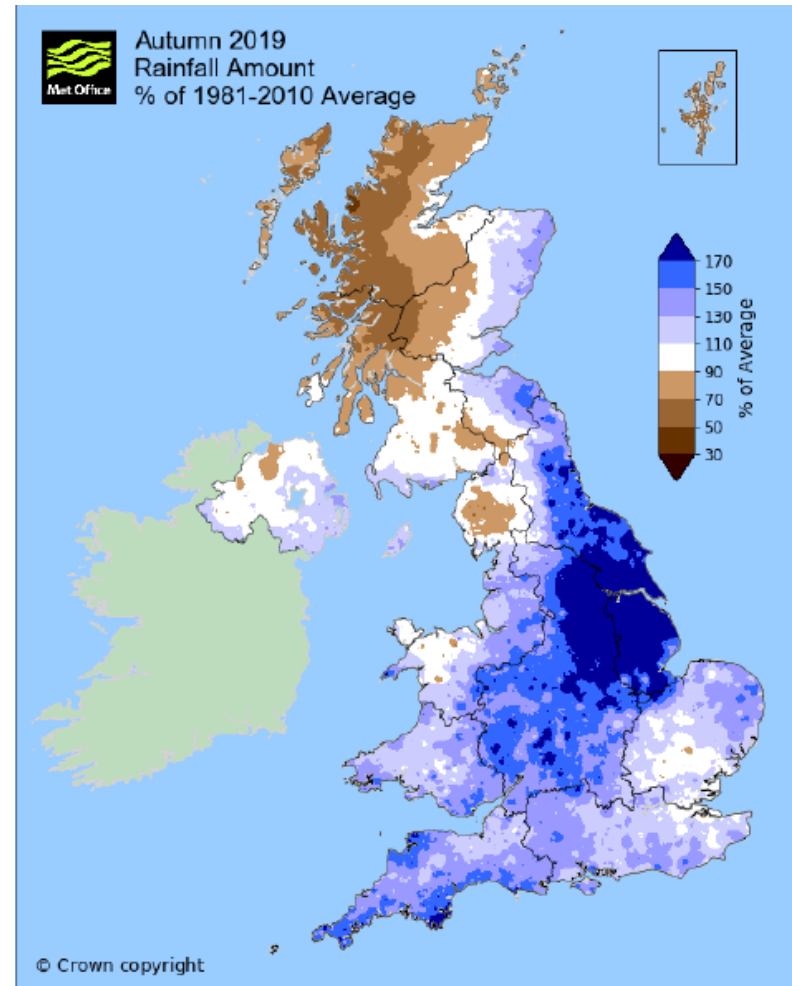
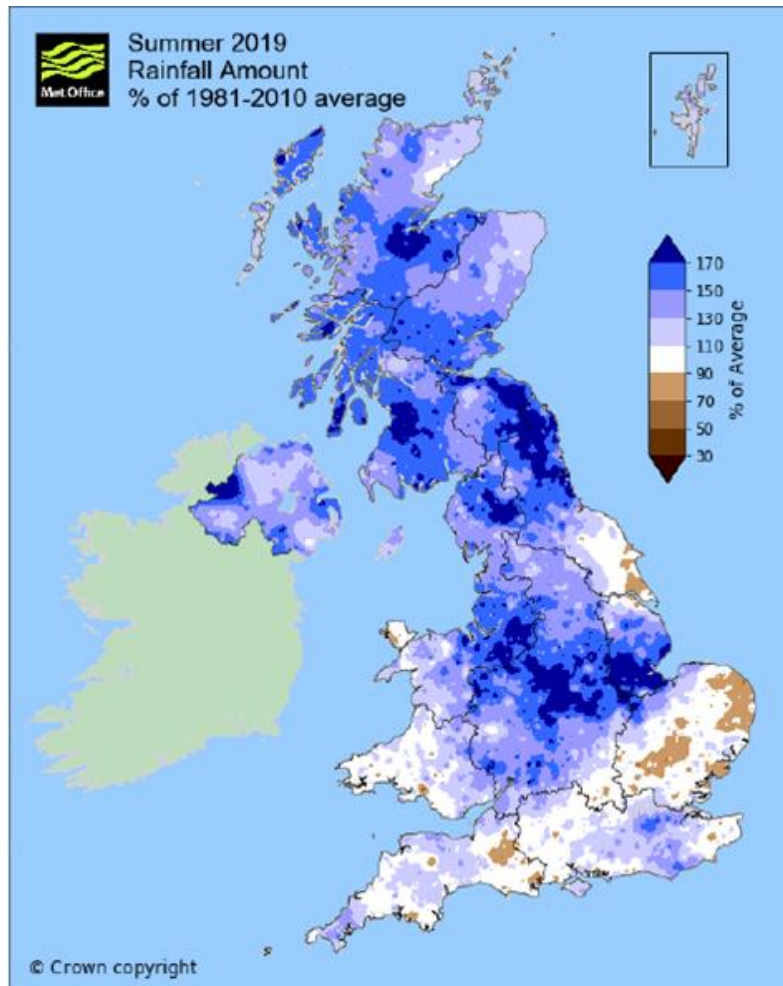
## Ancholme at Bishopsbridge. Impacts on rural property and agricultural land

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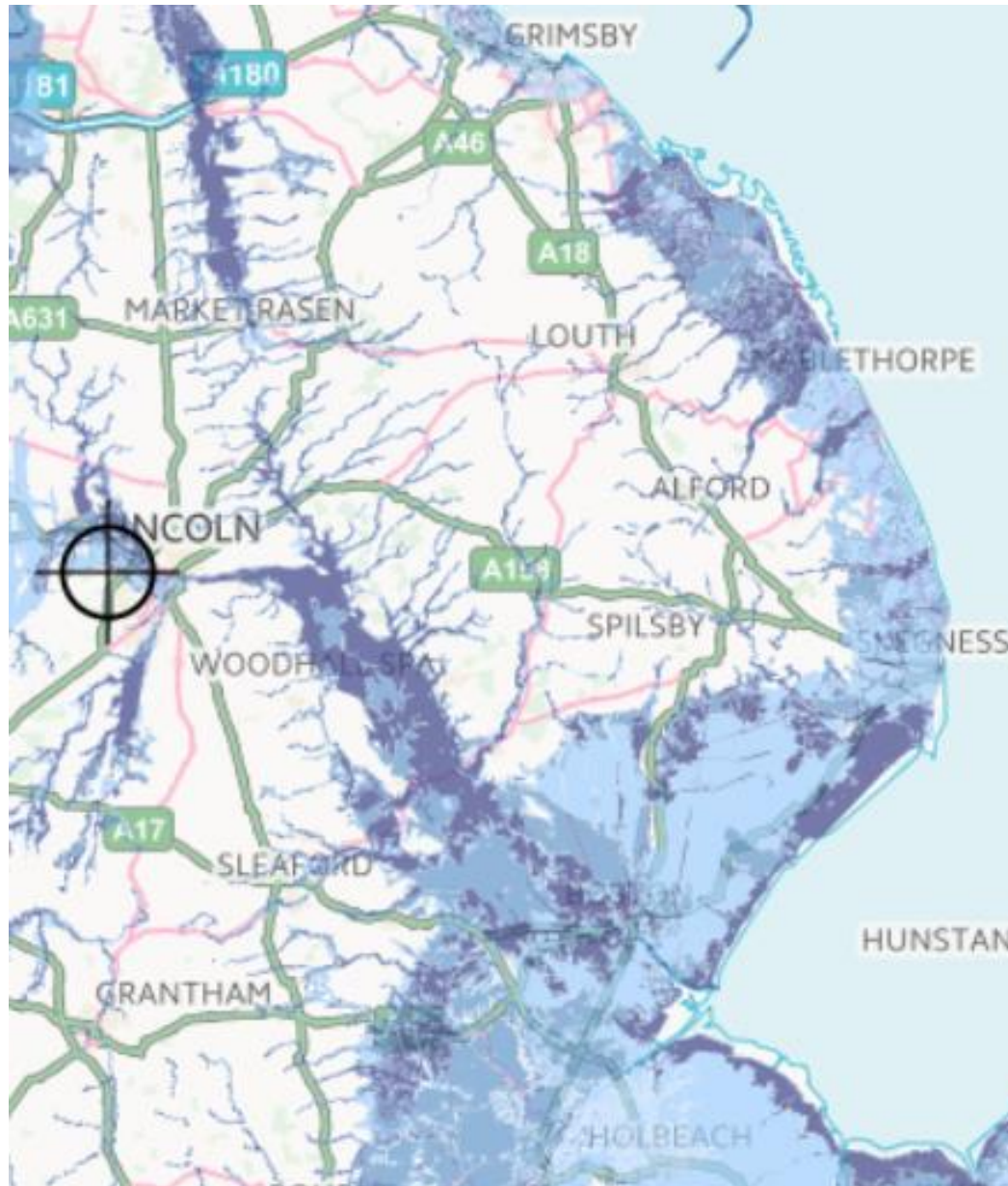
# 2019 summer and autumn rain representing 170% of 1981-2010 annual average

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# Extent of Lincolnshire flood plain is vast



# Water, water everywhere

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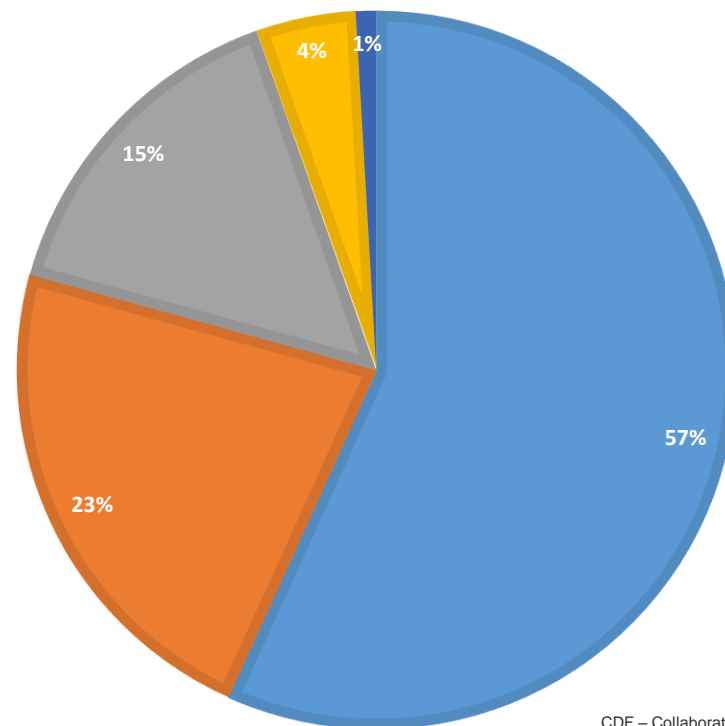
# Scale of Recovery

138 individual projects – 34 sub-projects within Project 1 alone  
Recovery achieved through multiple delivery routes

Kettleby Beck, Brigg
Old River Ancholme, Site 2
North Kelsey Beck
Bishop Bridge Seepage
Barlings Eau LHB site 1, Short Ferry
West Drain (South Ferriby) Slip
Barlings Eau LHB site 2, Short Ferry
Northampton Washlands Secondary Control Gate Repair
Barlings Eau RHB seepage / slip
Park Beck
New Cut Flood Storage Reservoir, River Freshney
Timberland Delph (RHB), Martin Dales
Timberland Delph (RHB), Martin Dales - Piping Site No.2
Timberland Delph LHB
Kyme Eau, Chapel Hill
Old River Ancholme, Site 1
Cobblers Lock, River Sleas Bypass (Anwick)
Billinghay Skirth, Phase 2 (RHB)
Sandhill Beck, Washingborough
West Drain Pointing Doors, South Ferriby
Hibaldstow Highland Drain
River Till Near Broxholme & Bransby Cw pumped outfall
Steeping River at Wainfleet flood wall damage
Timberland Delph NE of Timberland
Hibaldstow Catchwater NE of Hibaldstow
Kyme Eau West of South Kyme
Wainfleet Relief Channel
Carr Dyke Billinghay
River Ancholme Toe Protection Repairs - NE Wressle
Northampton Washlands Secondary Control Gate Repair
North Kelsey Beck
River Witham LHB at Fiskerton
River Ancholme East of Hibaldstow
Steeping River at Wainfleet toe erosion and embankment slips (11 Assets there)

## RECOVERY DELIVERY ROUTES

■ CDF ■ IDB ■ FOF ■ MEICA Framework ■ EA Field Team



CDF – Collaborative Delivery Framework  
IDB – Internal Drainage Boards  
FOF – FCRM Operational Framework



# Types of Recovery work - Breaches



# Breach - Timberland



# Breach - Timberland

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# Breach - Timberland

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Environment  
Agency

# Breach - Timberland

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# Breach - Timberland





# Breach – Barlings Eau



# Breach – Barlings Eau



# Breach – Barlings Eau

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# Breach – Barlings Eau



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# Breach - Barlings Eau



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# Breach – Barlings Eau

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# Breach – Barlings Eau



# Breach – Barlins Eau



# Breach – Barlings Eau

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# Breach – Barlings Eau

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# Includes accessing remote sites

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# Remote sites



# Remote sites





# Remote sites





# Recovery - Burton Catchwater Drain SP2-04R

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# Recovery - Burton Catchwater Drain SP2-04R



# Recovery - Burton Catchwater Drain SP2-04R





# Recovery - Burton Catchwater Drain SP2-04R

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# Recovery - Burton Catchwater Drain SP2-04R



# Recovery - St Clements, Fiskerton 2020

## recovery SP1-28C

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# Recovery - St Clements, Fiskerton 2020

## recovery SP1-28C

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# Recovery - St Clements, Fiskerton SP1-28C

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# Recovery - St Clements, Fiskerton SP1-28C

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# Recovery - St Clements, Fiskerton SP1-28C



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# Recovery - St Clements, Fiskerton SP1-28C

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# Recovery - St Clements, Fiskerton SP1-28C progression

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# Recovery - St Clements, Fiskerton SP1-28C progression

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# Recovery - St Clements, Fiskerton SP1-28C progression

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# Recovery - St Clements, Fiskerton SP1-28C progression



# Recovery - St Clements, Fiskerton SP1-28C progression



# Recovery - St Clements, Fiskerton SP1-28C progression

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# Recovery - St Clements, Fiskerton SP1-28C progression



# Recovery - St Clements, Fiskerton SP1-28C progression



# Recovery - St Clements, Fiskerton SP1-28C progression





# Recovery means building up low spots



# Low spots

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# Low spots

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# Low spots

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# Low spots

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# Low spots

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# Low spots



# Low spots





# Low spots





# Recovery means tree removal and brushing work





# And vegetation clearance

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# Recovery means dealing with badgers, moles, rabbits and rats

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# And making sure they can't return

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# And rehoming protected species

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# And rehoming protected species





# And rehoming protected species

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## And rehoming protected species



# Recovery means large engineering works - Black Sluice Complex

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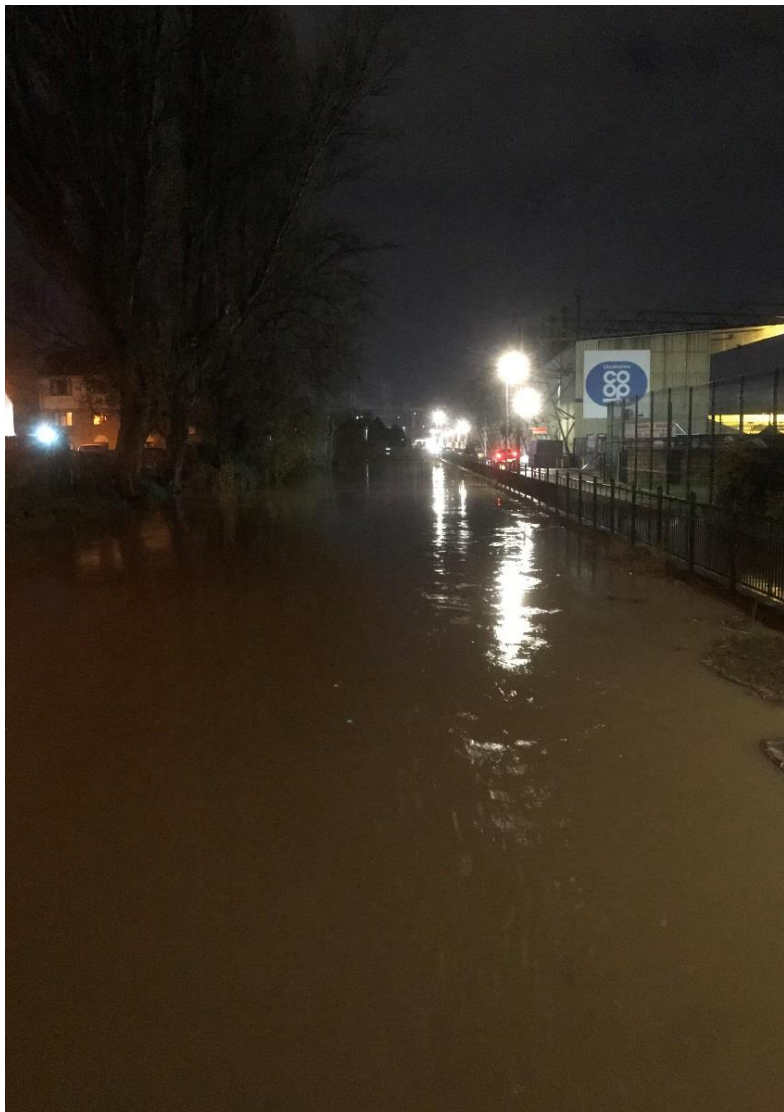
# Lincoln Defences

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# Lincoln Football Ground 2019 incident and 2020 recovery

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## Wainfleet Flood Relief 2019 incident and 2020 recovery





## Impacts on rural property and agricultural land



J. Anyan