

# APPENDIX F

## EA FLOOD DATA

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**Flood Map for Planning:** The Flood Map for Planning is now classed as Open Data. As such it can be downloaded free of charge under an open data licence from the following addresses:

- <https://data.gov.uk/publisher/environment-agency>
- <https://flood-map-for-planning.service.gov.uk/>

Your development is in **flood zone 1, 2 and 3**.

The flood zones on this map:

- refer to the land at risk of flooding and do not refer to individual properties refer to the probability of river and sea flooding.
- ignore the presence of defences,
- do not take into account potential impacts of climate change.
- This data is updated on a quarterly basis as better data becomes available.
- The NaFRA 2 will be completed Summer 2024 and the flood zones will then be updated [NaFRA2](#) (As such we are not accepting any flood map challenges at this time).

|                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Zone 1:<br/>Low<br/>Probability</b>        | Land having a less than 0.1% annual probability of river or sea flooding. (Shown as 'clear' on the Flood Map for Planning – all land outside Zones 2, 3a and 3b)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Zone2:<br/>Medium<br/>Probability</b>      | Land having between a 1% and 0.1% annual probability of river flooding; or land having between a 0.5% and 0.1% annual probability of sea flooding. (Land shown in light blue on the Flood Map)                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Zone 3a:<br/>High<br/>Probability</b>      | Land having a 1% (1 in 100) or greater annual probability of river flooding; or Land having a 0.5% or greater annual probability of sea. (Land shown in dark blue on the Flood Map)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Zone 3b:<br/>Functional<br/>Floodplain</b> | <ul style="list-style-type: none"> <li>• land having a 3.3% or greater annual probability of flooding, with any existing flood risk management infrastructure operating effectively; or</li> <li>• land that is designed to flood (such as a flood attenuation scheme), even if it would only flood in more extreme events (such as 0.1% annual probability of flooding).</li> <li>• Local planning authorities should identify in their Strategic Flood Risk Assessments areas of functional floodplain and its boundaries accordingly, in agreement with the Environment Agency.</li> <li>• (Not separately distinguished from Zone 3a on the Flood Map)</li> </ul> |

| Probability                   | Percentage chance of flooding each year |
|-------------------------------|-----------------------------------------|
| 1 in 2 year                   | 50%                                     |
| 1 in 5 year                   | 20%                                     |
| 1 in 20 year                  | 5%                                      |
| 1 in 50 year                  | 2%                                      |
| 1 in 100 year                 | 1%                                      |
| 1 in 1000 year                | 0.1%                                    |
| <b>Surface Water Flooding</b> |                                         |
| 1 in 30                       | High Risk                               |
| 1 in 100                      | Medium Risk                             |
| 1 in 1000                     | Low Risk                                |

**Updated Climate Change Guidance:** On 19th February 2016, the [Flood risk assessments: climate change allowances](#) was published on [www.gov.uk](http://www.gov.uk) website. It has replaced previous guidance [Climate Change Allowances for Planners](#). The climate change guidance can be found at: <https://www.gov.uk/guidance/flood-risk-assessments-climate-change-allowances>

The climate change allowances for this location are:

-  **29% (central)**
-  **39% (higher central),**
-  **62% (upper)**

**Modelled Information:** Tidal Trent, Jacobs, 2023

| NODE_ID    | X      | Y      | 20% (1 in 5) modelled level | 20% (1 in 5) modelled flow | 10% (1 in 10) modelled level | 10% (1 in 10) modelled flow | 5% (1 in 20) modelled level | 5% (1 in 20) modelled flow |
|------------|--------|--------|-----------------------------|----------------------------|------------------------------|-----------------------------|-----------------------------|----------------------------|
| TRENT_015  | 482475 | 384444 | 5.76                        | 584.37                     | 5.77                         | 596.33                      | 5.82                        | 633.65                     |
| TRENT_016  | 482334 | 384071 | 5.78                        | 583.99                     | 5.79                         | 595.91                      | 5.86                        | 633.34                     |
| TRENT_017  | 482673 | 383618 | 5.84                        | 579.18                     | 5.86                         | 586.73                      | 5.96                        | 595.44                     |
| TRENT_017A | 482344 | 383895 | 5.80                        | 583.81                     | 5.81                         | 595.76                      | 5.88                        | 633.32                     |
| TRENT_018  | 482835 | 383137 | 5.87                        | 579.45                     | 5.89                         | 586.77                      | 5.99                        | 606.06                     |

| NODE_ID    | X      | Y      | 2% (1 in 50) modelled level | 2% (1 in 50) modelled flow | 1.3% (1 in 75) modelled level | 1.3% (1 in 75) modelled flow | 1% (1 in 100) modelled level | 1% (1 in 100) modelled flow |
|------------|--------|--------|-----------------------------|----------------------------|-------------------------------|------------------------------|------------------------------|-----------------------------|
| TRENT_015  | 482475 | 384444 | 6.40                        | 857.16                     | 6.55                          | 932.28                       | 6.63                         | 980.06                      |
| TRENT_016  | 482334 | 384071 | 6.51                        | 767.23                     | 6.69                          | 836.67                       | 6.78                         | 836.71                      |
| TRENT_017  | 482673 | 383618 | 6.61                        | 698.90                     | 6.80                          | 748.81                       | 6.90                         | 783.05                      |
| TRENT_017A | 482344 | 383895 | 6.53                        | 772.72                     | 6.71                          | 837.80                       | 6.80                         | 847.35                      |
| TRENT_018  | 482835 | 383137 | 6.68                        | 699.79                     | 6.88                          | 749.67                       | 6.99                         | 751.93                      |

| NODE_ID    | X      | Y      | 0.5% (1 in 200)<br>modelled level | 0.5% (1 in 200)<br>modelled flow | 0.1% (1 in 1000)<br>modelled level | 0.1% (1 in 1000)<br>modelled flow |
|------------|--------|--------|-----------------------------------|----------------------------------|------------------------------------|-----------------------------------|
| TRENT_015  | 482475 | 384444 | 6.85                              | 1070.28                          | 7.01                               | 1172.97                           |
| TRENT_016  | 482334 | 384071 | 7.00                              | 902.08                           | 7.17                               | 993.60                            |
| TRENT_017  | 482673 | 383618 | 7.11                              | 845.31                           | 7.27                               | 922.55                            |
| TRENT_017A | 482344 | 383895 | 7.02                              | 917.22                           | 7.18                               | 1008.89                           |
| TRENT_018  | 482835 | 383137 | 7.21                              | 802.15                           | 7.38                               | 875.98                            |

| NODE_ID    | X      | Y      | 1% (100 year) plus<br>29% CC<br>level | 1% (100 year) plus<br>29% CC<br>flow | 1% (100 year) plus<br>39% CC<br>level | 1% (100 year) plus<br>39% CC<br>flow | 1% (100 year) plus<br>62% CC<br>level | 1% (100 year) plus<br>62% CC<br>flow |
|------------|--------|--------|---------------------------------------|--------------------------------------|---------------------------------------|--------------------------------------|---------------------------------------|--------------------------------------|
| TRENT_015  | 482475 | 384444 | 6.91                                  | 1099.75                              | 6.95                                  | 1120.49                              | 7.00                                  | 1155.21                              |
| TRENT_016  | 482334 | 384071 | 7.07                                  | 918.46                               | 7.11                                  | 934.54                               | 7.15                                  | 984.32                               |
| TRENT_017  | 482673 | 383618 | 7.19                                  | 865.56                               | 7.22                                  | 880.59                               | 7.26                                  | 909.82                               |
| TRENT_017A | 482344 | 383895 | 7.09                                  | 939.92                               | 7.13                                  | 956.16                               | 7.17                                  | 997.10                               |
| TRENT_018  | 482835 | 383137 | 7.28                                  | 810.86                               | 7.32                                  | 825.20                               | 7.36                                  | 867.07                               |

| 0.5% (200 year) 2121<br>HC CC level | 0.5% (200 year) 2121<br>HC CC flow | 0.5% (200 year) 2121<br>UE CC level | 0.5% (200 year) 2121<br>UE CC flow |
|-------------------------------------|------------------------------------|-------------------------------------|------------------------------------|
| Use fluvial cc                      | Use fluvial cc                     | Use fluvial cc                      | Use fluvial cc                     |
| Use fluvial cc                      | Use fluvial cc                     | Use fluvial cc                      | Use fluvial cc                     |
| Use fluvial cc                      | Use fluvial cc                     | Use fluvial cc                      | Use fluvial cc                     |
| Use fluvial cc                      | Use fluvial cc                     | Use fluvial cc                      | Use fluvial cc                     |
| Use fluvial cc                      | Use fluvial cc                     | Use fluvial cc                      | Use fluvial cc                     |

**Please note:** The flows provided represent **in channel flow only** and do not take into account flow on the floodplain.

All data is discussed as metres above Ordnance Datum (mAOD). This is based on the Ordnance Datum Newlyn in Cornwall. Tide gauges have been used over time to calculate a mean sea level datum point. This point is marked as height zero on maps in Britain. For more information please see: [Ordnance Datum Newlyn reaches 100 years | Blog | Ordnance Survey](#)

In regards, to hazard data there was none available for this site.

**Defence Information** Flood defence data is routinely updated and freely available at: [AIMS Spatial Flood Defences \(inc. standardised attributes\) - data.gov.uk](#) and [AIMS Asset Bundle - data.gov.uk](#).

**Historic Information** We have records of historic fluvial flooding at this location in 1947. Please note that we may or may not hold the original records in question. We do not make any claim as to the reliability of recorded flood extents or that all flood events in the area have been recorded. Please also be aware that flood defences may have been built subsequent to these historic flood events. Note - This information relates to the area the above named property is in, and is not specific to the property itself - it **does not** provide an indicator of flood risk **at individual property level**.

**Surface Water & Drainage:** The Environment Agency (empowered under the Water Resources Act 1991) concentrates on the major elements of the drainage system, managing flood risk arising from designated "main rivers" and the sea. The Flood & Water Management Act (2010) has given Lead Local Flood Authorities (LLFAs) responsibility for the management of local flood risk, which includes surface runoff, groundwater and flooding from ordinary watercourses (smaller rivers and streams). The LLFA for this area is **Nottinghamshire County Council**, and we recommend that you contact them with concerns about any flooding issues for this area.

Further information and maps for surface water, ordinary watercourses, and reservoir flooding can be found here: <https://www.gov.uk/check-long-term-flood-risk> ; [Reservoir flood maps: when and how to use them - GOV.UK \(www.gov.uk\)](#)

**Open Data Information:** Many datasets are now classed as Open Data and as such can be downloaded free of charge under an open data licence from the following address: <https://data.gov.uk/publisher/environment-agency>

**Permitting Information:** Under the Environmental Permitting (England and Wales) Regulations 2016, any permanent or temporary works in, over or under a designated main river will require an Environmental Permit for Flood Risk Activities from the Environment Agency. Any permanent or temporary works within 8 metres of the top of bank of a designated main river, or landward toe of a flood defence may require an Environmental Permit for Flood Risk Activities from the Environment Agency. In addition, any permanent or temporary works within the floodplain of a designated main river may also require an Environmental Permit for Flood Risk Activities. To find out whether your activity requires a permit or falls under a relevant exclusion, exemption or standard rule please follow this link: <https://www.gov.uk/guidance/flood-risk-activities-environmental-permits>. The Environment Agency require access to the watercourse and free movement up to 8m from the river bank/ defence for maintenance purposes.

**Please note that a permit is separate to and in addition to any planning permission granted.**

**Strategic flood risk assessments:** We recommend that you check the relevant local authority's strategic flood risk assessment (SFRA) as part of your work to prepare a site specific flood risk assessment. This should give you information about: the potential impacts of climate change in this catchment areas defined as functional floodplain flooding from other sources, such as surface water, ground water and reservoirs. This data has been generated by strategic scale flood models and is not intended for use at the individual property scale. If you're intending to use this data as part of a flood risk assessment, please include an appropriate modelling tolerance as part of your assessment. The Environment Agency regularly updates its modelling. We recommend that you check the data provided is the most recent, before submitting your flood risk assessment.

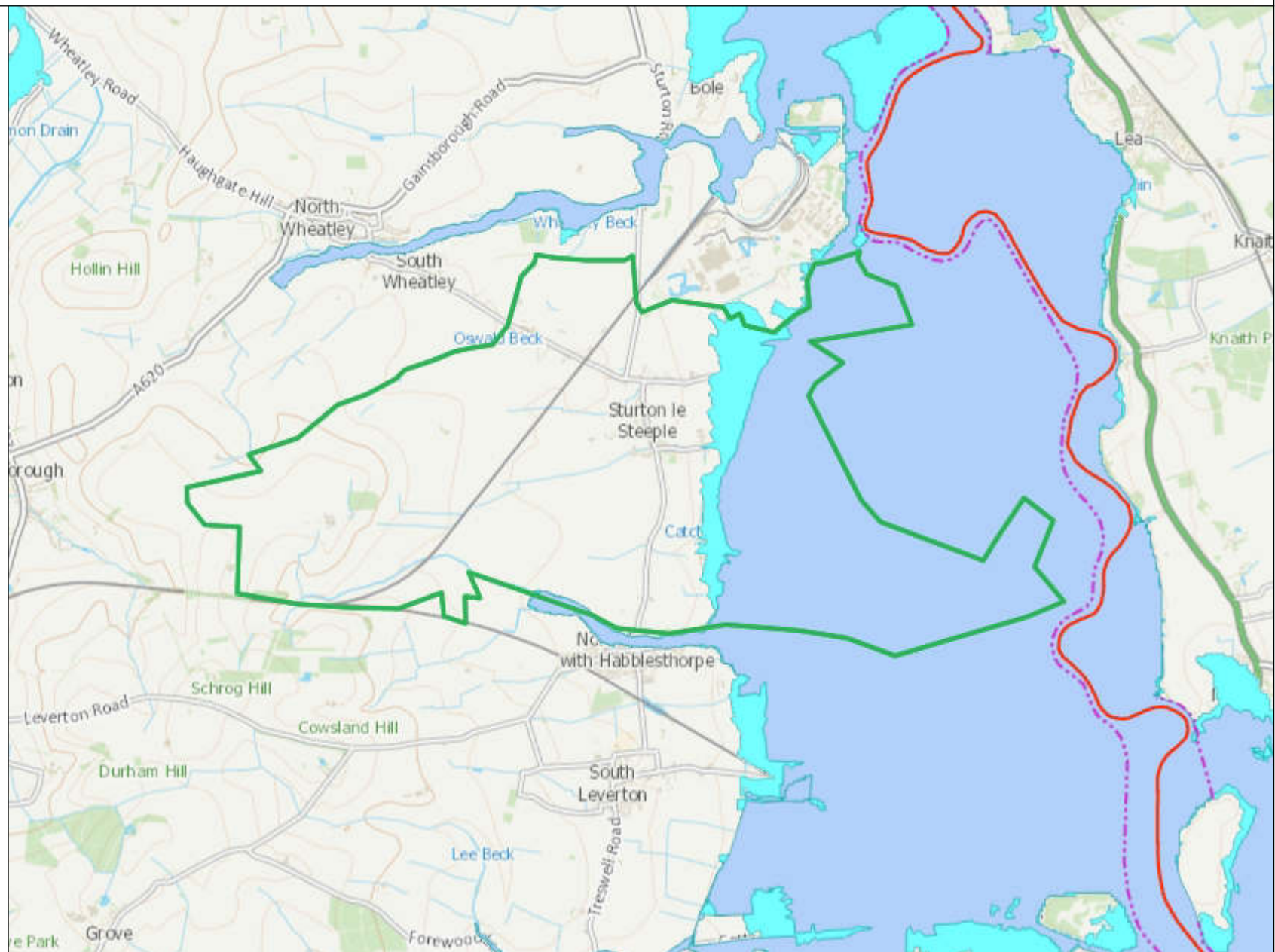
**Flood Risk Assessment Advisory:** All guidance on how to complete a full site specific Flood Risk Assessment (FRA) can be found here: [Flood risk and coastal change - GOV.UK \(www.gov.uk\)](https://www.gov.uk/government/topics/flood-risk-management). Furthermore professional assistance can be provided by our planning officers, by contacting [planning.trentside@environment-agency.gov.uk](mailto:planning.trentside@environment-agency.gov.uk).



# Detailed Flood Map, centred on Sturton le Steeple, Retford [EMD 323165]

## Legend

- Statutory Main Rivers
- - - Defences
- Flood Storage Areas
- Flood Zone 3
- Flood Zone 2



# Detailed River Network Map, centred on Sturton le Steeple, Retford [EMD 323165]

## Legend

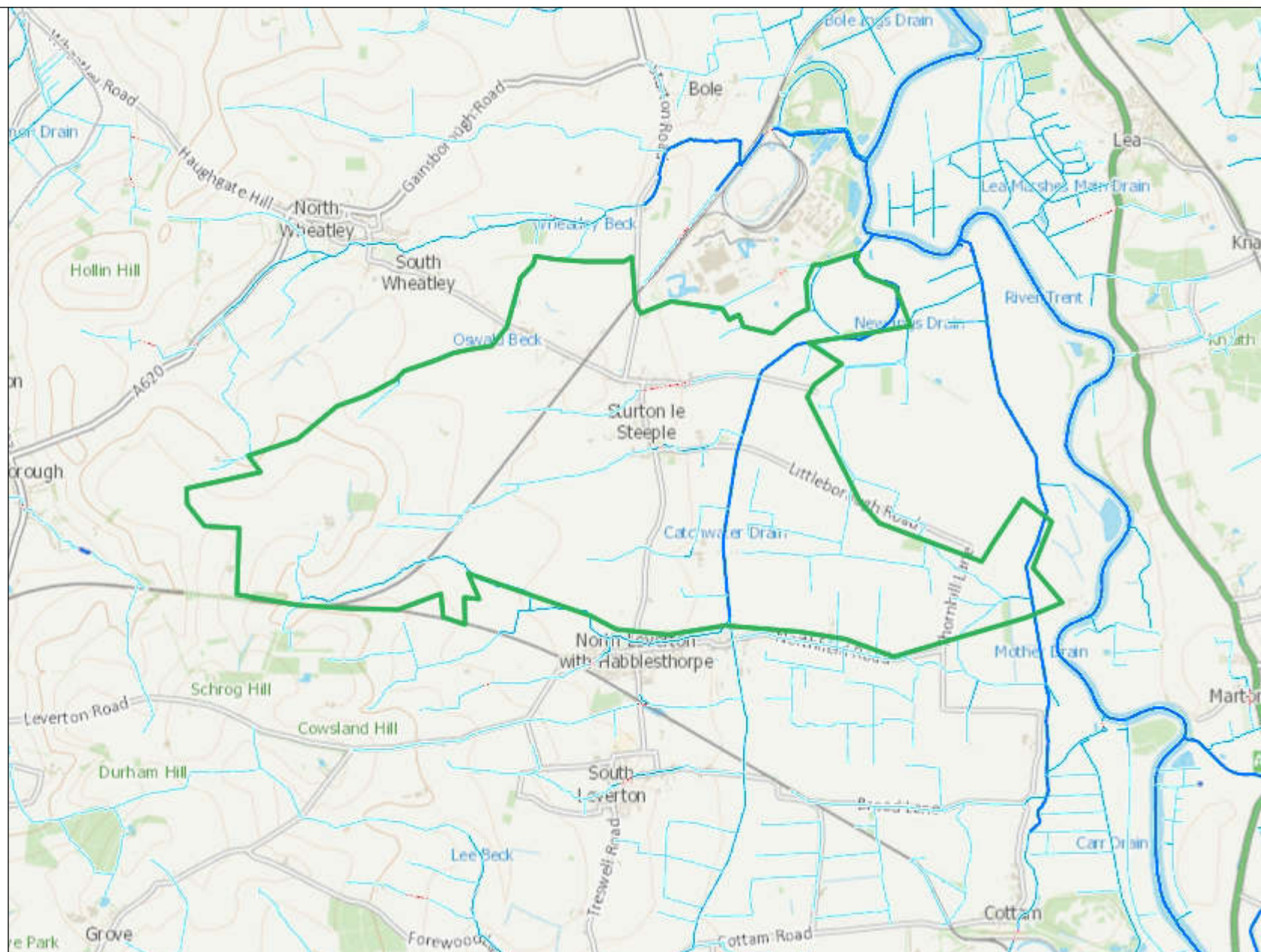
### Detailed River Network

- Primary River
- Secondary River
- Tertiary River
- Lake / Reservoir
- Canal
- Canal Tunnel
- Extended Culvert
- Multiple Channel Culvert
- Underground River (potential sewer)
- Underground River (inferred)
- Underground River (local knowledge)
- Undefined

### Offline Drainage features

### Detailed River Network

- Primary River
- Secondary River
- Tertiary River
- Lake / Reservoir
- Canal
- Canal Tunnel
- Extended Culvert
- Multiple Channel Culvert
- Underground River (potential sewer)
- Underground River (inferred)
- Underground River (local knowledge)
- Undefined



1: 50,000

0 1,250

Metres

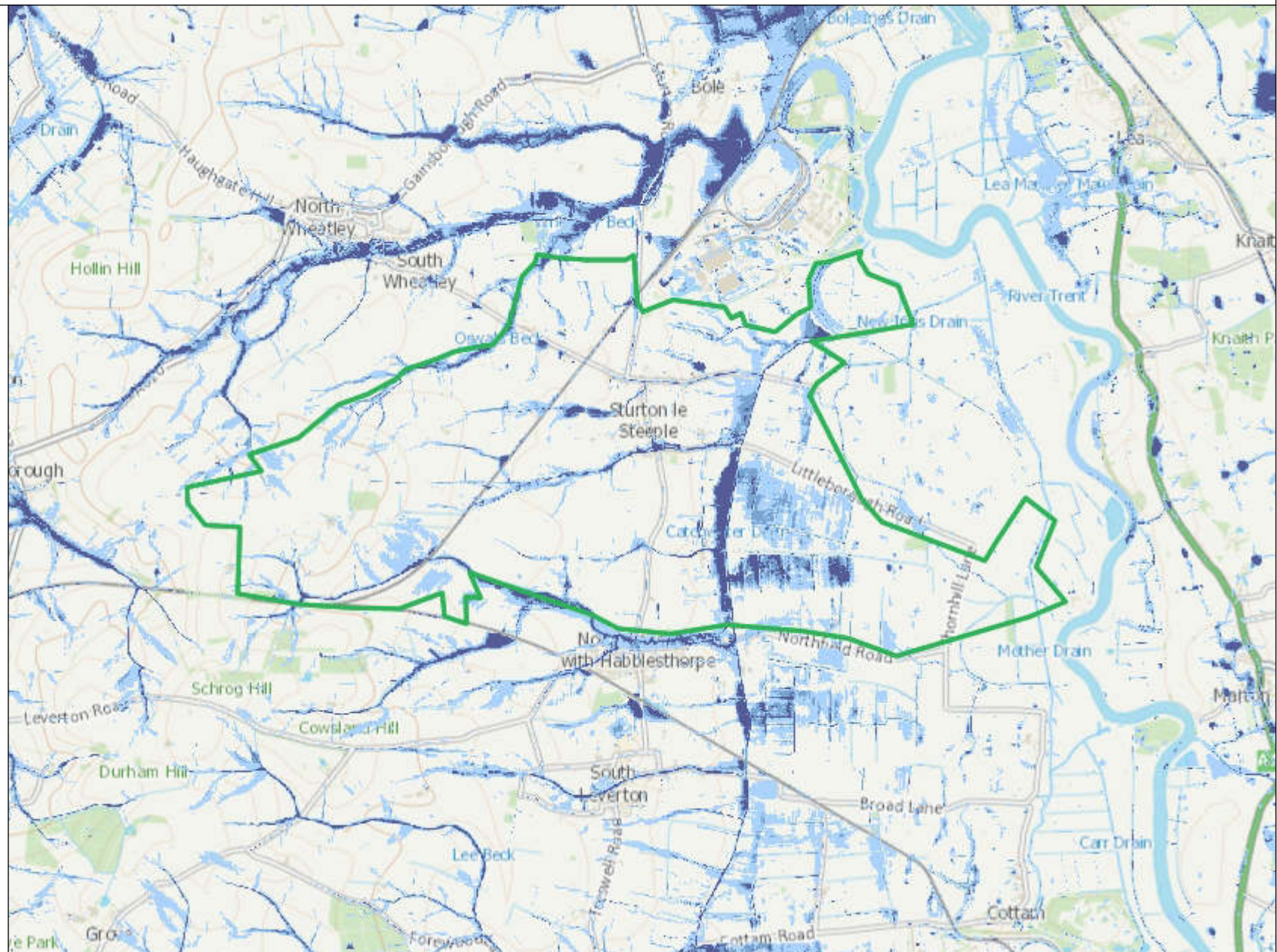




# Surface Water Map, centred on Sturton le Steeple, Retford [EMD 323165]

## Legend

- Flood Extent 1 in 30
- Flood Extent 1 in 100
- Flood Extent 1 in 1000





# Flood Defence Map centred on Sturton-Le-Steeple, Retford - Ref: [EMD323165]



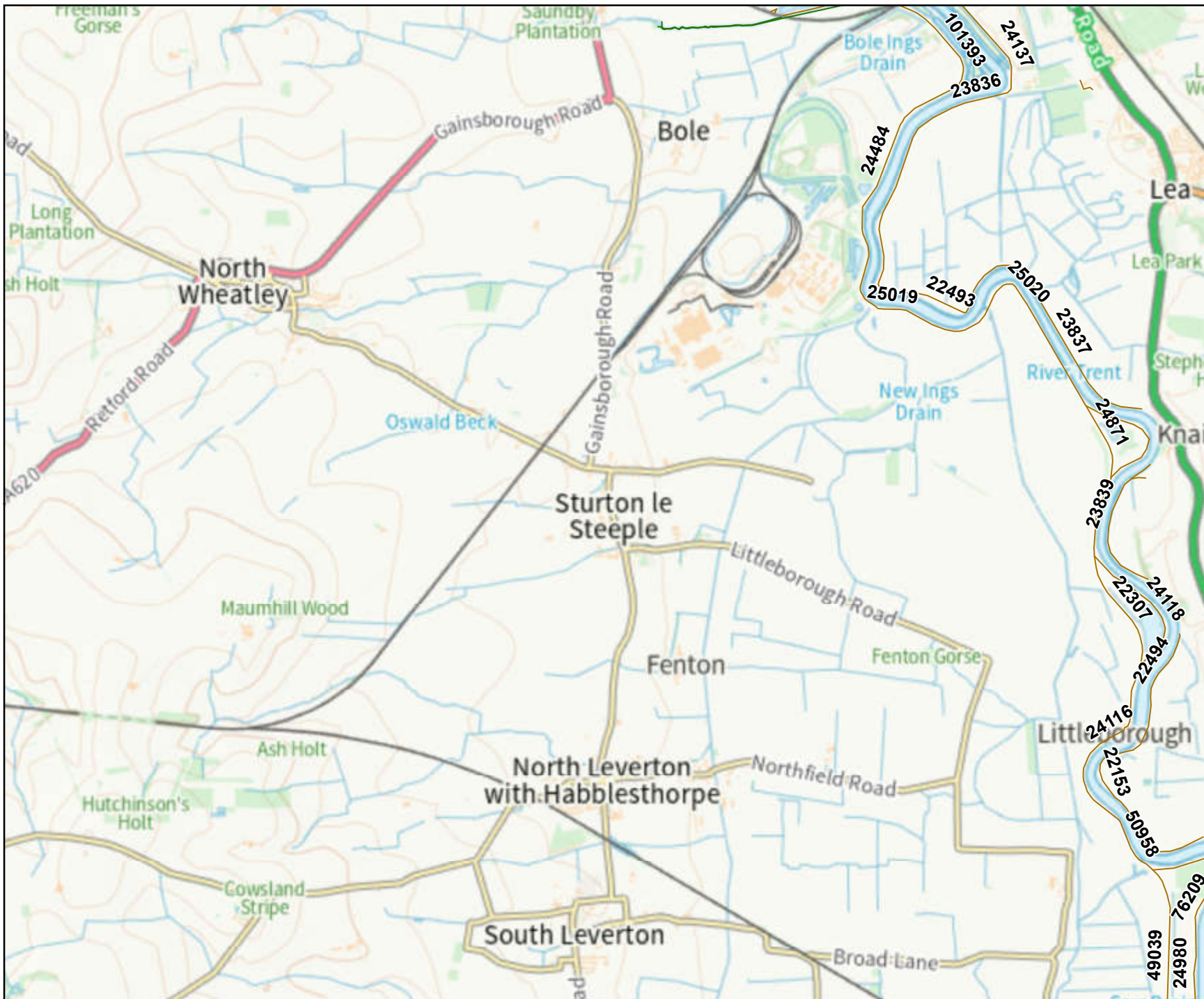
Scale 1:40,000  
Date created: 31 August 2023

## Legend

### EMD Defences - March 2023

#### ASSETTYPE

- Bridge Abutment
- Demountable Defence
- Embankment
- Engineered High Ground
- Flood Gate
- Natural High Ground
- Spillway
- Wall



# Modelled Nodes Map centred on Sturton-Le-Steeple, Retford - Ref: [EMD323165]



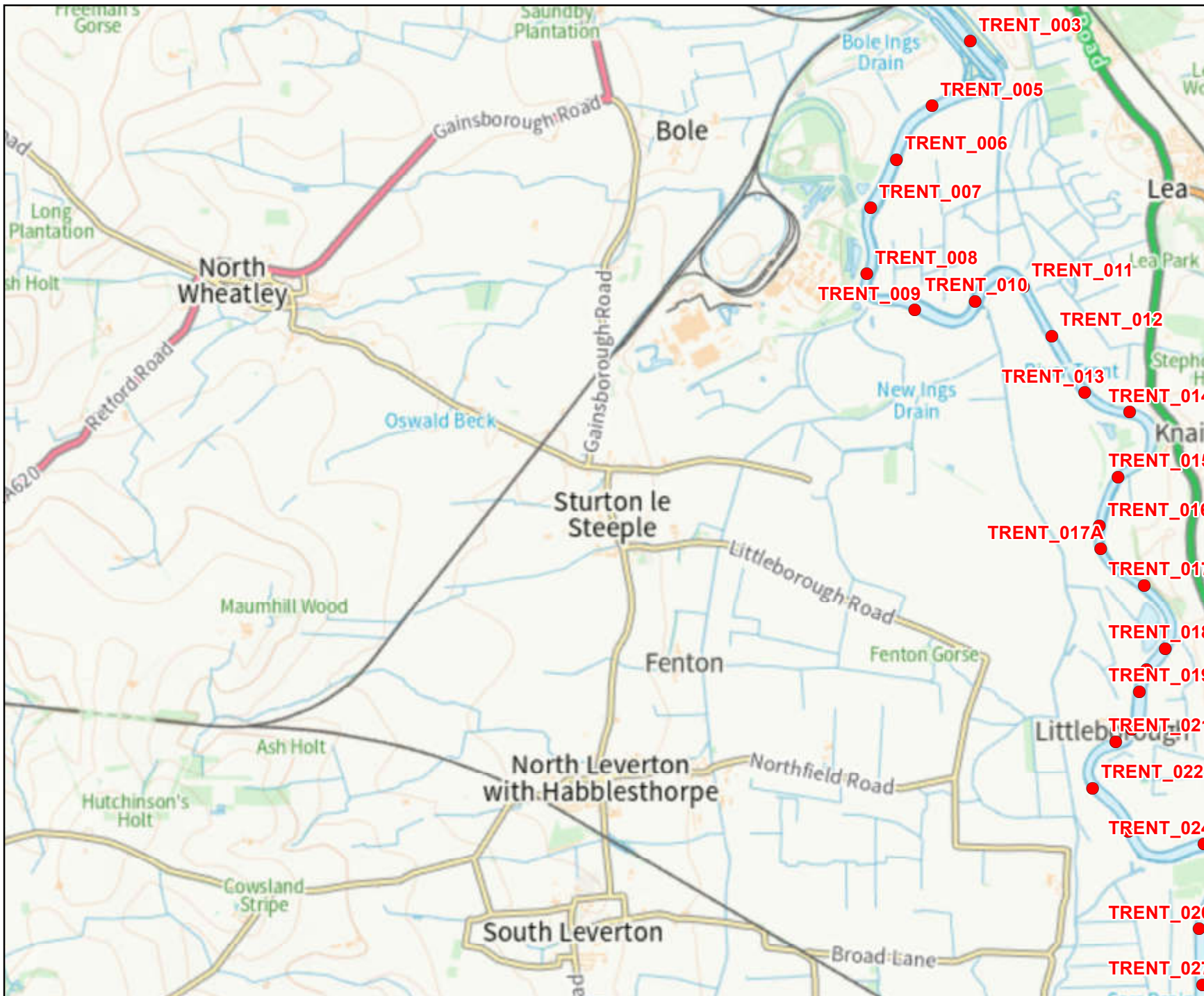
Scale 1:40,000  
Date created: 31 August 2023

## Legend

● Modelled\_Nodes\_Tidal\_Trent\_2023

**SOURCE:**  
Tidal Trent,  
Jacobs, 2023

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# Modelled Flood Extents Map [Fluvial Dominated] centred on Sturton-Le-Steeple, Retford - Ref: [EMD323165]



Scale 1:40,000

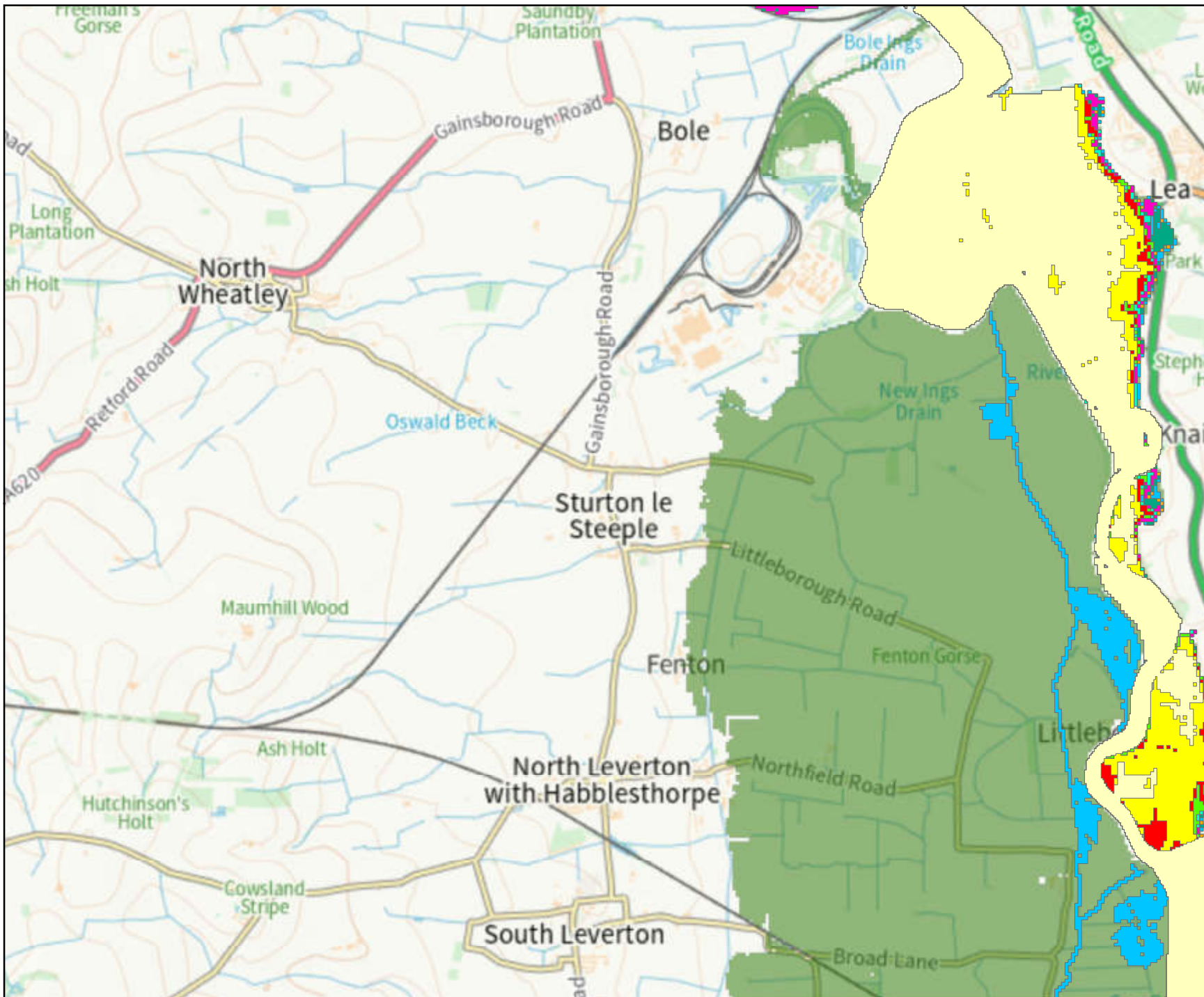
Date created: 31 August 2023

## Modelled Flood Extents

-  1 in 2 year extent
-  1 in 5 year extent
-  1 in 10 year extent
-  1 in 20 year extent
-  1 in 30 year extent
-  1 in 50 year extent
-  1 in 75 year extent
-  1 in 100 year extent
-  1 in 200 year extent
-  1 in 1000 year extent

**SOURCE:**  
Tidal Trent,  
Jacobs, 2023

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# Floodplain Heights Map [Fluvial Dominated] -part 1

## centred on Sturtle-Le-Steeple, Retford - Ref: [EMD323165]

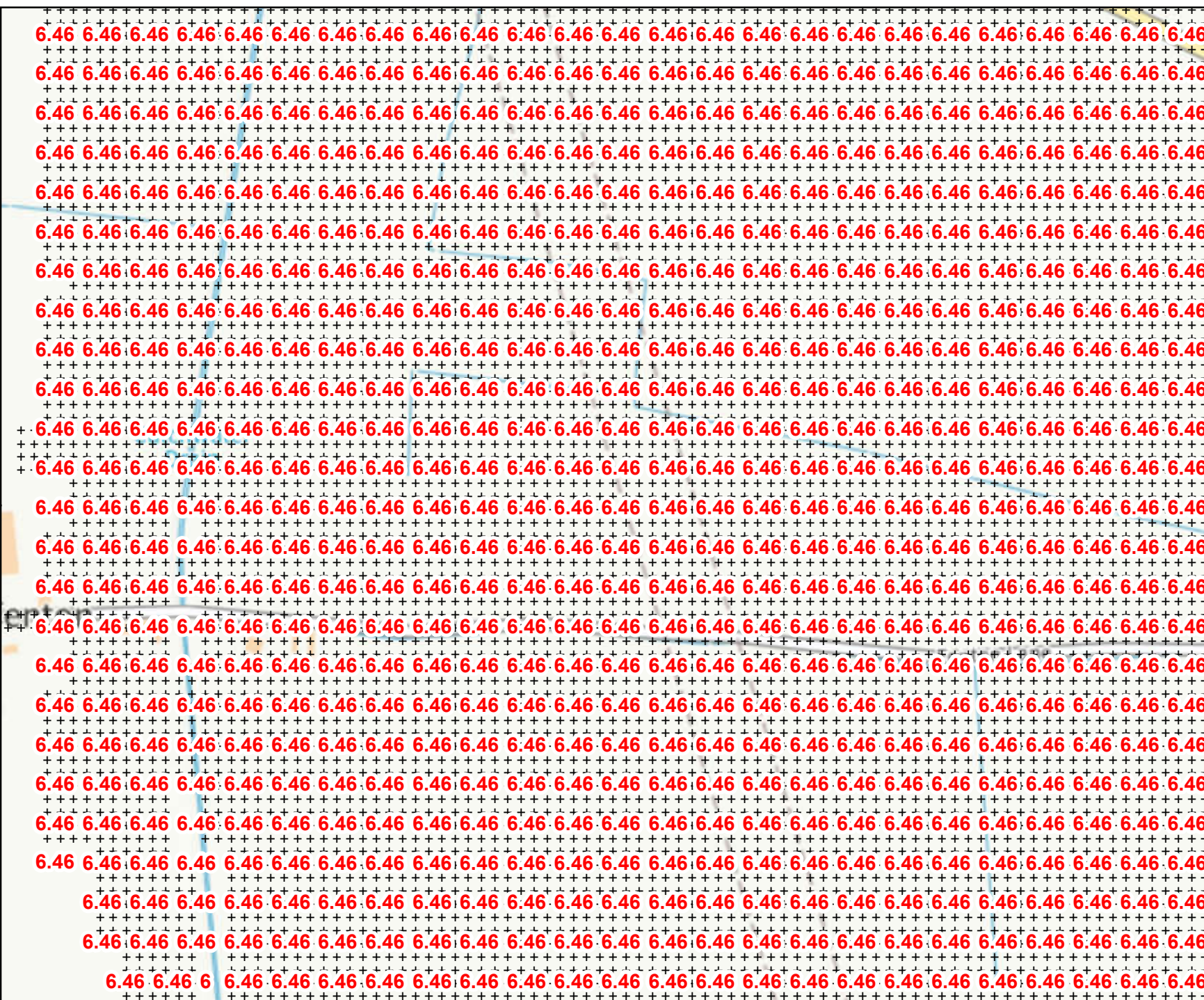


Scale 1:5,000

Date created: 31 August 2023

### Legend

+ 1 in 1000 year height (mAOD)



**SOURCE:**  
Tidal Trent,  
Jacobs, 2023

# Floodplain Heights Map [Fluvial Dominated]- part 2

## centred on Sturtle-Le-Steeple, Retford - Ref: [EMD323165]



Scale 1:5,000

Date created: 31 August 2023

### Legend

+ 1 in 1000 year height (mAOD)

### SOURCE:

Tidal Trent,  
Jacobs, 2023



# Floodplain Heights Map [Fluvial Dominated]-part 3 centred on Sturtle-Le-Steeple, Retford - Ref: [EMD323165]



Scale 1:5,000

Date created: 31 August 2023

## Legend

+ 1 in 1000 year height (mAOD)

**SOURCE:**  
Tidal Trent,  
Jacobs, 2023

# Floodplain Heights Map [Fluvial Dominated]-part 4 centred on Sturtle-Le-Steeple, Retford - Ref: [EMD323165]



Scale 1:5,000

Date created: 31 August 2023

## Legend

+ 1 in 1000 year height (mAOD)

**SOURCE:**  
Tidal Trent,  
Jacobs, 2023

# Floodplain Heights Map [Fluvial Dominated]-part 5 centred on Sturtle-Le-Steeple, Retford - Ref: [EMD323165]



Scale 1:5,000

Date created: 31 August 2023

## Legend

+ 1 in 1000 year height (mAOD)

**SOURCE:**  
Tidal Trent,  
Jacobs, 2023



# Floodplain Heights Map [Fluvial Dominated]-part 6 centred on Sturtle-Le-Steeple, Retford - Ref: [EMD323165]



Scale 1:5,000

Date created: 31 August 2023

## Legend

+ 1 in 1000 year height (mAOD)

**SOURCE:**  
Tidal Trent,  
Jacobs, 2023

# Modelled Flood Extents Map [Fluvial Dominated] centred on Sturton-Le-Steeple, Retford - Ref: [EMD323165]

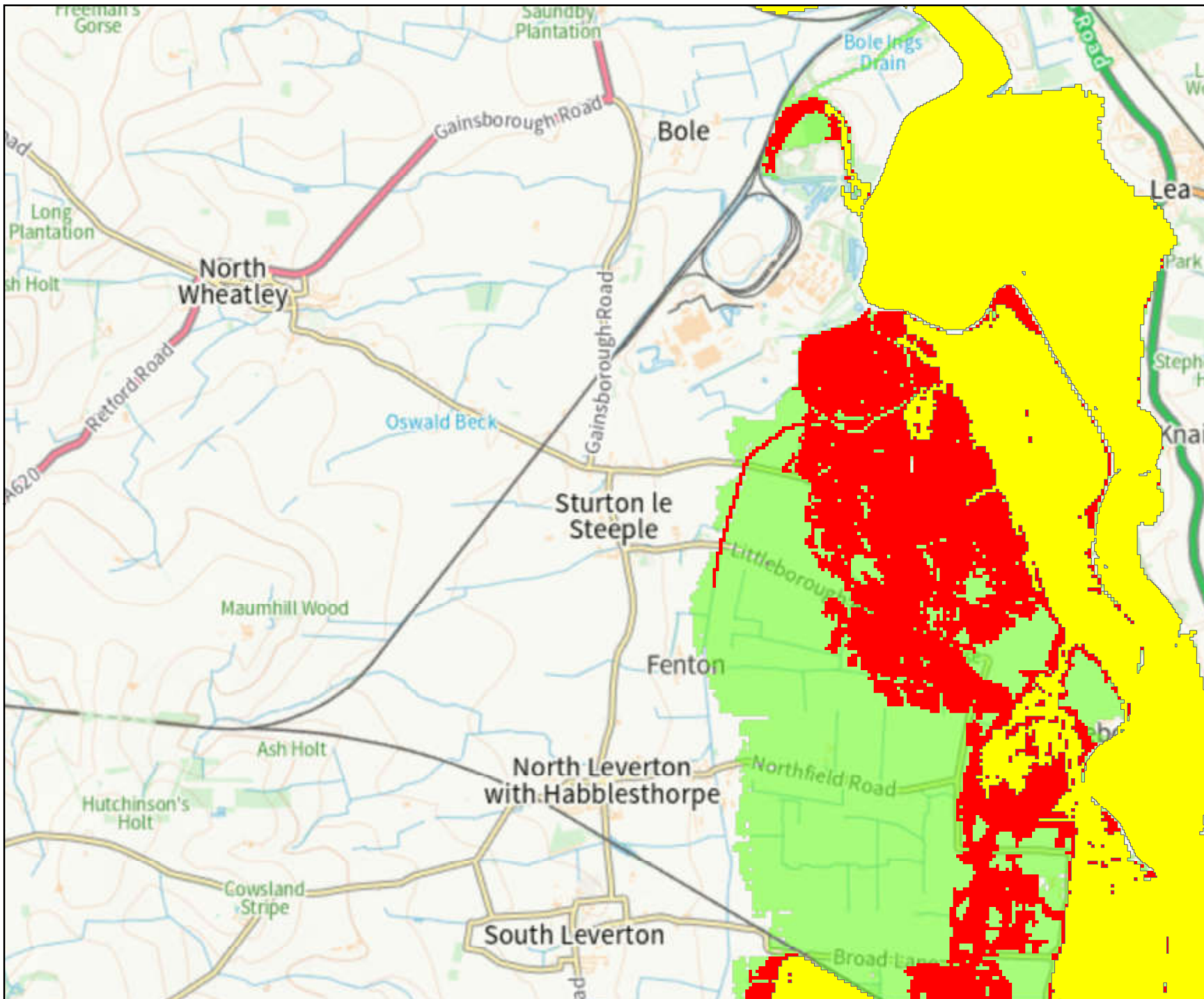


Scale 1:40,000  
Date created: 31 August 2023

## Legend

- 1 in 100 year +29%CC extent
- 1 in 100 year +39%CC extent
- 1 in 100 year +62%CC extent

**SOURCE:**  
Tidal Trent,  
Jacobs, 2023





# Floodplain Heights Map [Fluvial Dominated]-part 1 centred on Sturtle-Le-Steeple, Retford - Ref: [EMD323165]



Scale 1:7,000

Date created: 31 August 2023

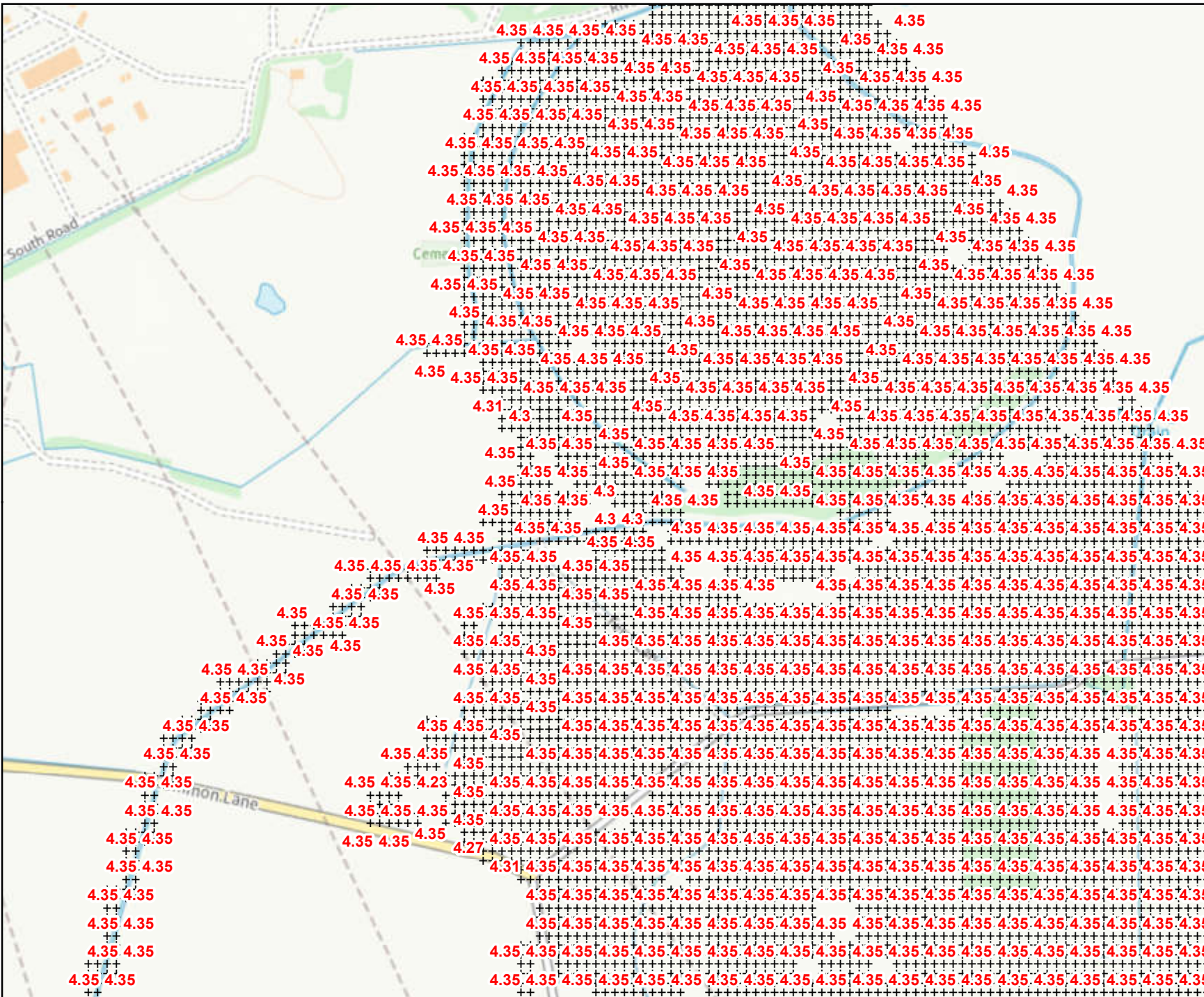
## Legend

+ 1 in 100 year +39%CC height (mAOD)

## SOURCE:

Tidal Trent,  
Jacobs, 2023

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# Floodplain Heights Map [Fluvial Dominated]-part 2 centred on Sturtle-Le-Steeple, Retford - Ref: [EMD323165]

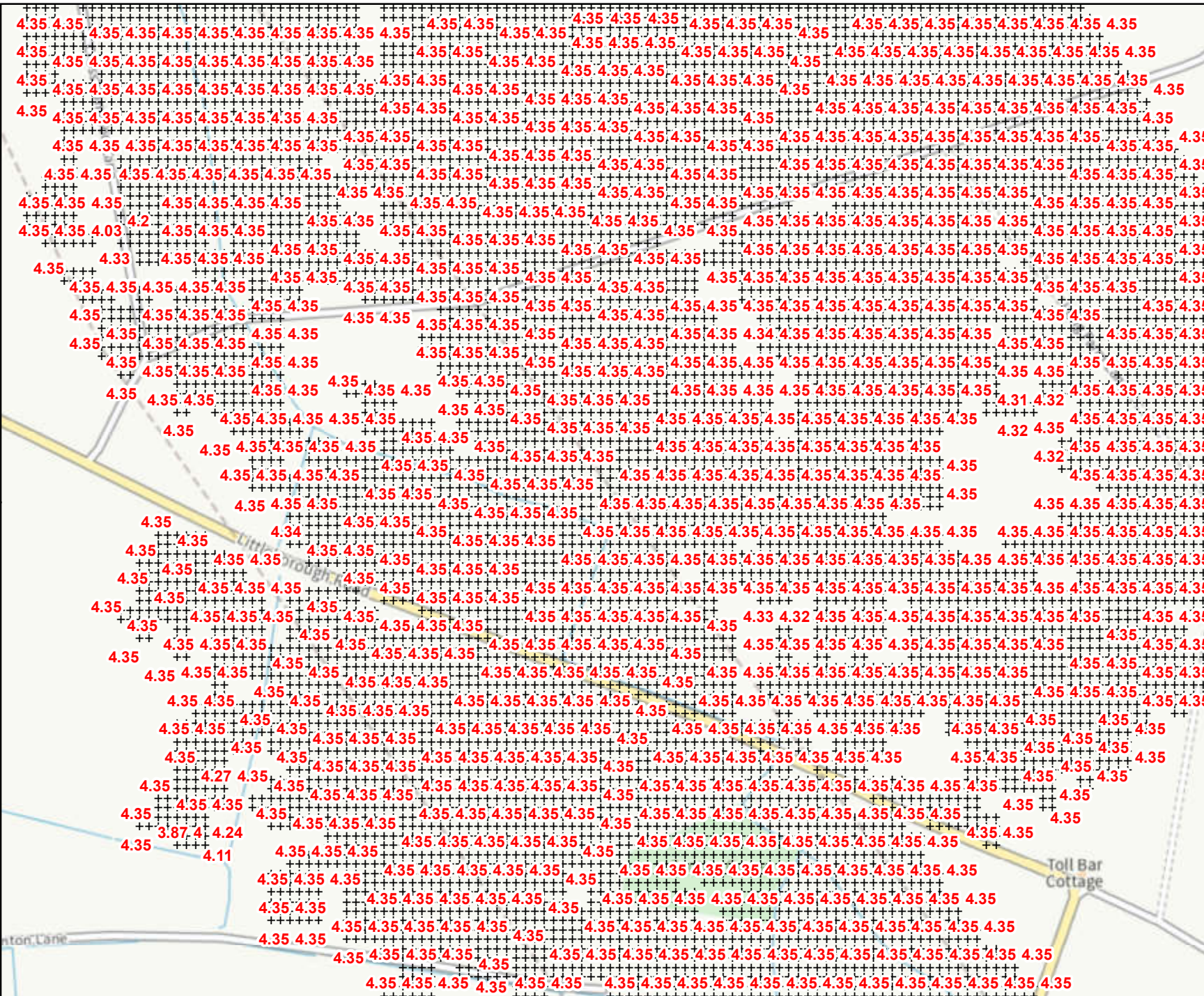


Scale 1:7,000

Date created: 31 August 2023

## Legend

+ 1 in 100 year +39%CC height (mAOD)



# Floodplain Heights Map [Fluvial Dominated]-part 3 centred on Sturtle-Le-Steeple, Retford - Ref: [EMD323165]



Scale 1:7,000

Date created: 31 August 2023

## Legend

+ 1 in 100 year +39%CC height (mAOD)

**SOURCE:**  
Tidal Trent,  
Jacobs, 2023

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# Modelled Flood Extents Map [Tidal Dominated] centred on Sturton-Le-Steeple, Retford - Ref: [EMD323165]



Scale 1:40,000

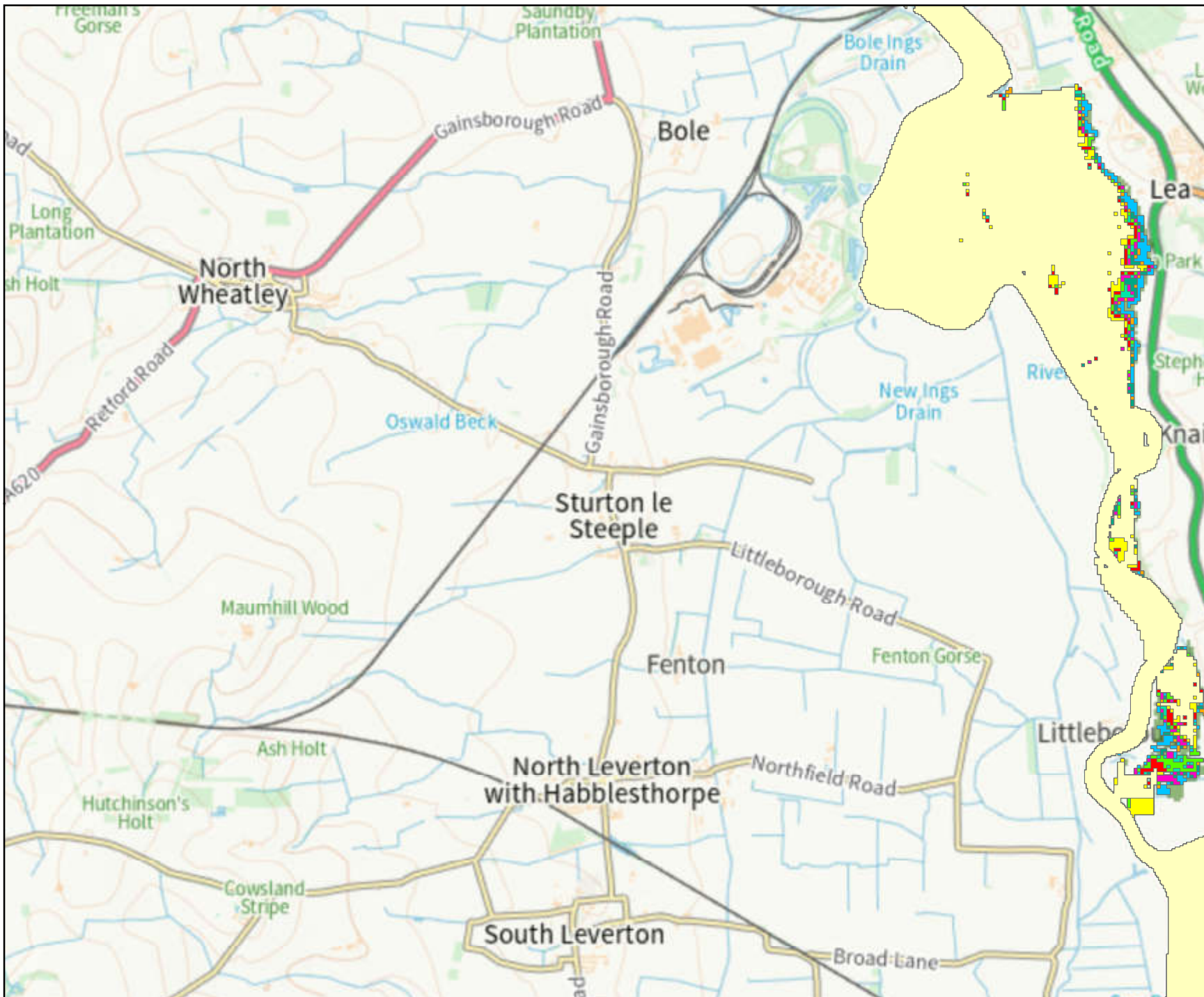
Date created: 31 August 2023

## Modelled Flood Extents

|  |                       |
|--|-----------------------|
|  | 1 in 2 year extent    |
|  | 1 in 5 year extent    |
|  | 1 in 10 year extent   |
|  | 1 in 20 year extent   |
|  | 1 in 30 year extent   |
|  | 1 in 50 year extent   |
|  | 1 in 75 year extent   |
|  | 1 in 100 year extent  |
|  | 1 in 200 year extent  |
|  | 1 in 1000 year extent |

**SOURCE:**  
Tidal Trent,  
Jacobs, 2023

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**Modelled Flood Extents Map [Tidal Dominated]  
centred on Sturton-Le-Steeple, Retford - Ref: [EMD323165]**



**Scale** 1:40,000

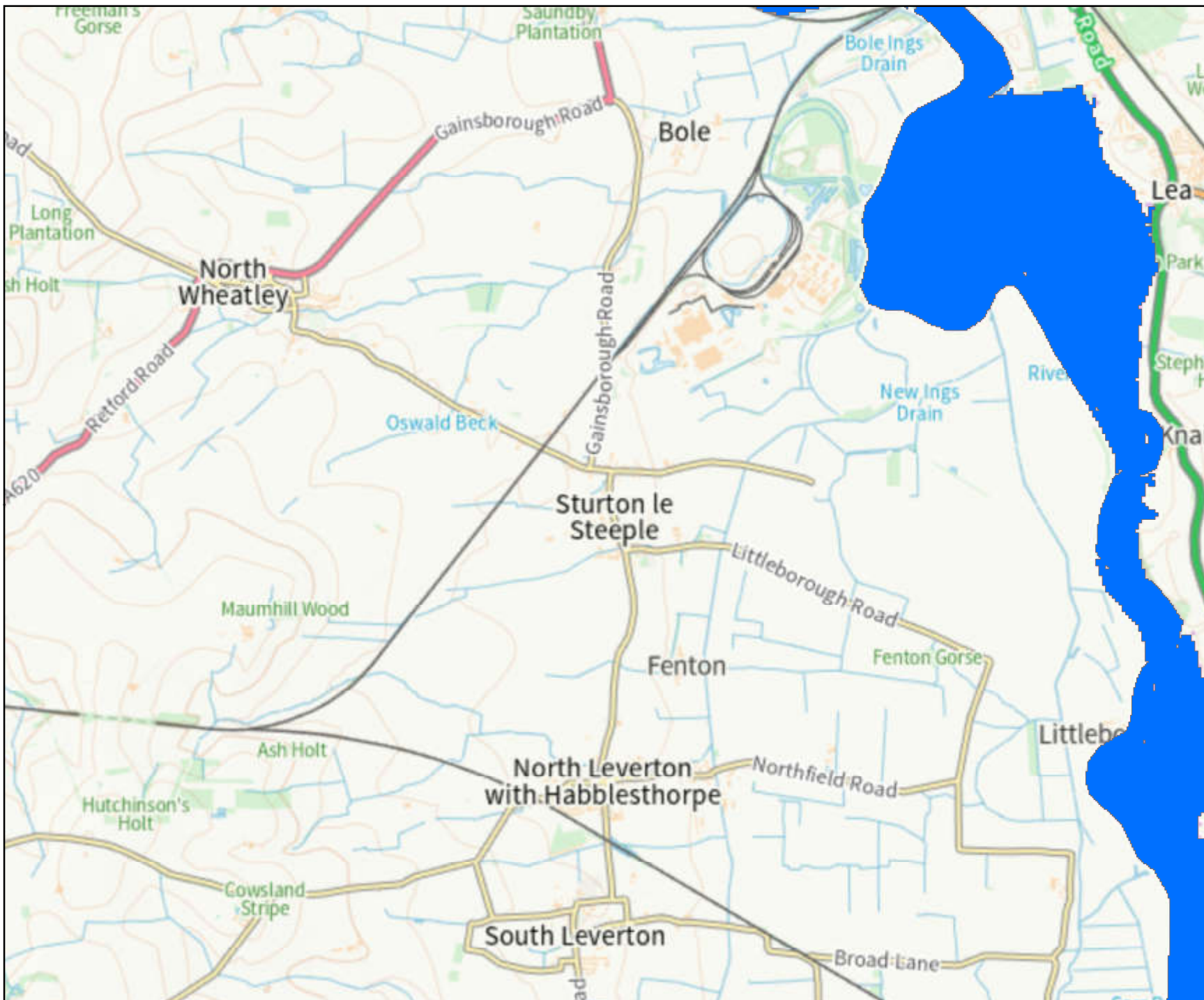
**Date created:** 31 August 2023

**Legend**

-  1 in 100 year + higher central CC extent
-  1 in 100 year + upper CC extent

**SOURCE:**  
**Tidal Trent,**  
**Jacobs, 2023**

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# Floodplain Heights Map- part 1

## centred on Sturton le Steeple, Retford [EMD 369744]

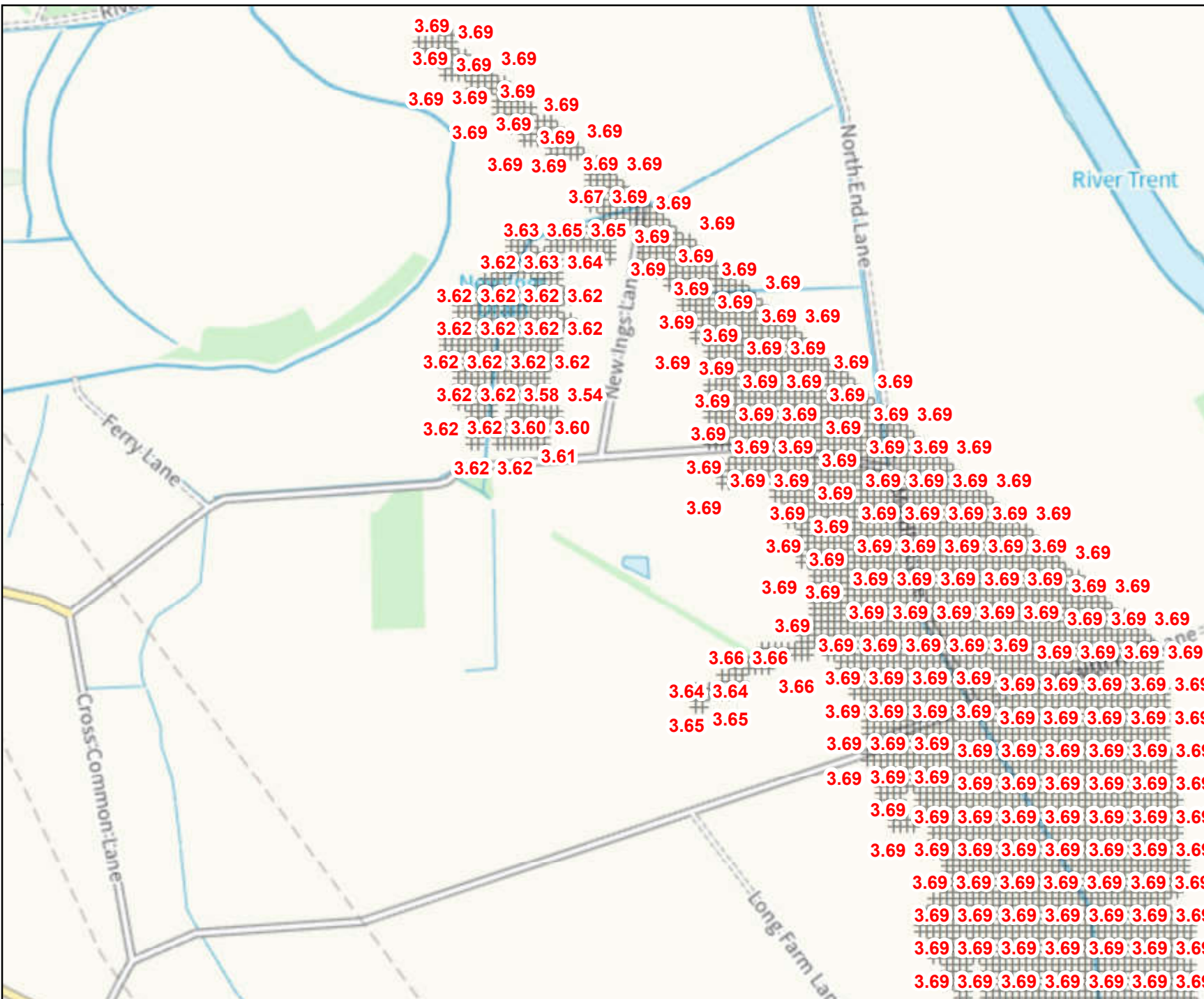


Scale 1:10,000

Date created: 20 August 2024

### Legend

+ 1 in 100yr +C (29%) CC Height (mAOD)



**SOURCE:**  
Tidal Trent, Jacobs, 2023



# Floodplain Heights Map- part 2

## centred on Sturton le Steeple, Retford [EMD 369744]

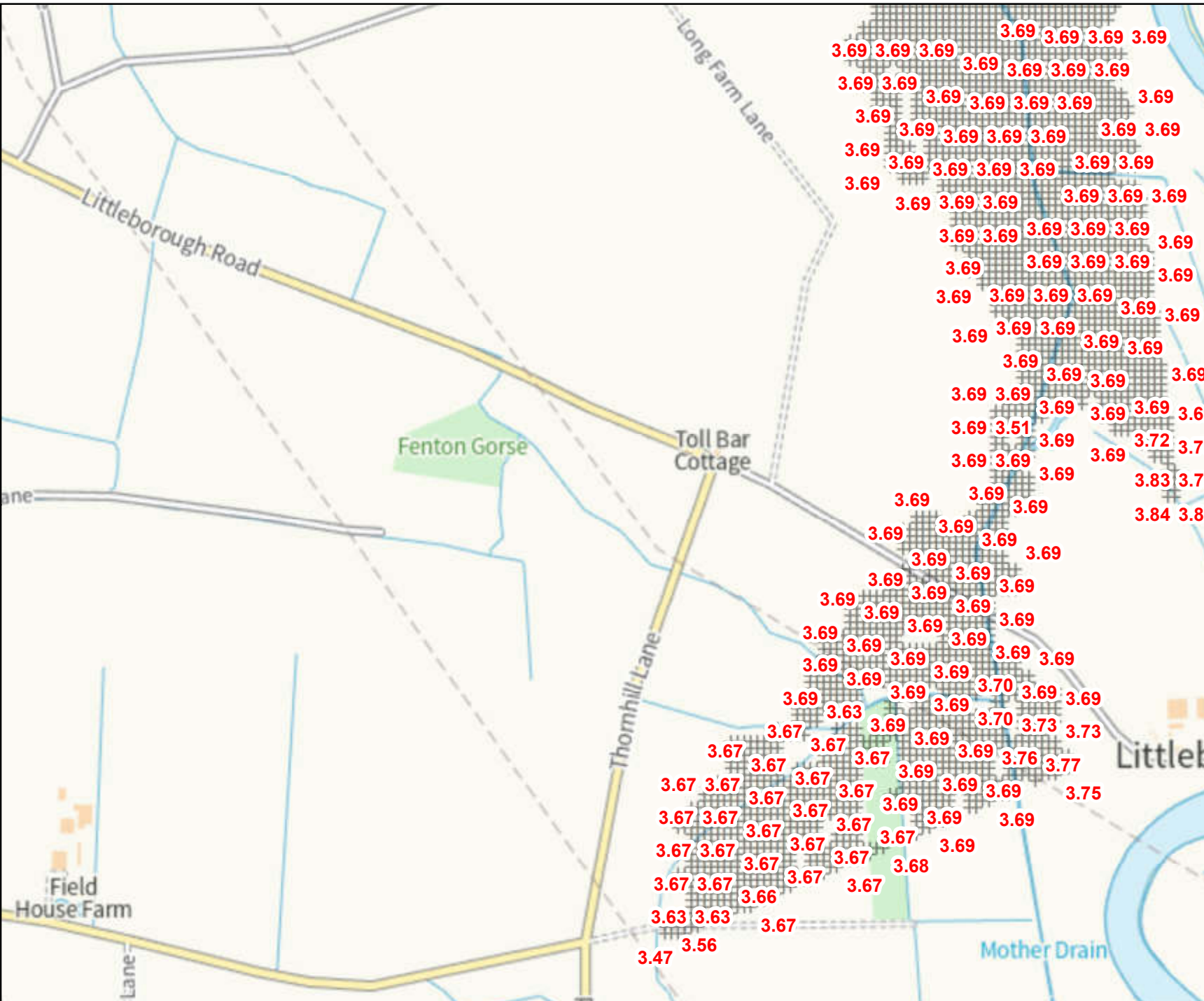


Scale 1:10,000

Date created: 20 August 2024

### Legend

+ 1 in 100yr +C (29%) CC Height (mAOD)



### SOURCE:

Tidal Trent, Jacobs, 2023



# Floodplain Heights Breach Map-Part 2

## centred on Sturton le Steeple, Retford [EMD 369744]



Scale 1:10,000

Date created: 20 August 2024

### Legend

+ TidalTrent\_combined\_height

### SOURCE:

Tidal Trent, Jacobs, 2023



# Floodplain Heights Breach Map-Part 3 centred on Sturton le Steeple, Retford [EMD 369744]

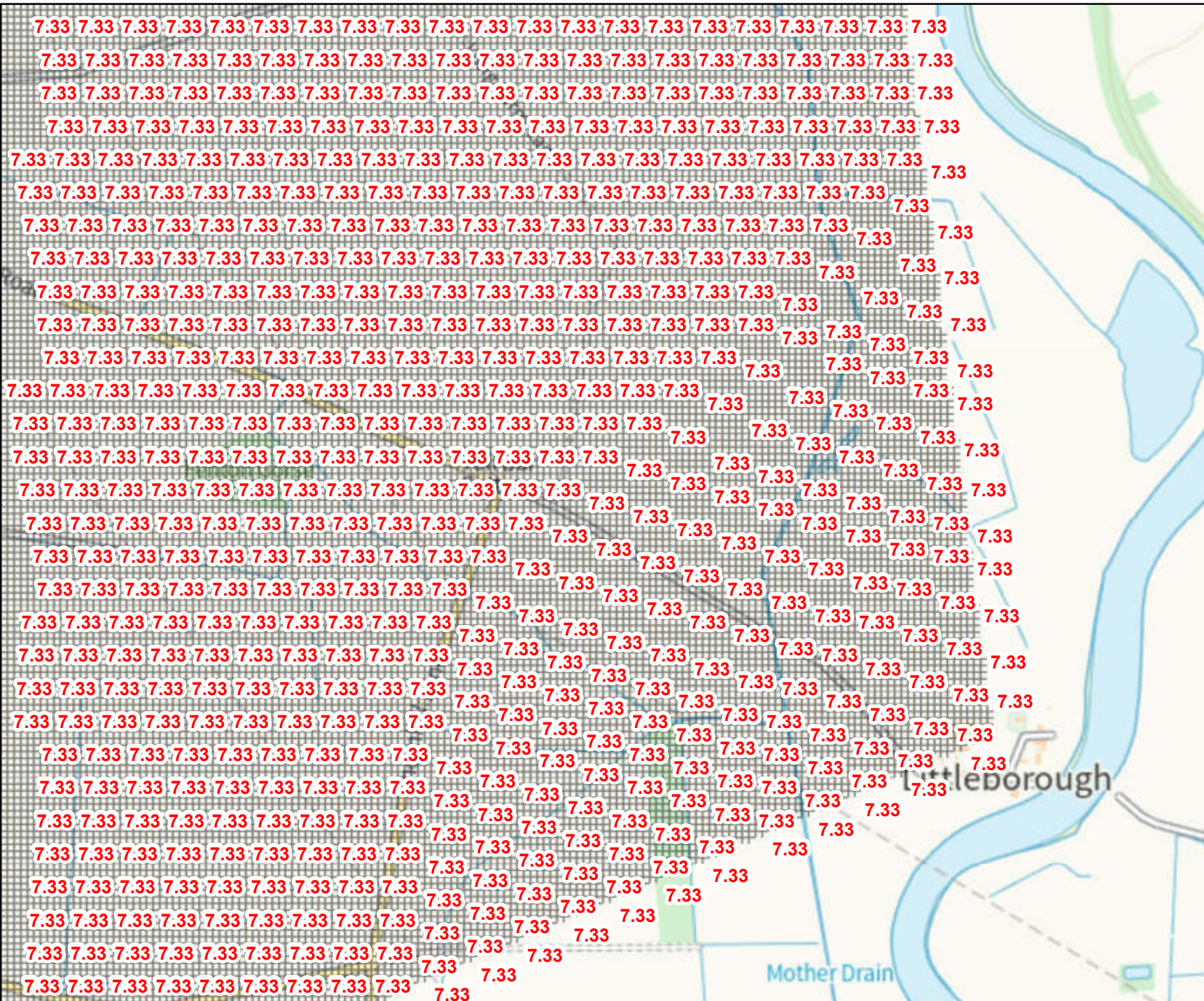


Scale 1:10,000

Date created: 20 August 2024

## Legend

+ TidalTrent\_combined\_height



## SOURCE:

Tidal Trent, Jacobs, 2023



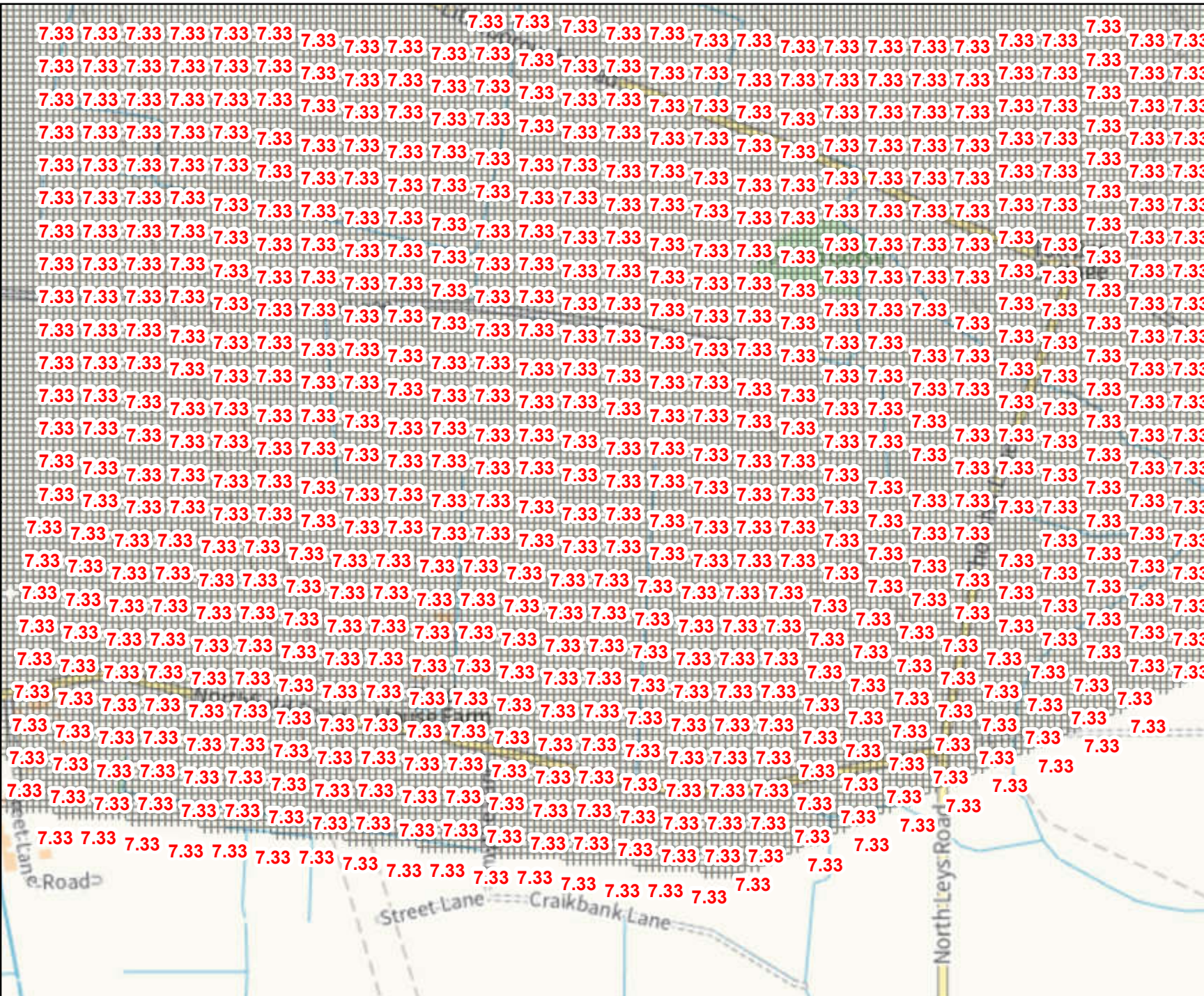
# Floodplain Heights Breach Map-Part 4 centred on Sturton le Steeple, Retford [EMD 369744]



Scale 1:10,000  
Date created: 20 August 2024

## Legend

+ TidalTrent\_combined\_height



**SOURCE:**  
Tidal Trent, Jacobs, 2023





## Modelled Flood Extents Map (Undefended, fluvial dominated)



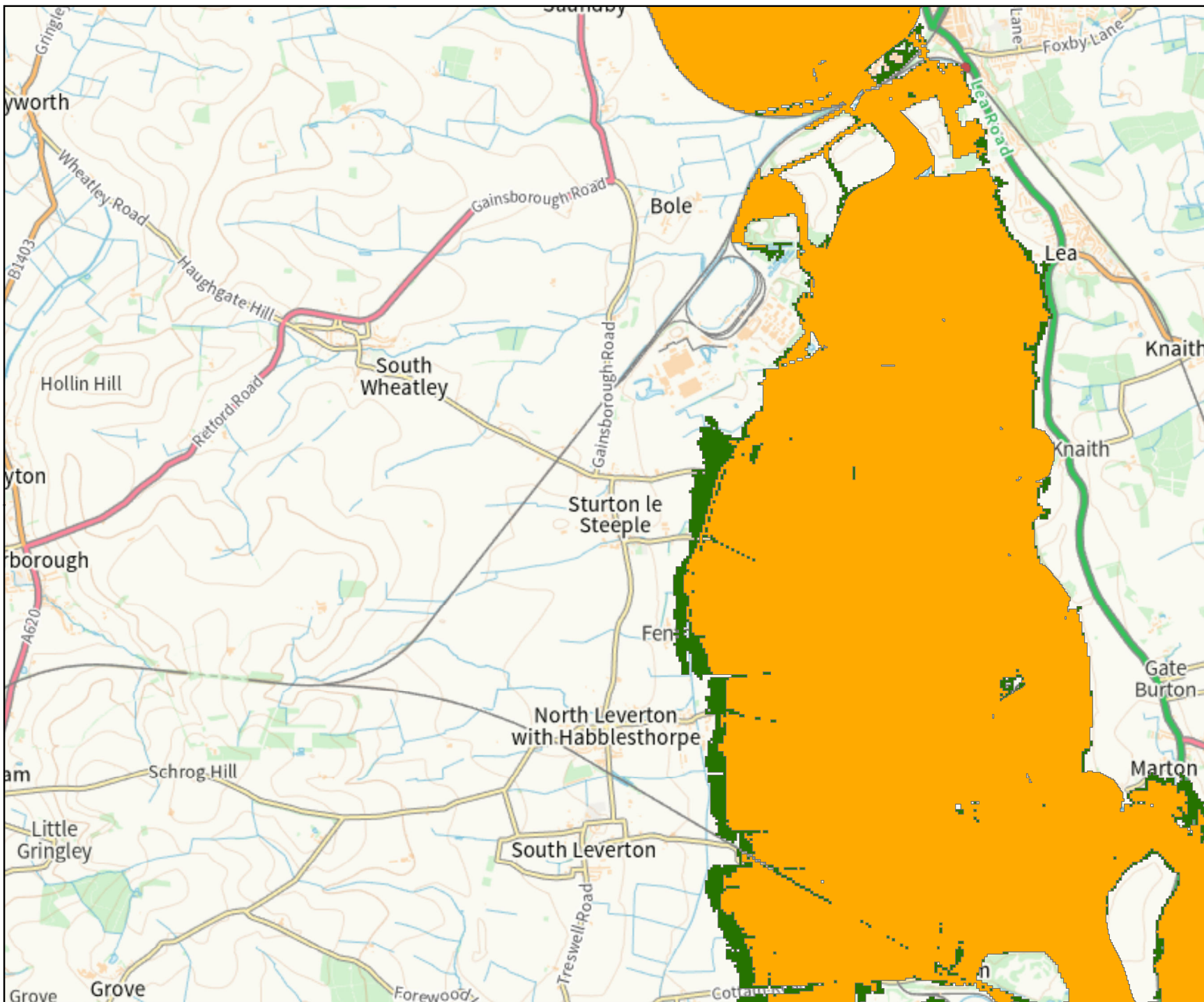
**Scale** 1:50,000  
Date created: 26 November 2024

### Legend

- 1 in 100yr extent
- 1 in 1000yr extent

**SOURCE:**  
Tidal Trent, Jacobs, 2023

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## Modelled Flood Extents Map (Undefined, tidal dominated)



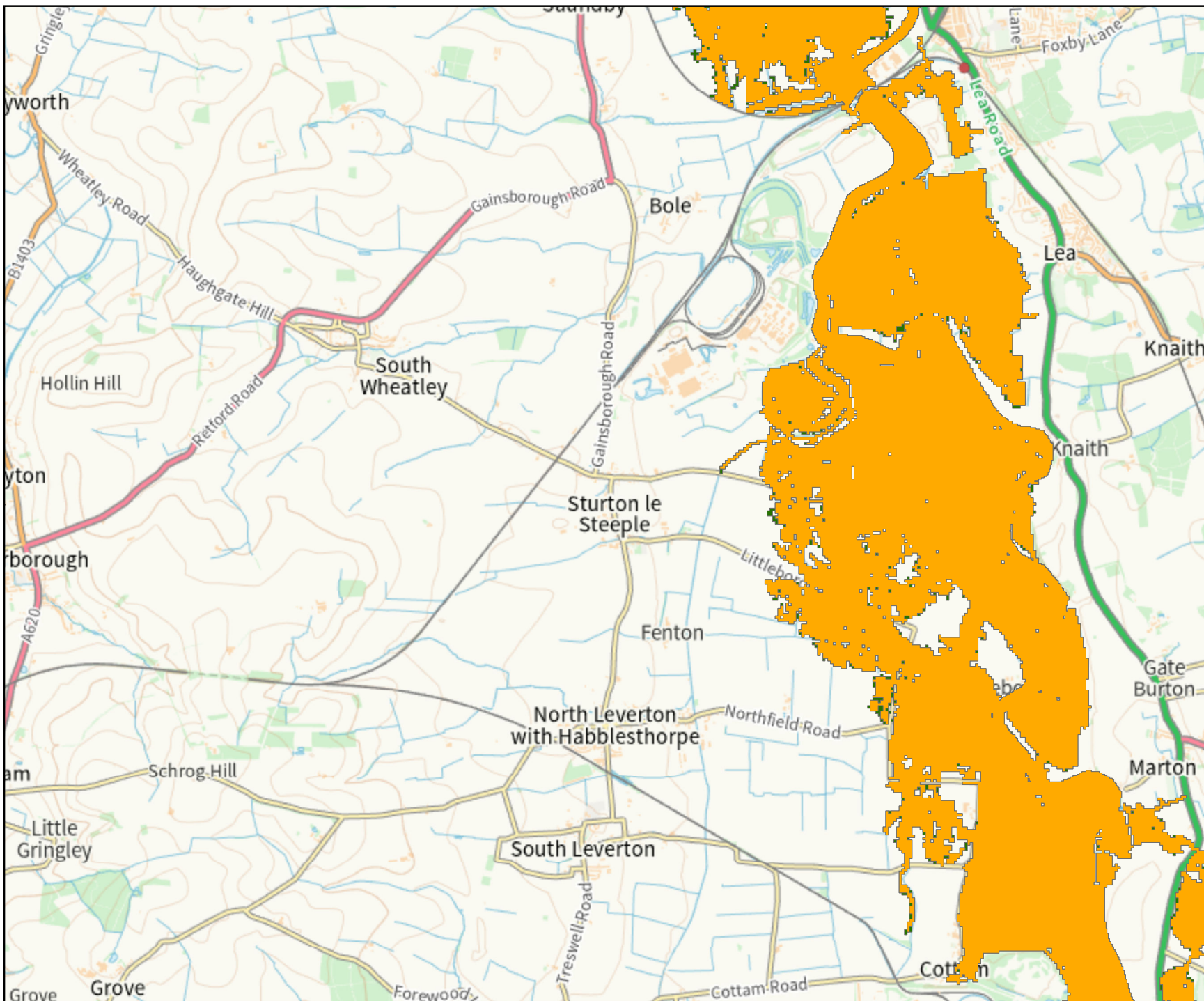
Scale 1:50,000  
Date created: 26 November 2024

### Legend

- 1 in 200yr extent
- 1 in 1000yr extent

**SOURCE:**  
Tidal Trent, Jacobs, 2023

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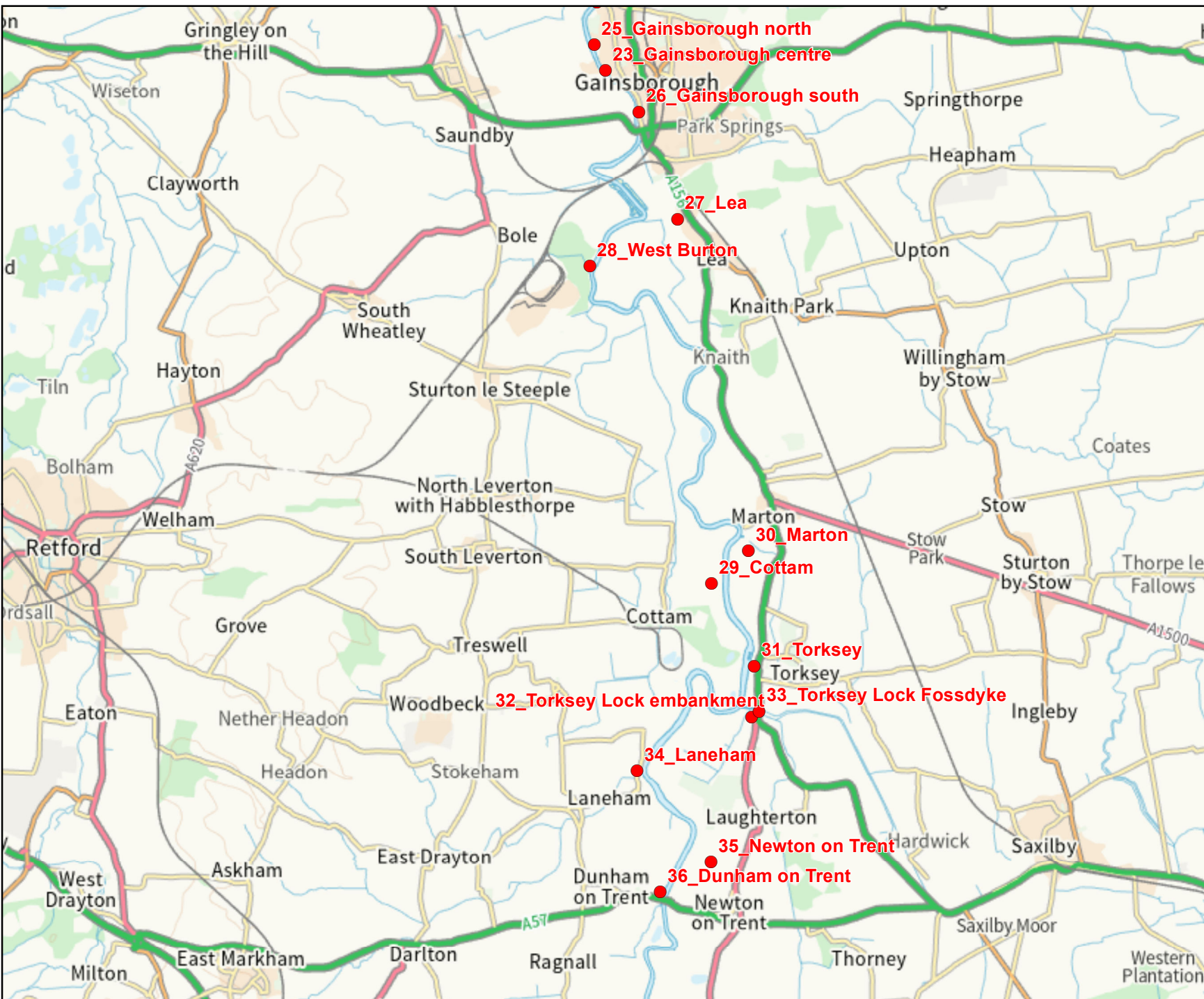
## Breach locations



Scale 1:100,000  
Date created: 27 November 2024

### Legend

● Breach Locations June 2022



**SOURCE:**  
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2023



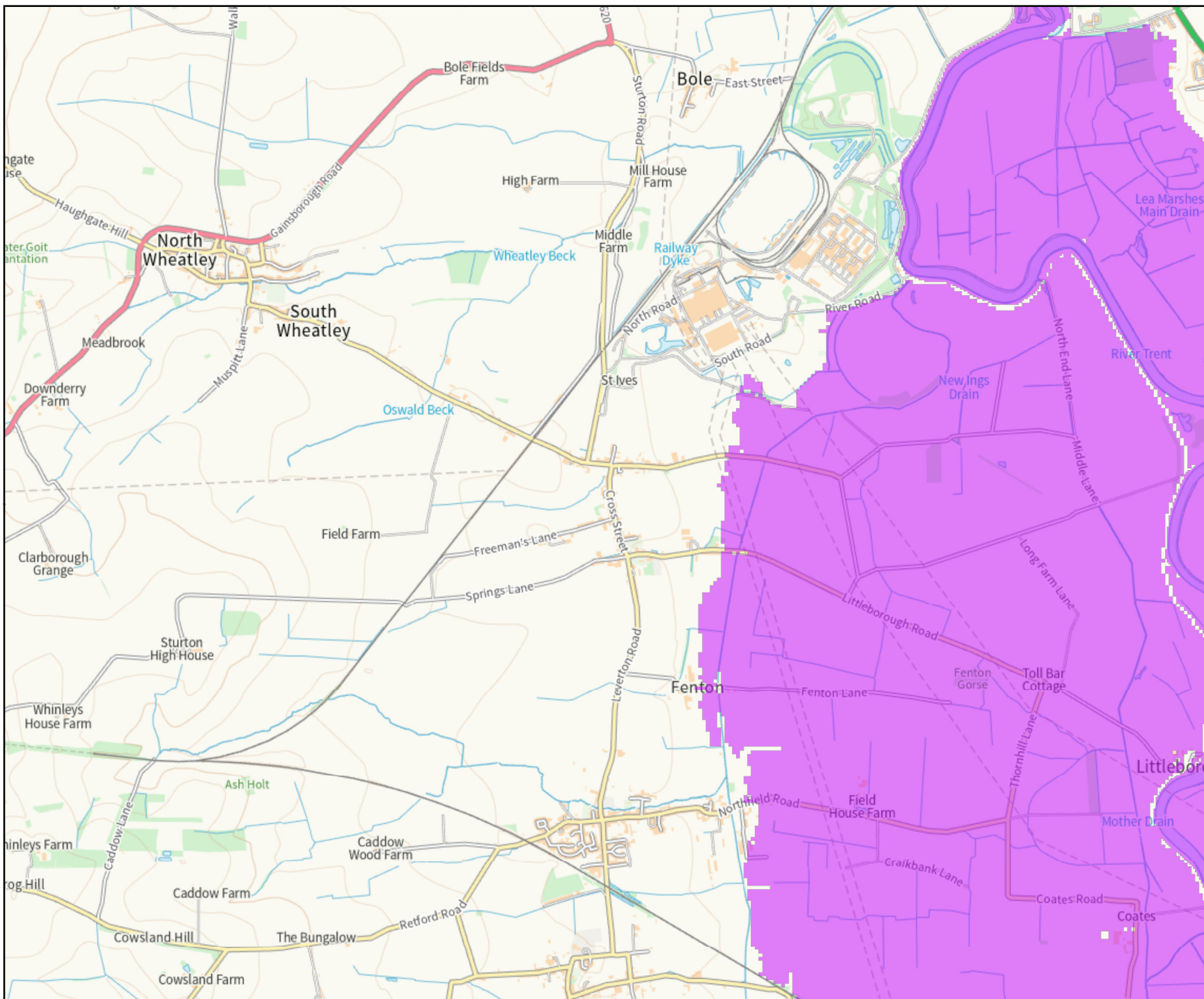
# Modelled Flood Breach Extents Map (Breach 36)



**Scale** 1:35,000  
**Date created:** 27 November 2024

## Legend

1 in 100yr +29%CC breach extent



**SOURCE:**  
**Tidal Trent, Jacobs,**  
**2023**

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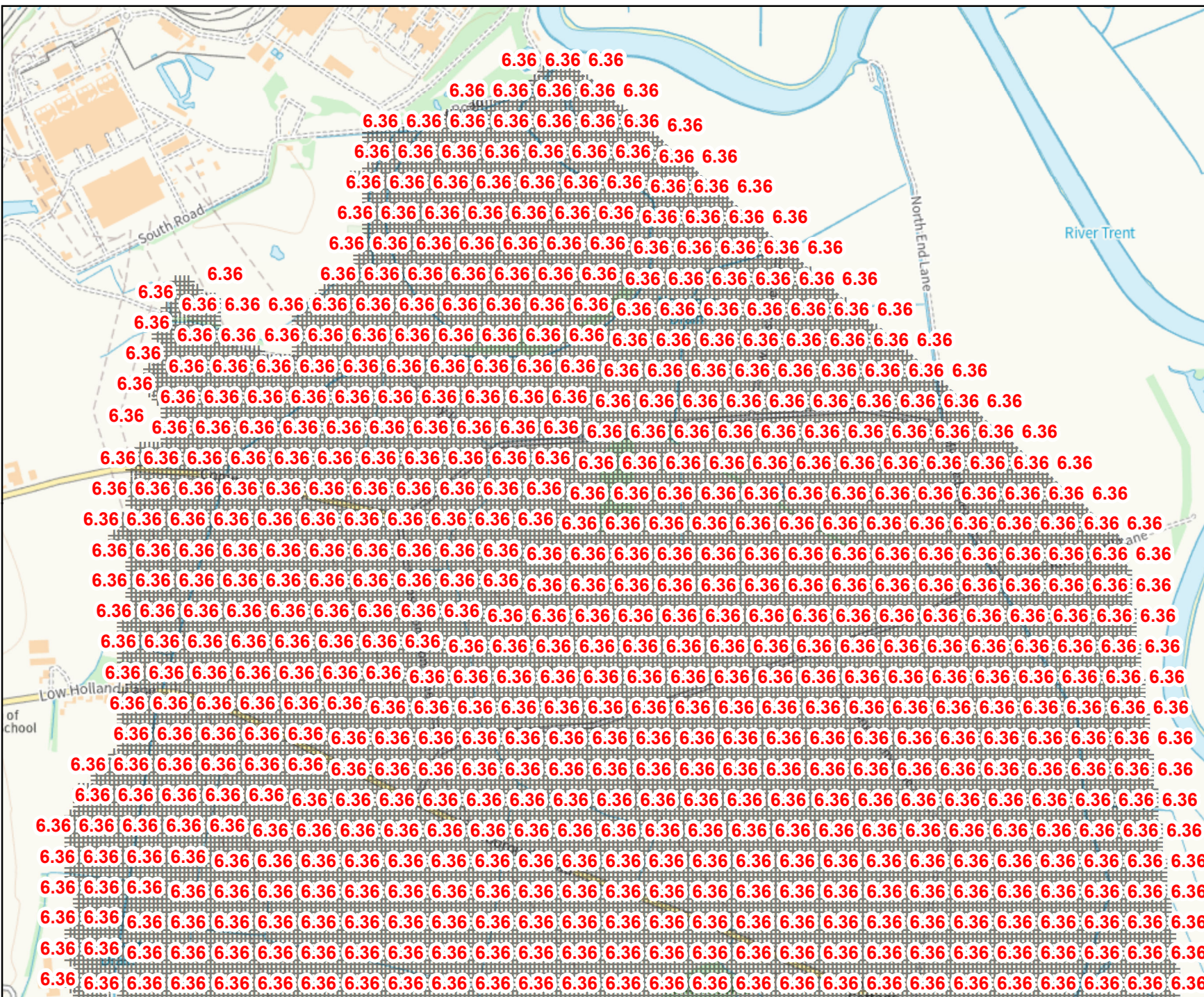


# Floodplain Heights Map- part 1 (Breach 36)



Scale 1:15,000  
Date created: 27 November 2024

Legend  
+ 1 in 100yr +29%CC Height (mAOD)



SOURCE:  
Tidal Trent, Jacobs,  
2023



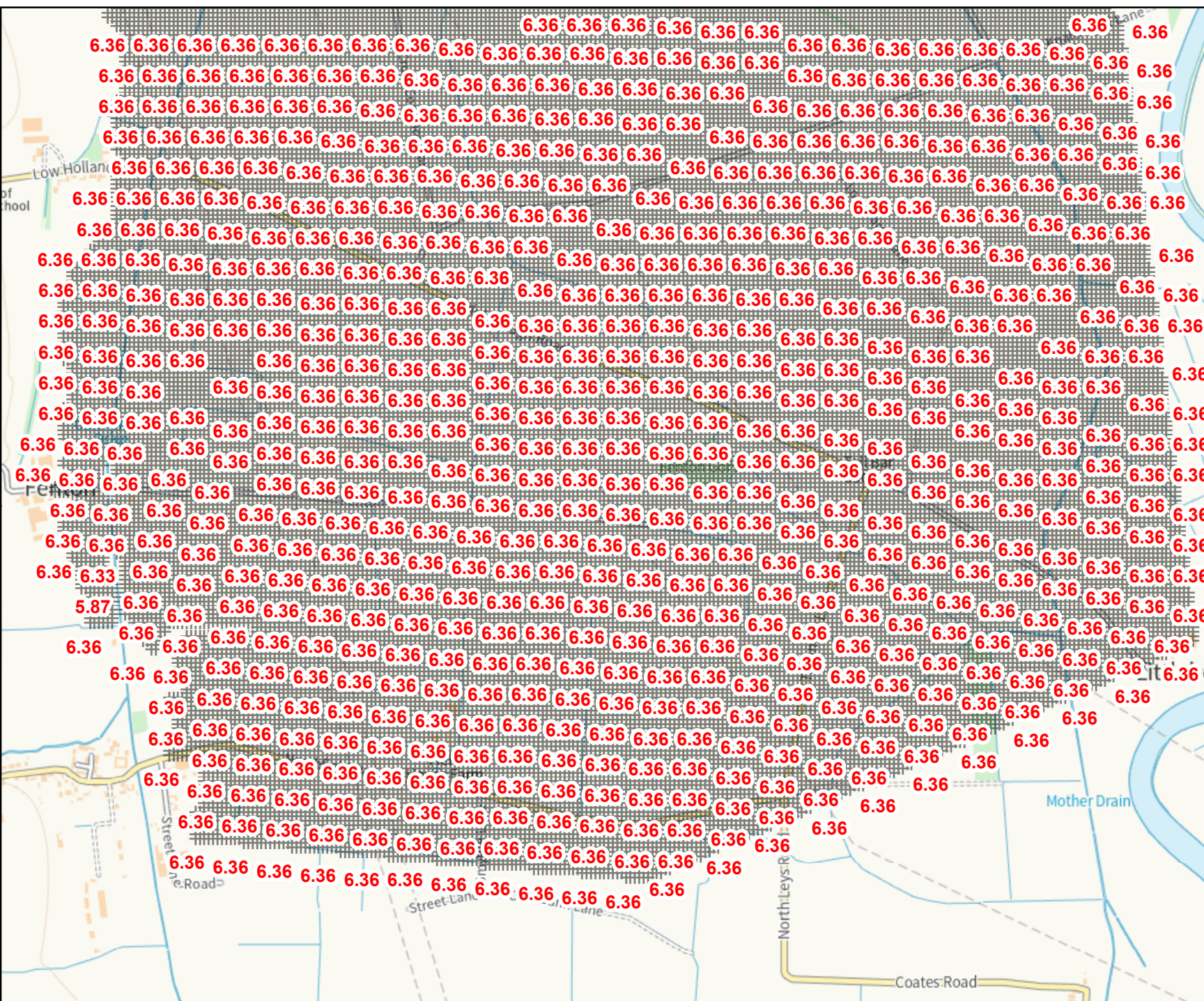
## Floodplain Heights Map- part 2 (Breach 36)



Scale 1:15,000  
Date created: 27 November 2024

### Legend

+ 1 in 100yr +29%CC Height (mAOD)



**SOURCE:**  
Tidal Trent, Jacobs,  
2023



# Modelled Flood Breach Extents Map (Breach 29)



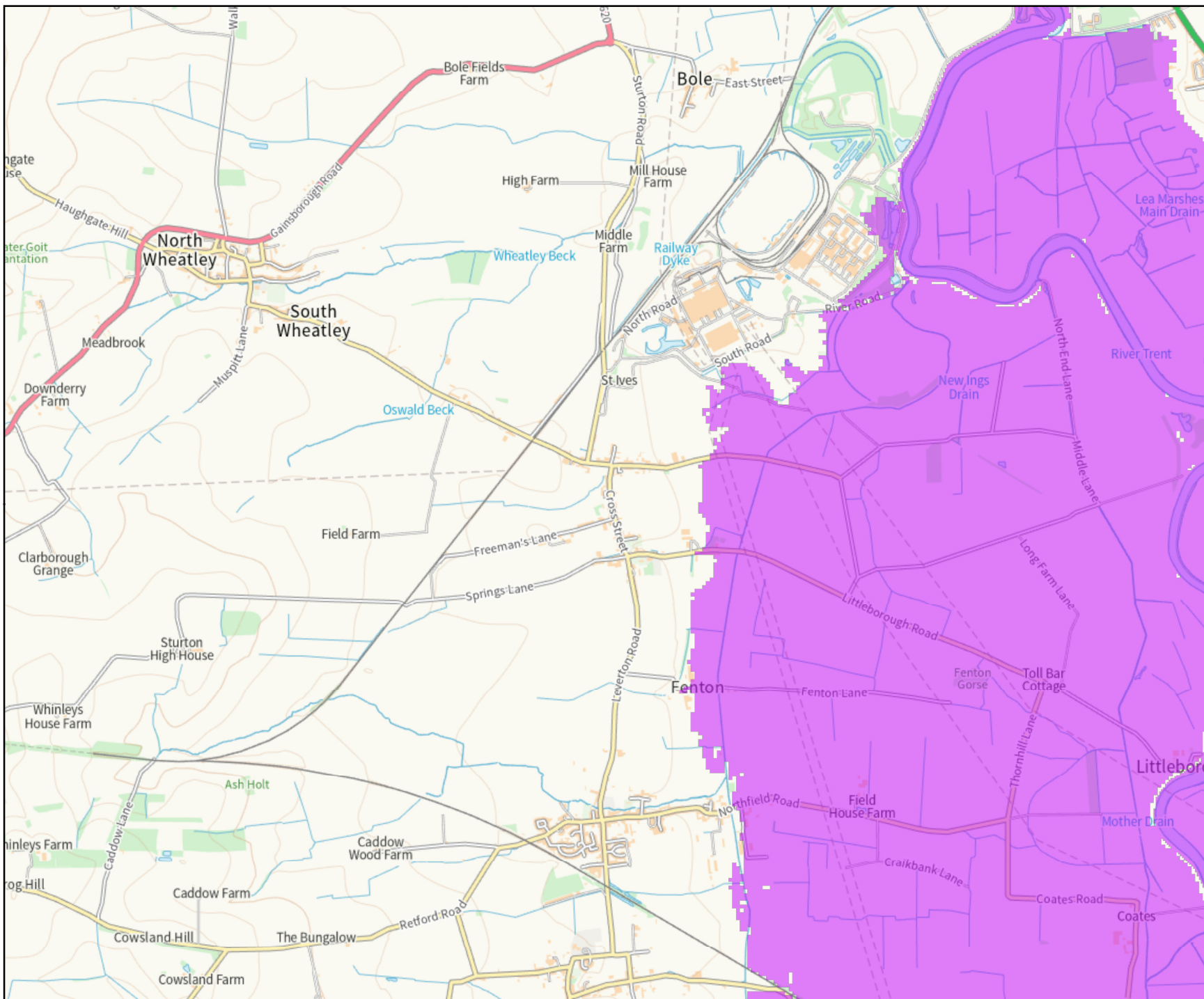
**Scale** 1:35,000  
Date created: 27 November 2024

## Legend

1 in 100yr +29%CC Breach extent

**SOURCE:**  
Tidal Trent, Jacobs,  
2023

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# Floodplain Heights Map- part 1 (Breach 29)



Scale 1:15,000  
Date created: 27 November 2024

## Legend

+ 1 in 100yr +29%CC Height (mAOD)

**SOURCE:**  
Tidal Trent, Jacobs,  
2023



## Floodplain Heights Map- part 2 (Breach 29)

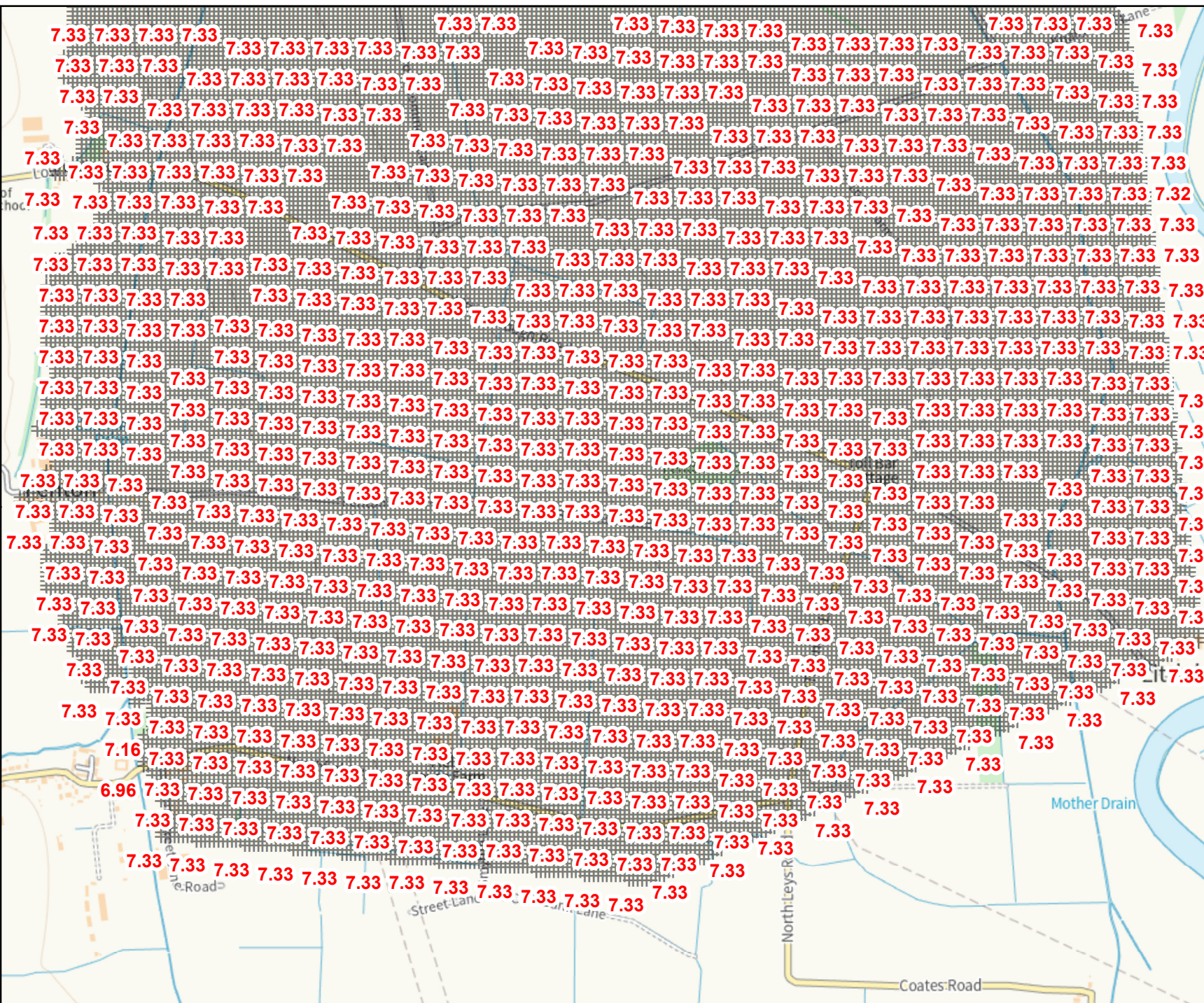


Scale 1:15,000

Date created: 27 November 2024

Legend

+ 1 in 100yr +29%CC Height (mAOD)



**SOURCE:**  
Tidal Trent, Jacobs,  
2023

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