

NOTE TO FILE

JBA Project Code 2017s5849
Contract Hartlepool Borough Council Local Plan Potential Sites Level 2
Strategic Flood Risk Assessment – Site Screening
Client Hartlepool Borough Council
Day, Date and Time V3.0 03/08/17
Author David Barton. Reviewed: Howard Keeble
Subject Designation Area – Modelled Flood Depths & Hazard Rating



1 Introduction

The File Note provides modelled flood outlines, depths and hazard ratings for each Designation Area for both current day and climate change scenarios.

The following model outputs are provided

- Depth 0.5% AEP Current Day (FZ3a)
- Depth 0.1% AEP Current Day (FZ2)
- Hazard 0.5% AEP Current Day (FZ3a)
- Hazard 0.1% AEP Current Day (FZ2)

- Depth 0.5% AEP Climate Change
- Depth 0.1% AEP Climate Change
- Hazard 0.5% AEP Climate Change
- Hazard 0.1% AEP Climate Change

For sites subject to fluvial flooding, Flood Zone 3a is the 1% AEP

The following applies to all plans within this File Note.

Key

Flood Depth (m)

- 0 - 0.15
- 0.15 - 0.3
- 0.3 - 0.6
- 0.6 - 0.9
- 0.9 - 1.2
- >1.2

Hazard Rating

- No Hazard (0)
- Low Hazard (<0.75)
- Moderate Hazard (0.75-1.25)
- Significant Hazard (1.25-2.00)
- Extreme Hazard (>2.00)

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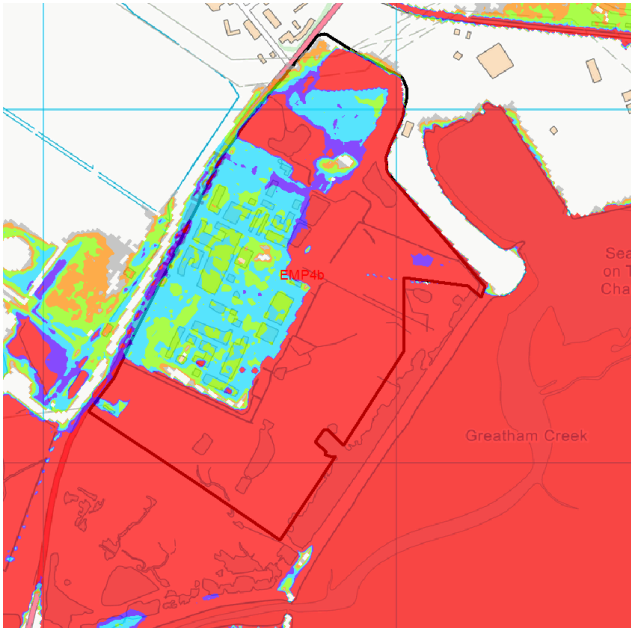
JBA Project Code 2017s5849
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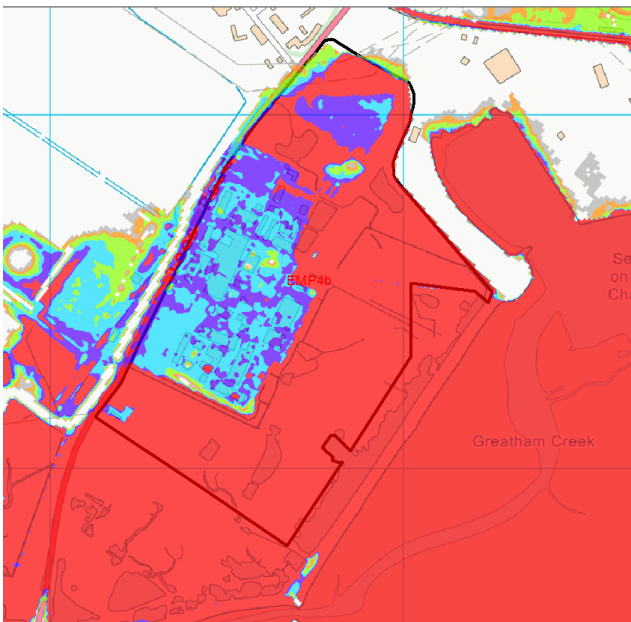
EMP4b West of Seaton Channel

Current Day

Tidal Tees Integrated Flood Model 2011



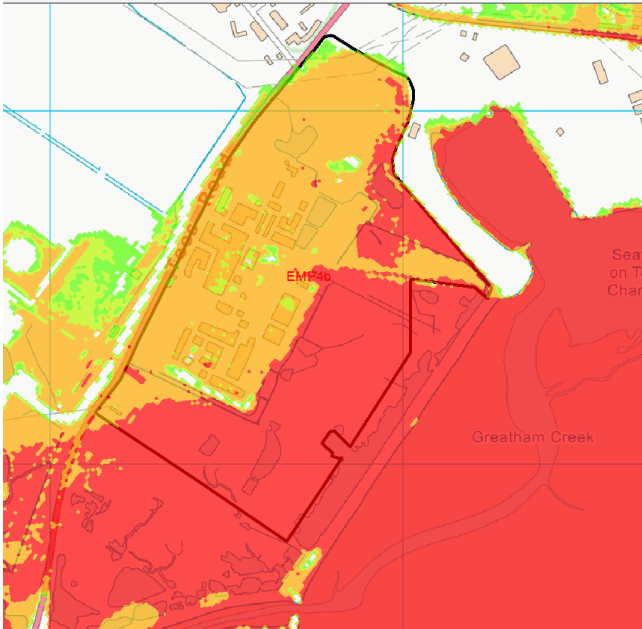
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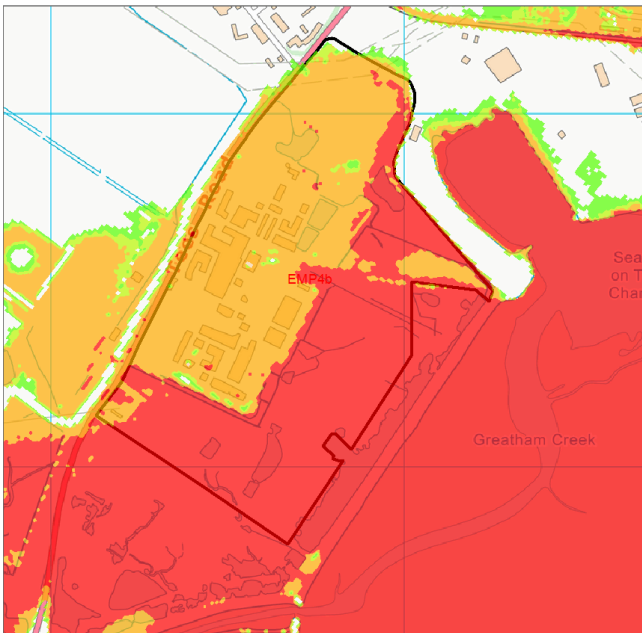
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Hazard 0.5% AEP Current Day



Hazard 0.1% AEP Current Day

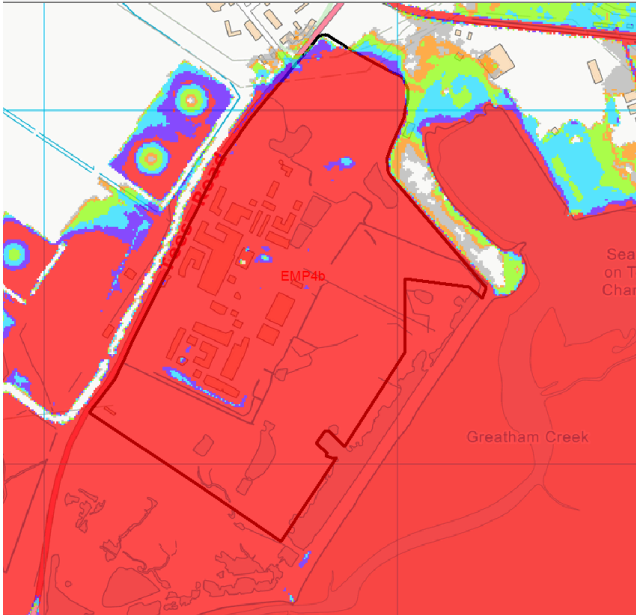
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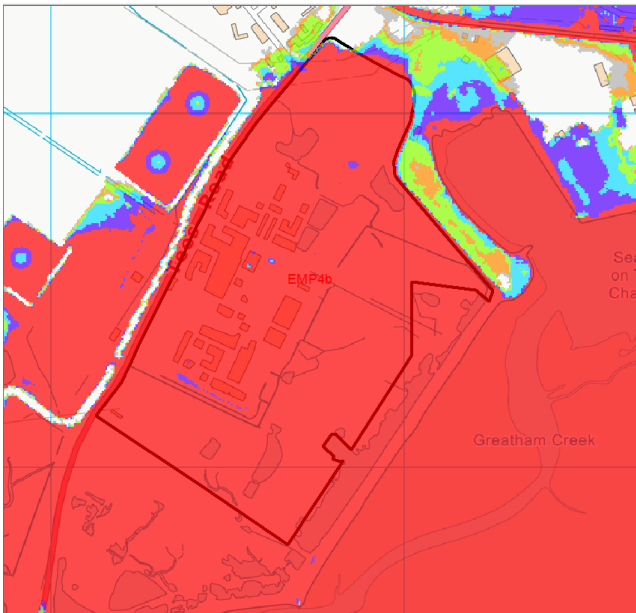


Climate Change

Tidal Tees Integrated Flood Model 2015 – Updated for climate change



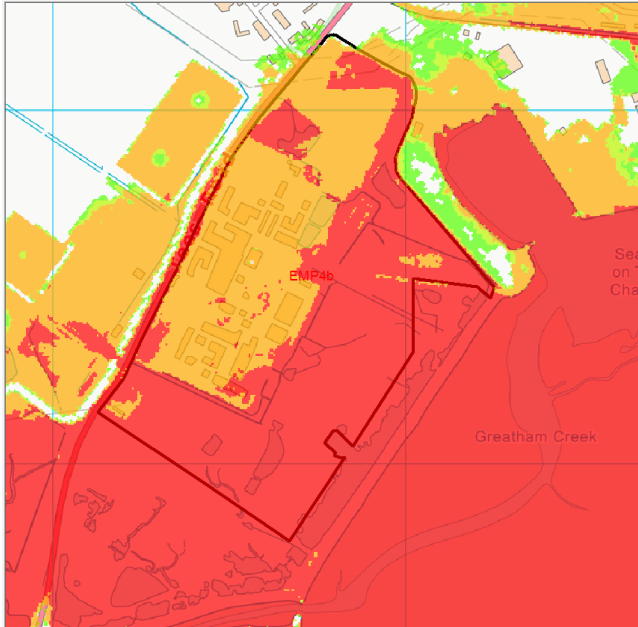
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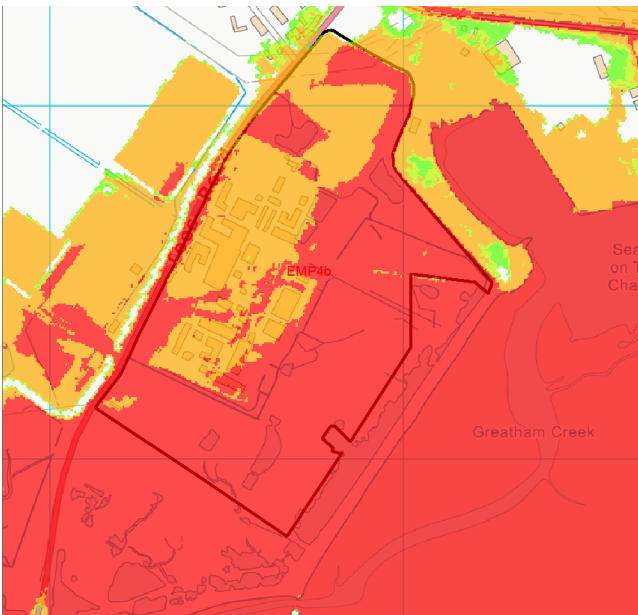
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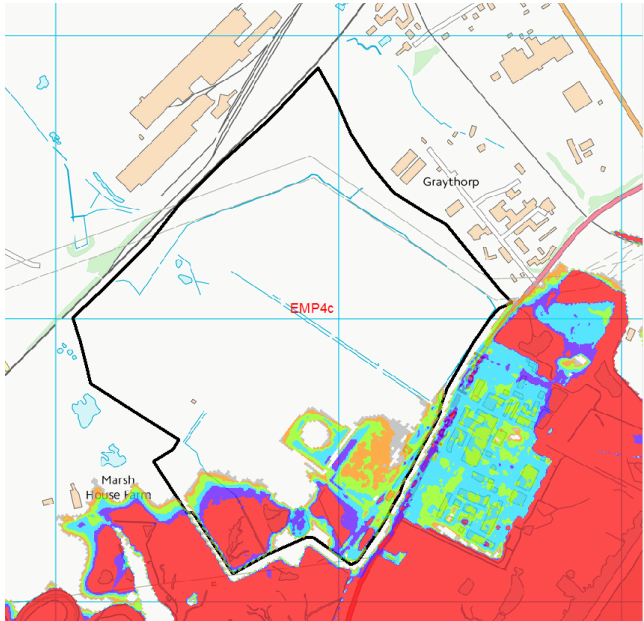
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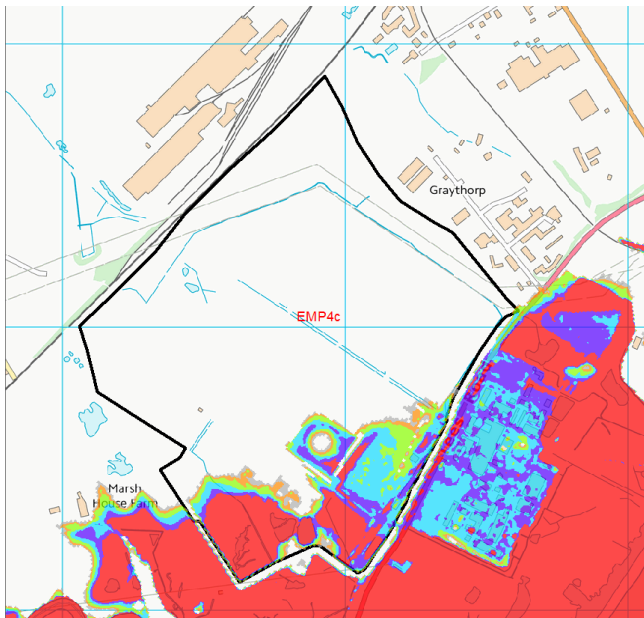
EMP4c Philips Tank Farm

Current Day

Tidal Tees Integrated Flood Model 2011



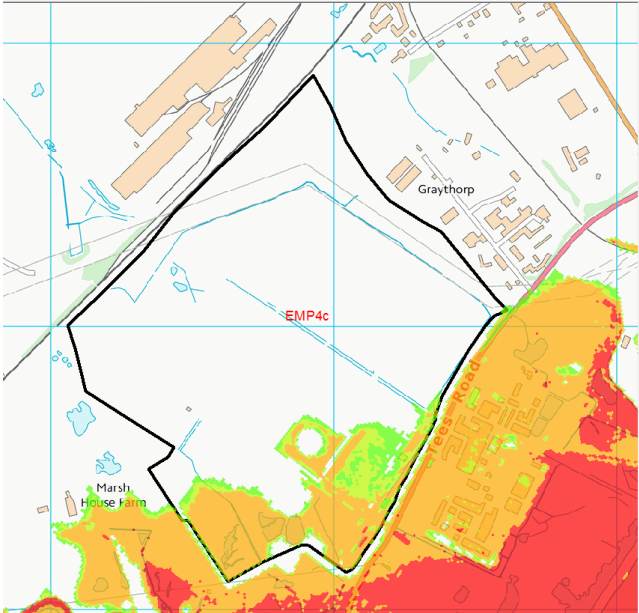
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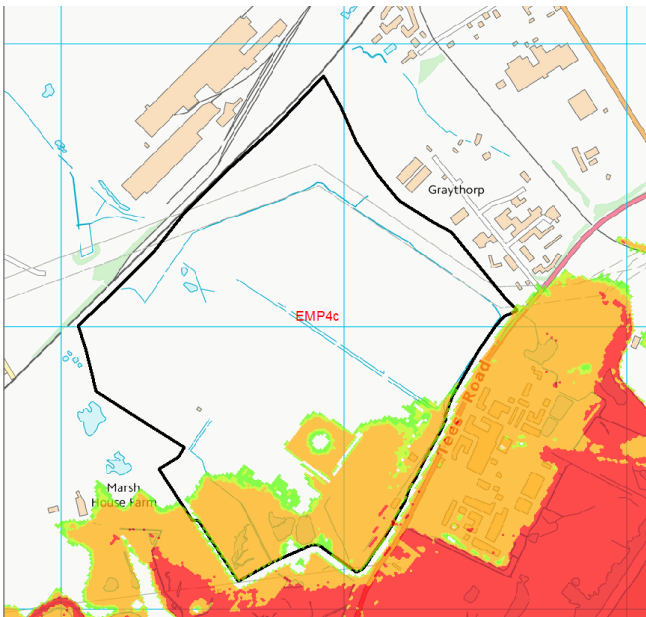
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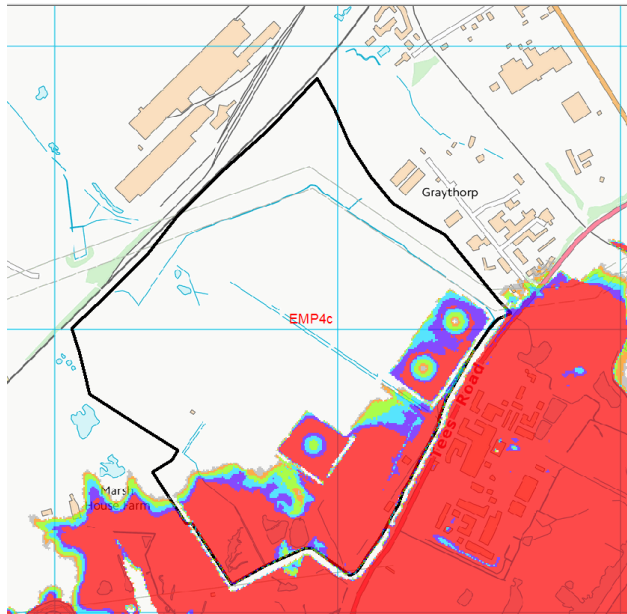
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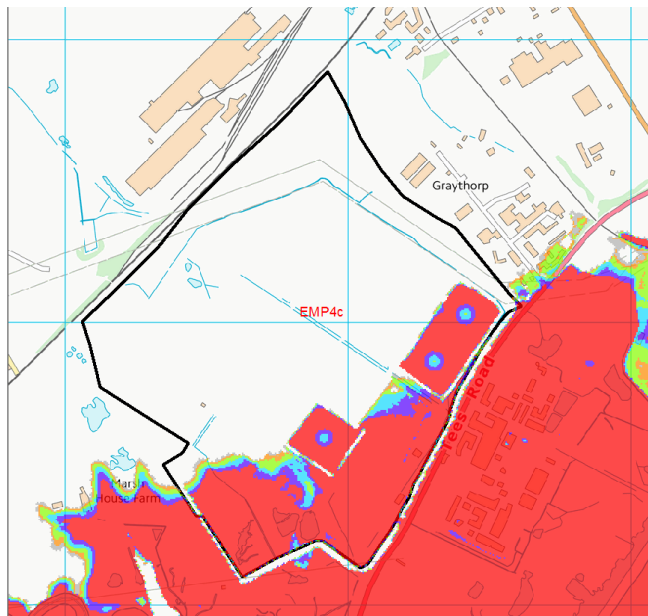


Climate Change

Tidal Tees Integrated Flood Model 2015 – Updated for climate change



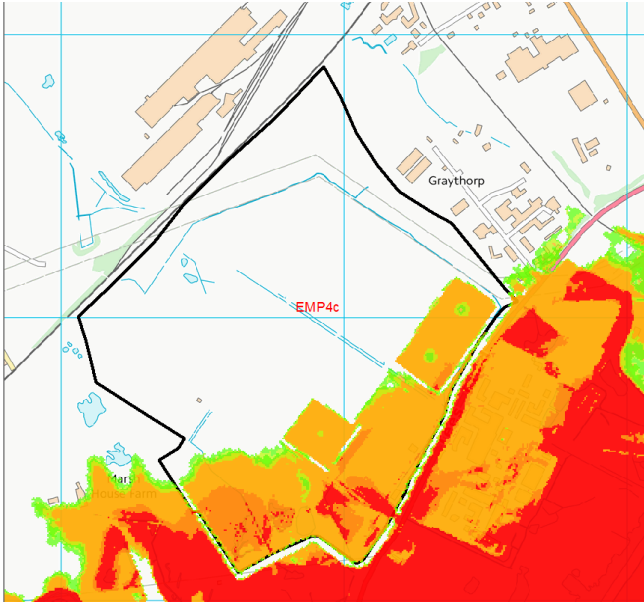
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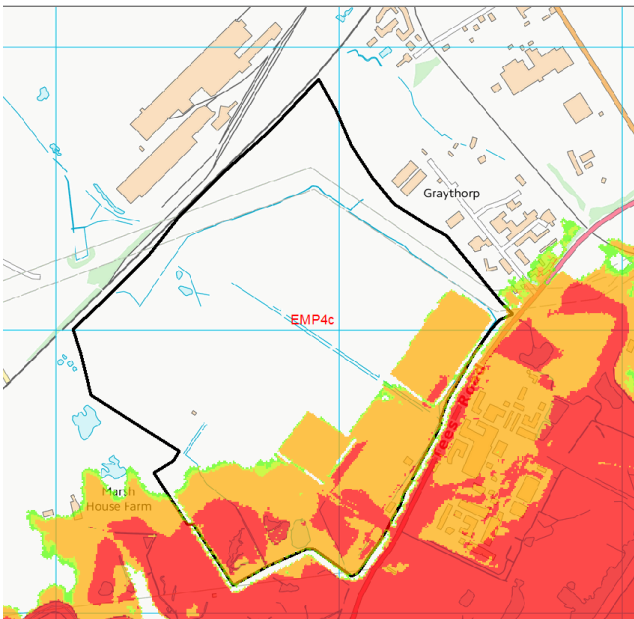
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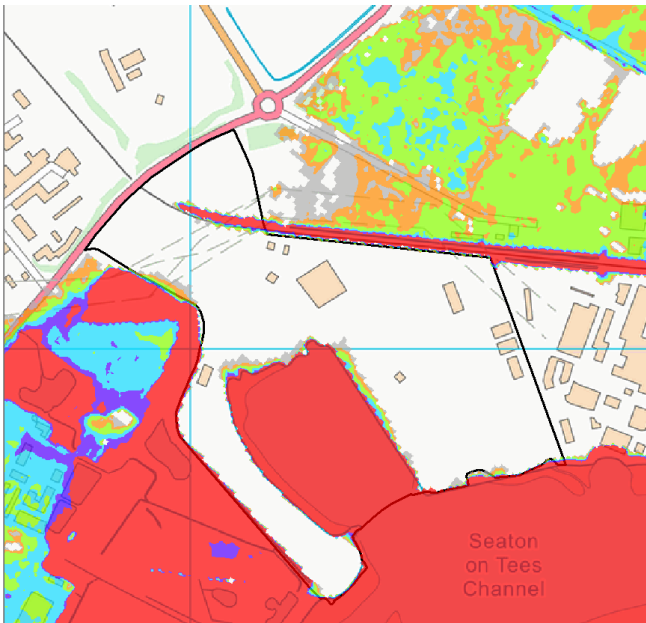
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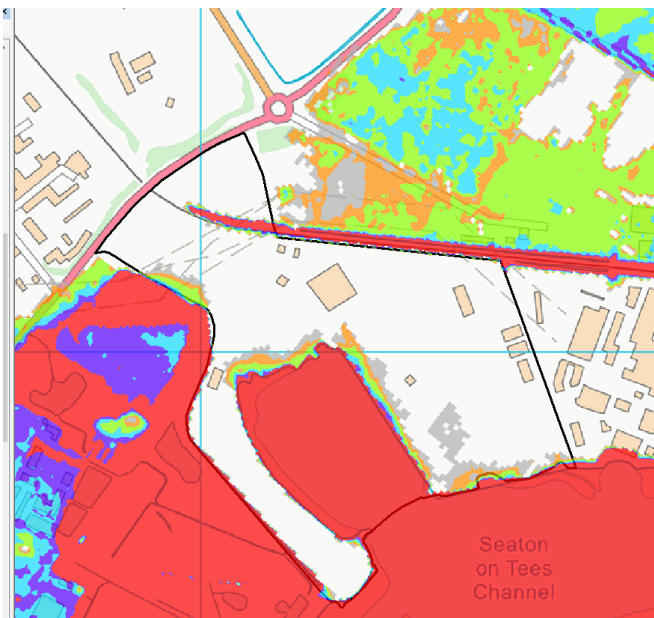
EMP4g Graythorpe Yard (Able Seaton Port)

Current Day

Tidal Tees Integrated Flood Model 2011



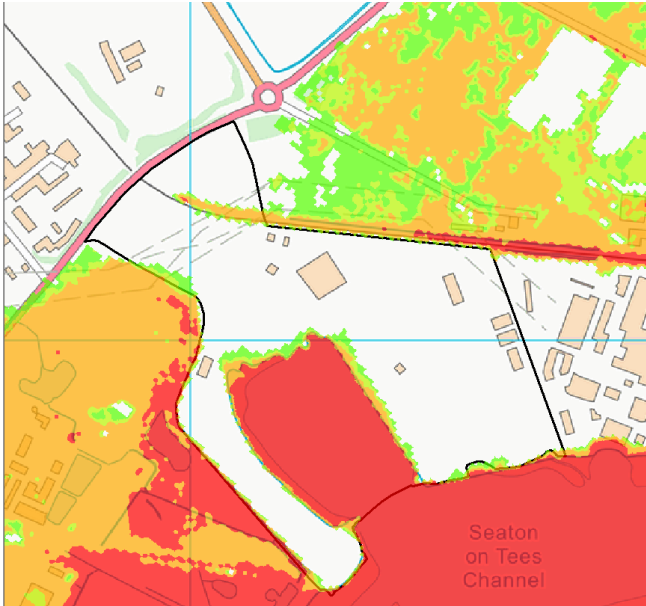
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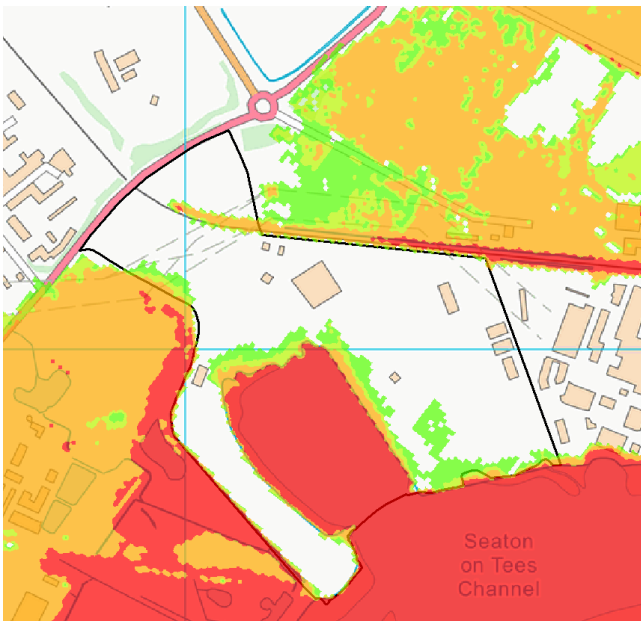
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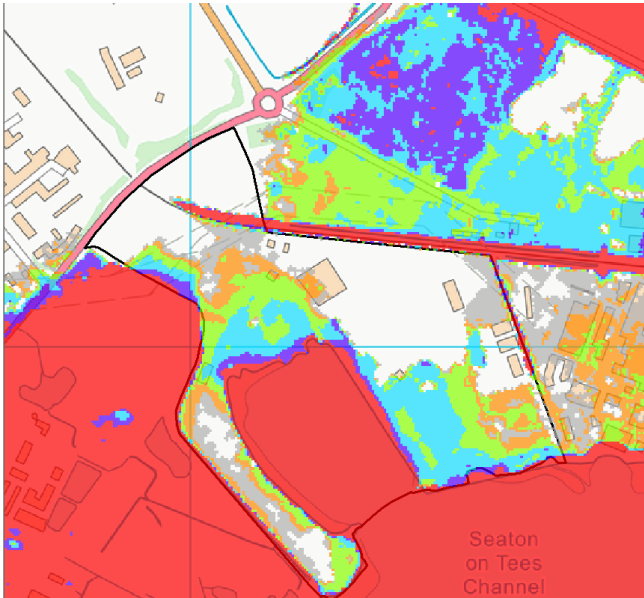
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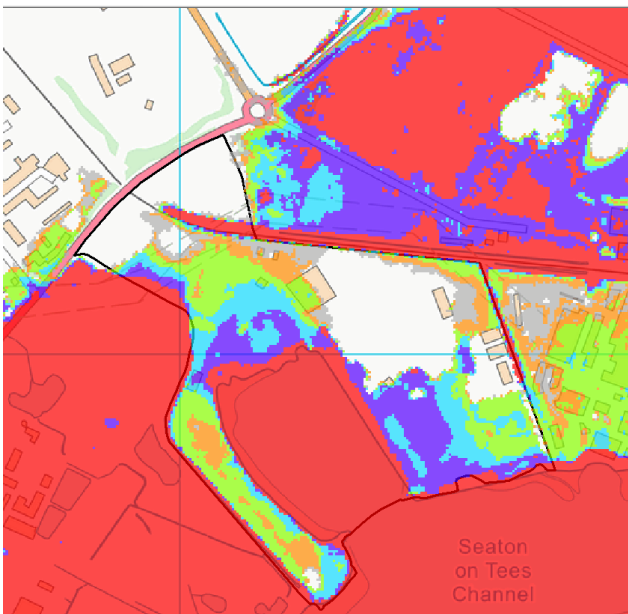


Climate Change

Tidal Tees Integrated Flood Model 2015 – Updated for climate change



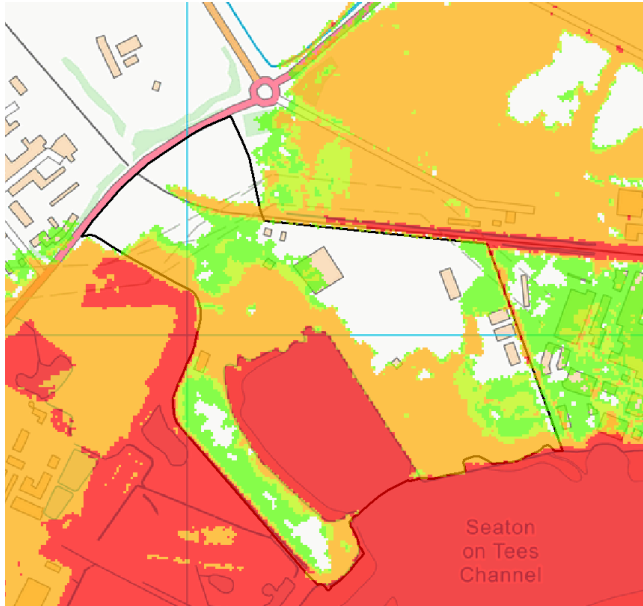
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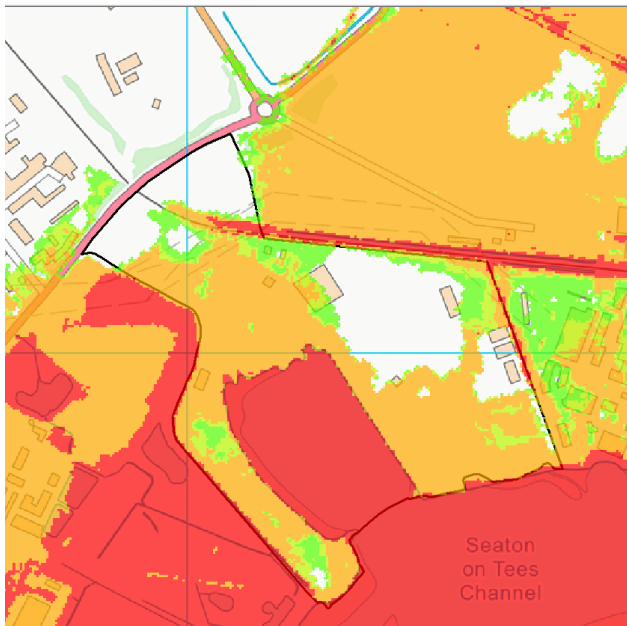
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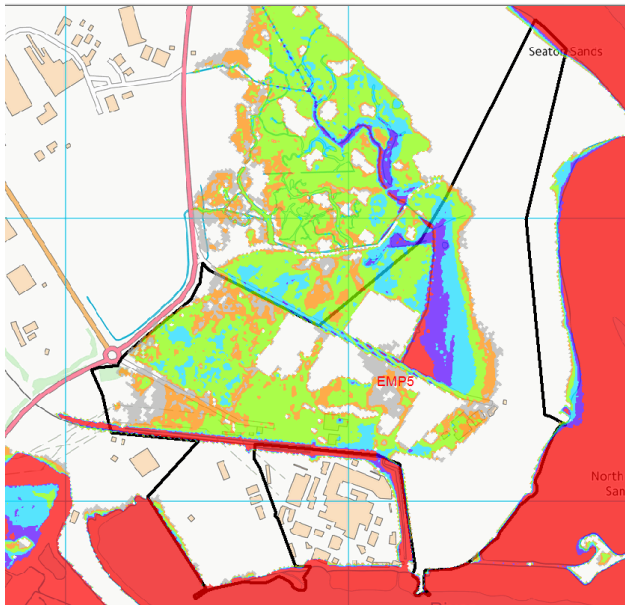
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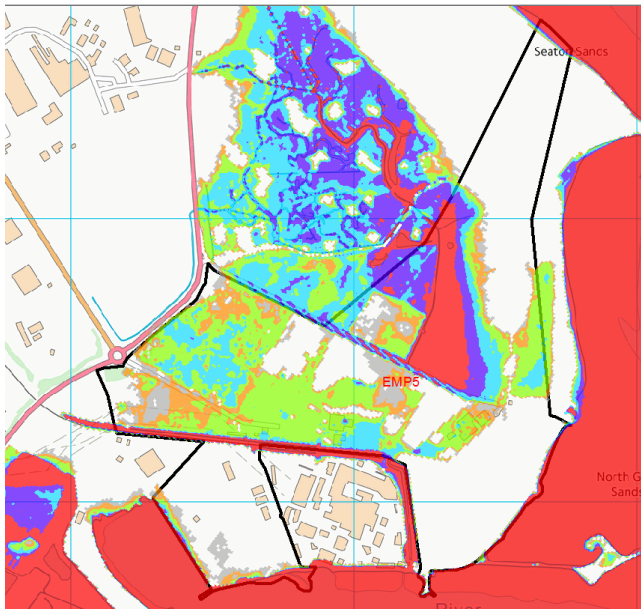
EMP5 Nuclear Power Station Reserve

Current Day

Tidal Tees Integrated Flood Model 2011



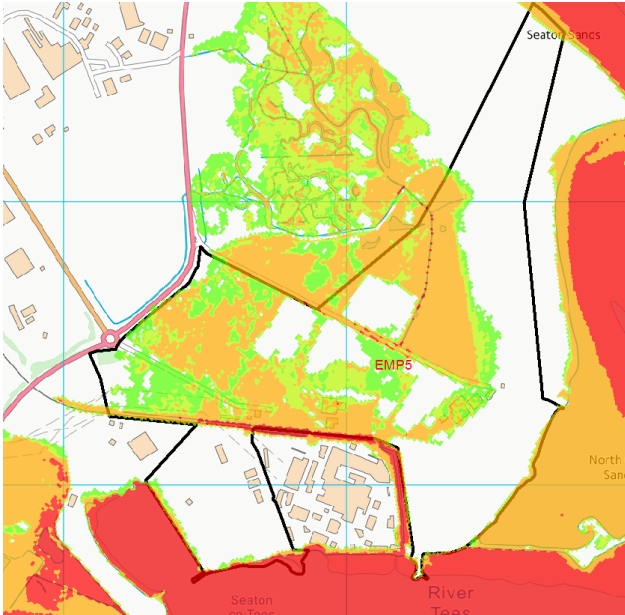
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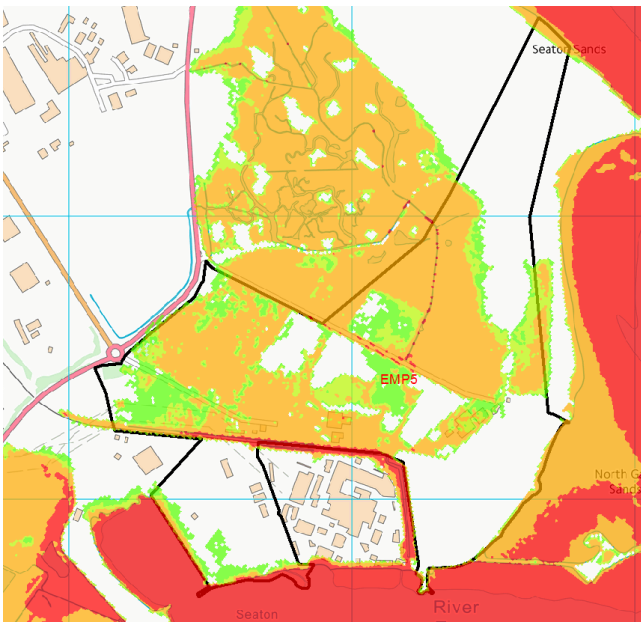
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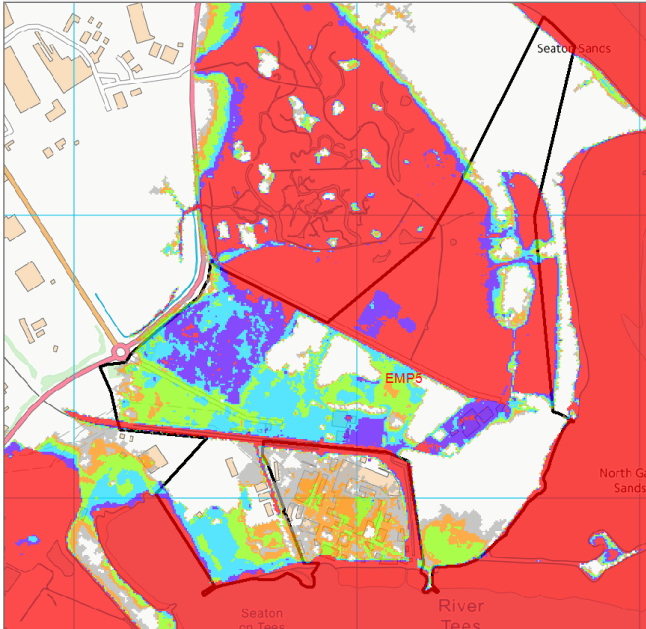
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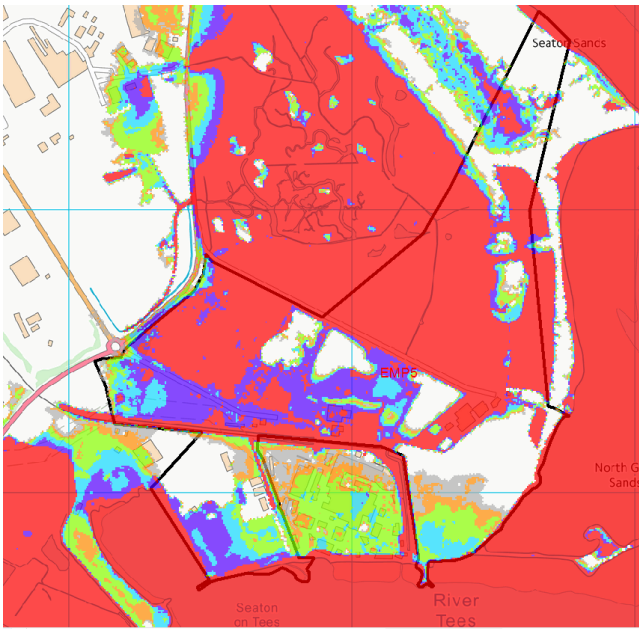


Climate Change

Tidal Tees Integrated Flood Model 2015 – Updated for climate change



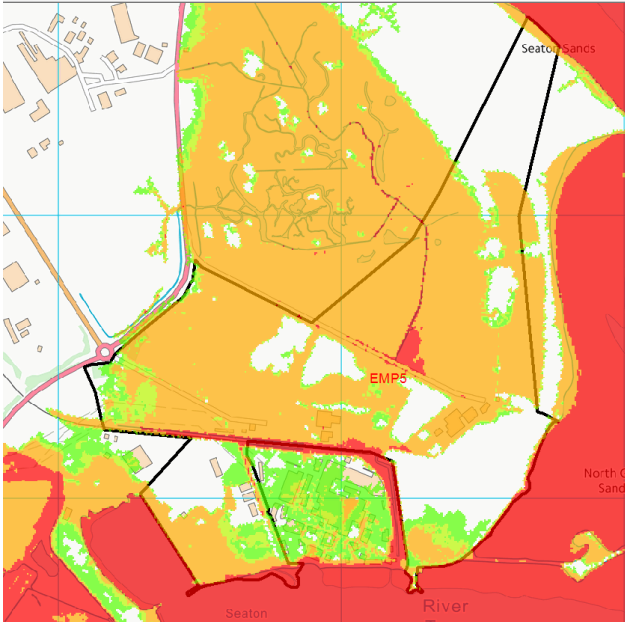
Depth 0.5% AEP Climate Change



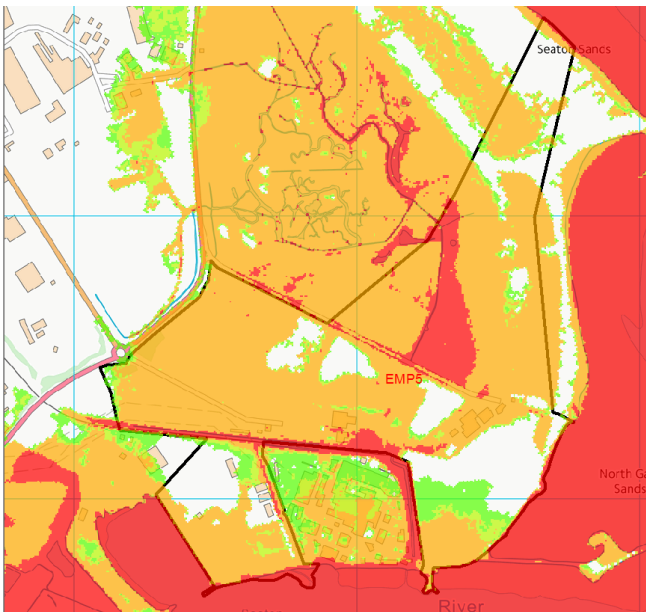
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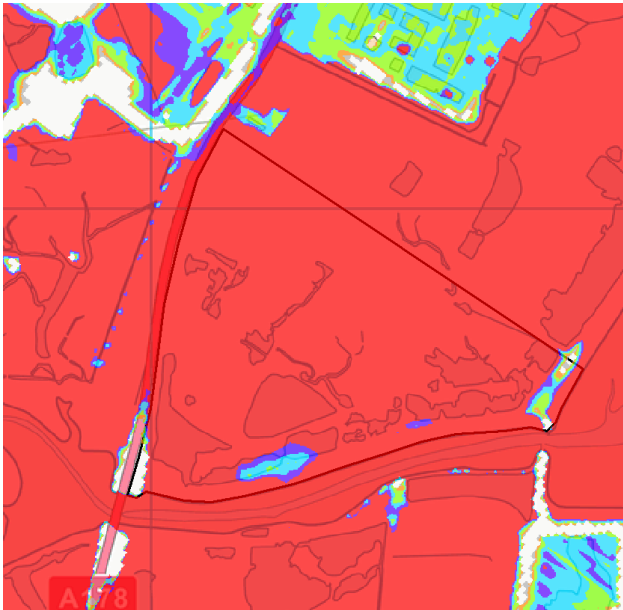
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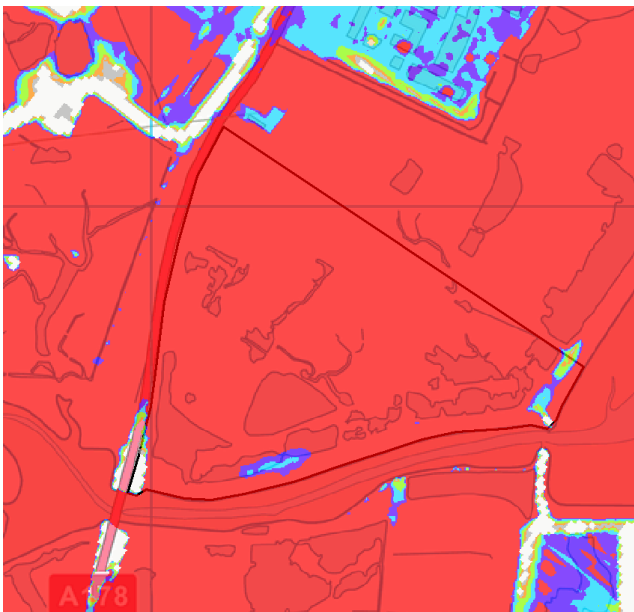
EMP6 Underground Storage

Current Day

Tidal Tees Integrated Flood Model 2011



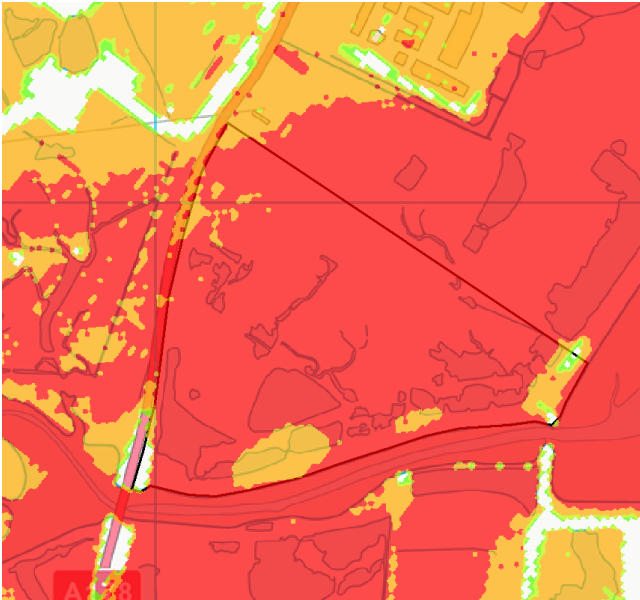
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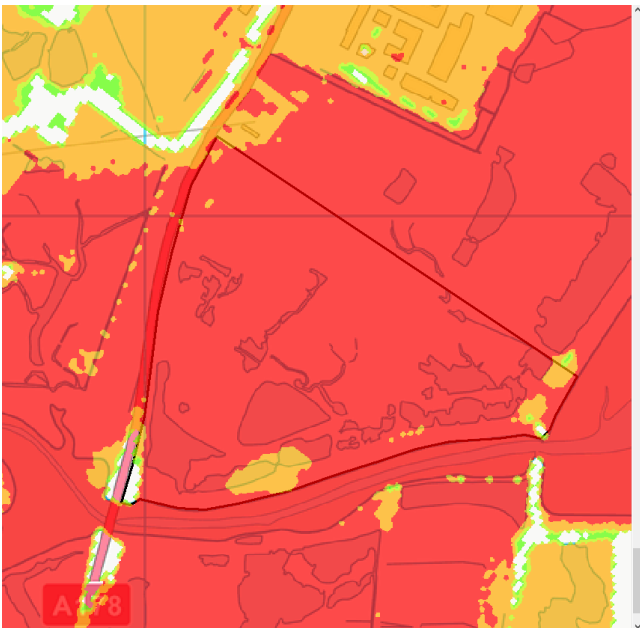
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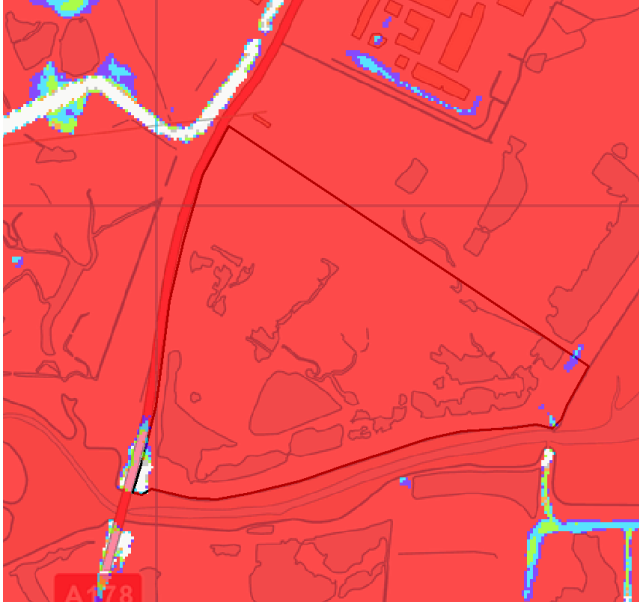
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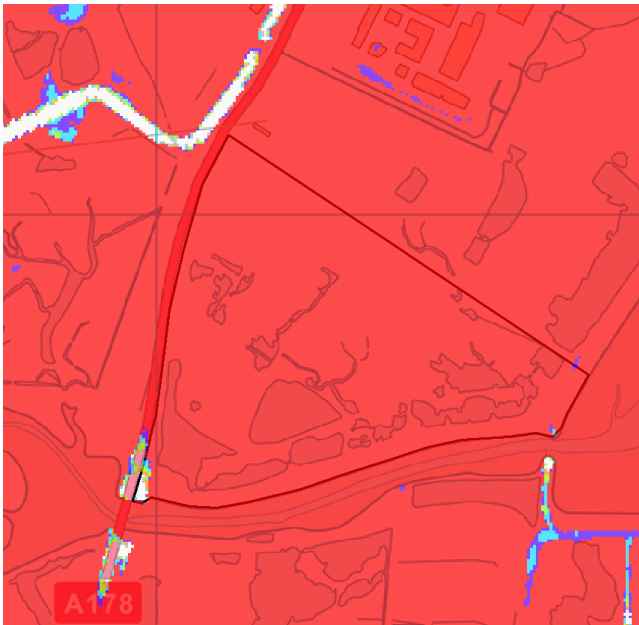


Climate Change

Tidal Tees Integrated Flood Model 2015 – Updated for climate change



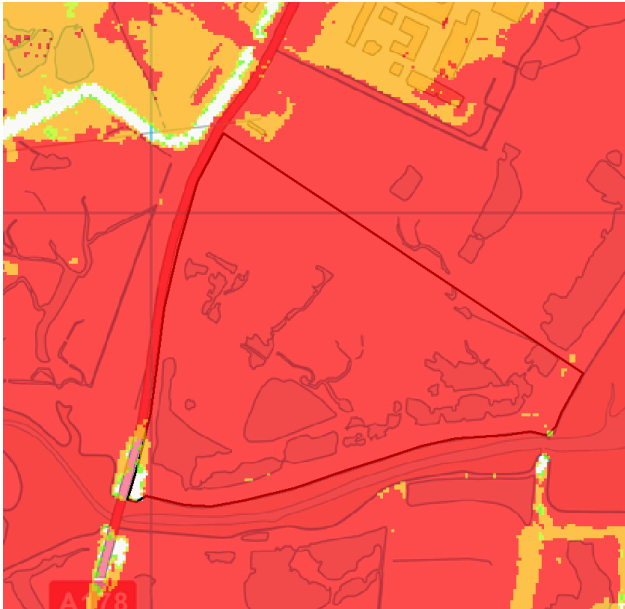
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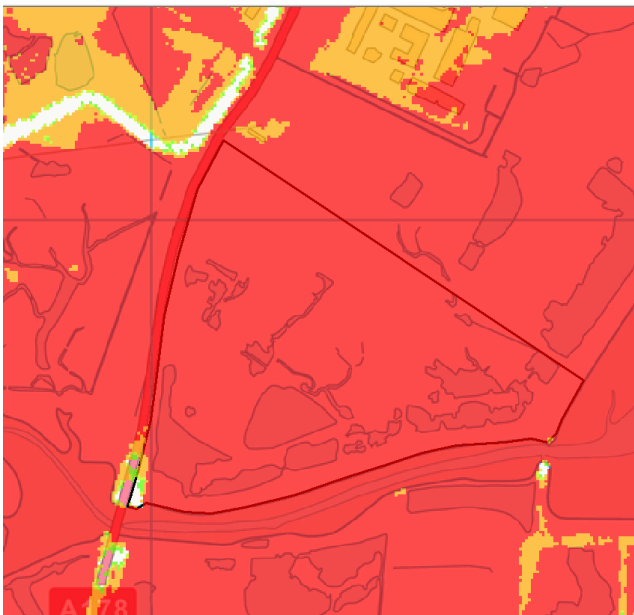
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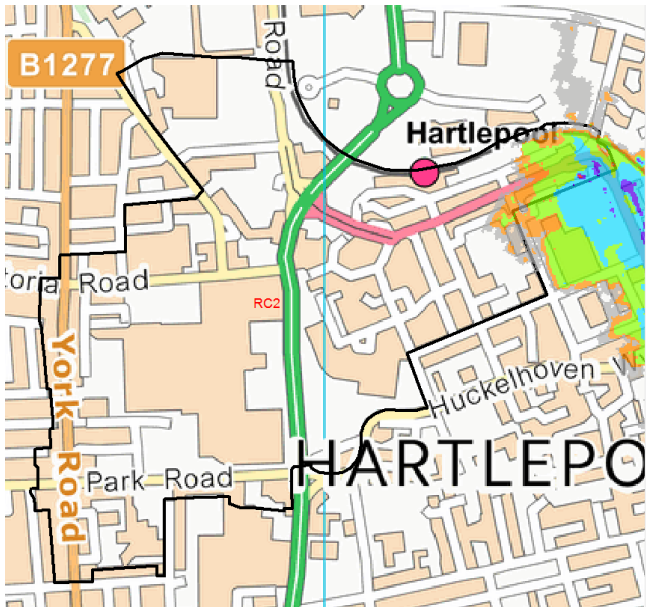
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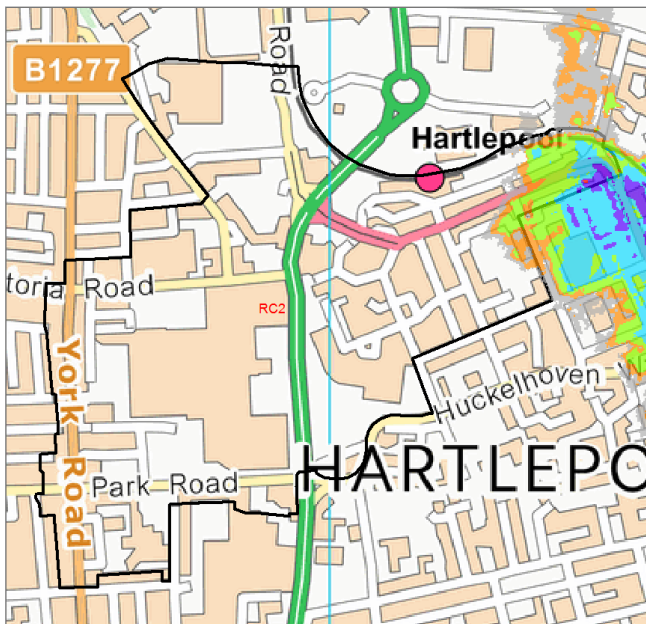
RC2 The Town Centre

Current Day

Hartlepool Flood Mapping & FWI Study Model 2012



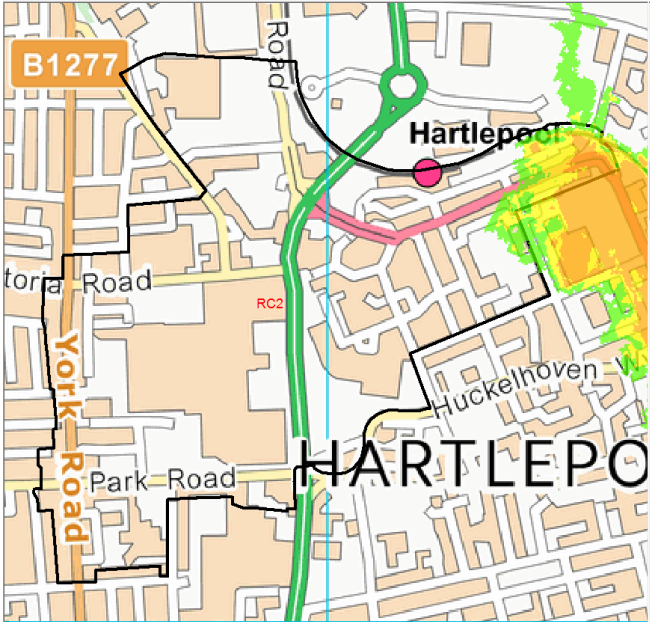
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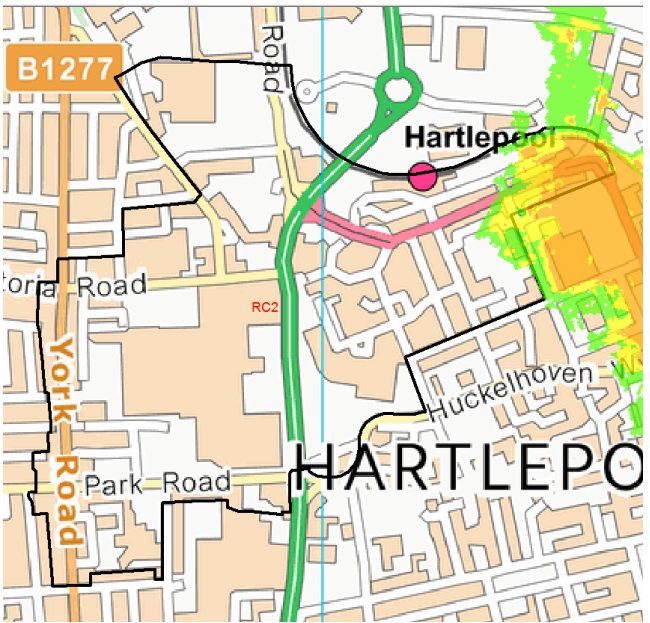
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Climate Change

Depth 0.5% AEP Climate Change
As flooding related to Wave Overtopping-Similar to current Day Flood Zone 2.

Depth 0.1% AEP Climate Change
Data Not Available - Refer to report for discussion

Hazard 0.5% AEP Climate Change
As flooding related to Wave Overtopping-Similar to current Day Flood Zone 2.

Hazard 0.1% AEP Climate Change
Data Not Available - Refer to report for discussion

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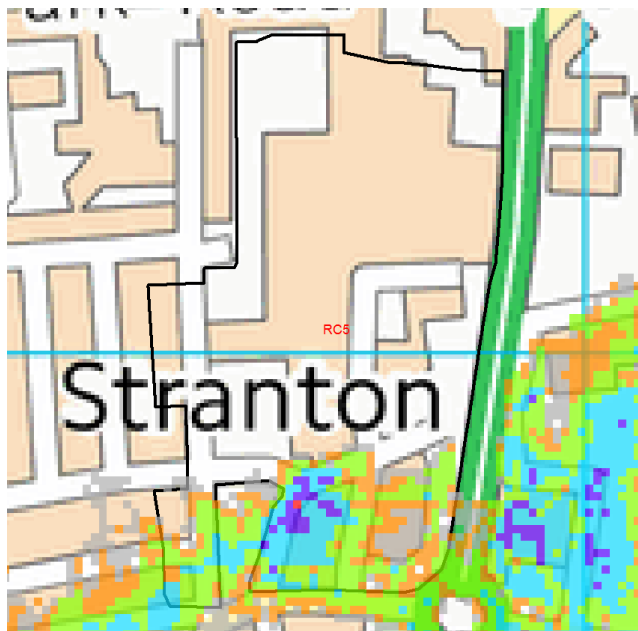
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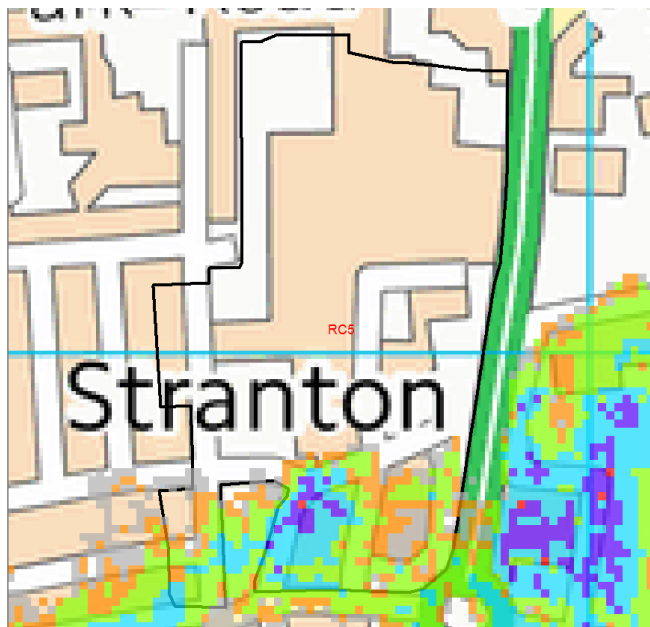
RC5 The Brewery and Stranton

Current Day

Hartlepool FRM Study (Fluvial and Tidal) 2008



Depth 1% AEP Current Day (Strategic Modelling)



Depth 0.1% AEP Current Day (Strategic Modelling)

Hazard 1% AEP Current Day

Data Not Available - Refer to report for discussion

Hazard 0.1% AEP Current Day

Data Not Available - Refer to report for discussion

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Climate Change

Depth 1% AEP Climate Change
Data Not Available - Likely to be similar to current day FZ2.

Depth 0.1% AEP Climate Change
Data Not Available - Refer to report for discussion

Hazard 1% AEP Climate Change
Data Not Available - Likely to be similar to current day FZ2.

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Data Not Available - Refer to report for discussion

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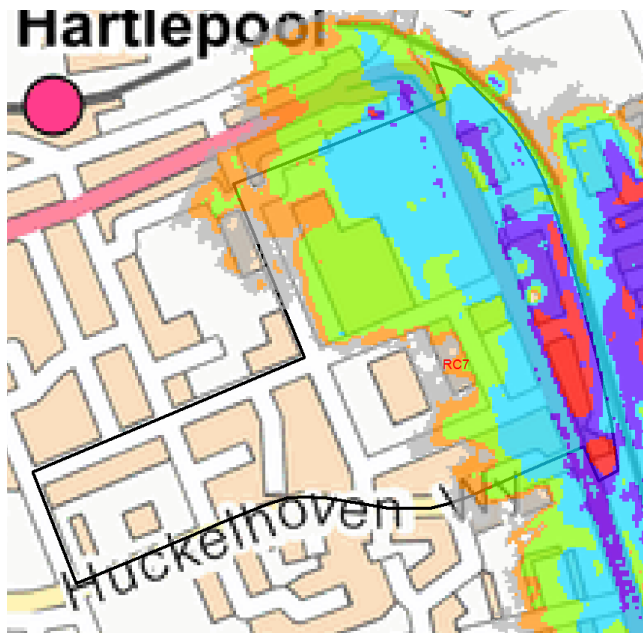
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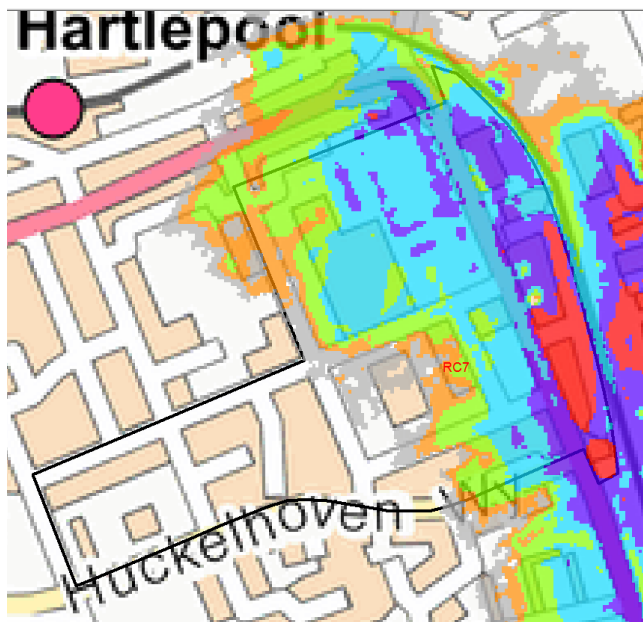
RC7 Lynn Street

Current Day

Hartlepool Flood Mapping & FWI Study Model 2012



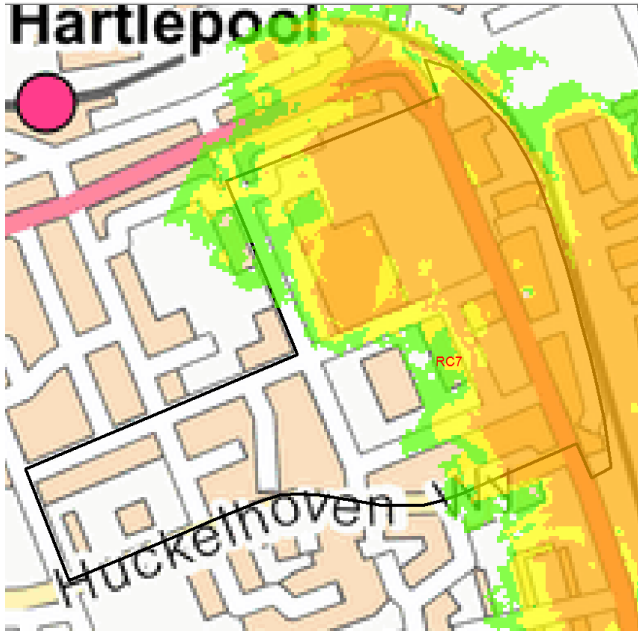
Depth 0.5% AEP Current Day



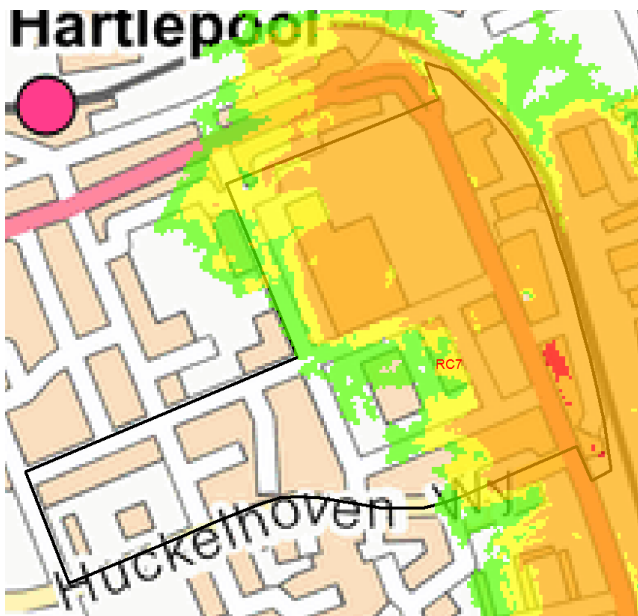
Depth 0.1% AEP Current Day

NOTE TO FILE

JBA Project Code 2017s5849
Contract Hartlepool Borough Council Local Plan Potential Sites Level 2
Strategic Flood Risk Assessment – Site Screening
Client Hartlepool Borough Council
Day, Date and Time V3.0 03/08/17
Author David Barton. Reviewed: Howard Keeble
Subject Designation Area – Modelled Flood Depths & Hazard Rating



Hazard 0.5% AEP Current Day



Hazard 0.1% AEP Current Day

NOTE TO FILE

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Author David Barton. Reviewed: Howard Keeble
Subject Designation Area – Modelled Flood Depths & Hazard Rating



Climate Change

Depth 0.5% AEP Climate Change
As flooding related to Wave Overtopping-Similar to current Day Flood Zone 2.

Depth 0.1% AEP Climate Change
Data Not Available - Refer to report for discussion

Hazard 0.5% AEP Climate Change
As flooding related to Wave Overtopping-Similar to current Day Flood Zone 2

Hazard 0.1% AEP Climate Change
Data Not Available - Refer to report for discussion

NOTE TO FILE

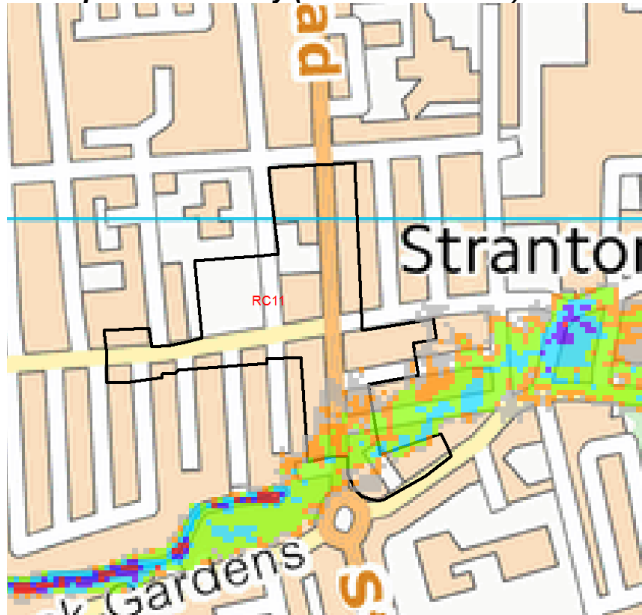
JBA Project Code 2017s5849
Contract Hartlepool Borough Council Local Plan Potential Sites Level 2
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Client Hartlepool Borough Council
Day, Date and Time V3.0 03/08/17
Author David Barton. Reviewed: Howard Keeble
Subject Designation Area – Modelled Flood Depths & Hazard Rating



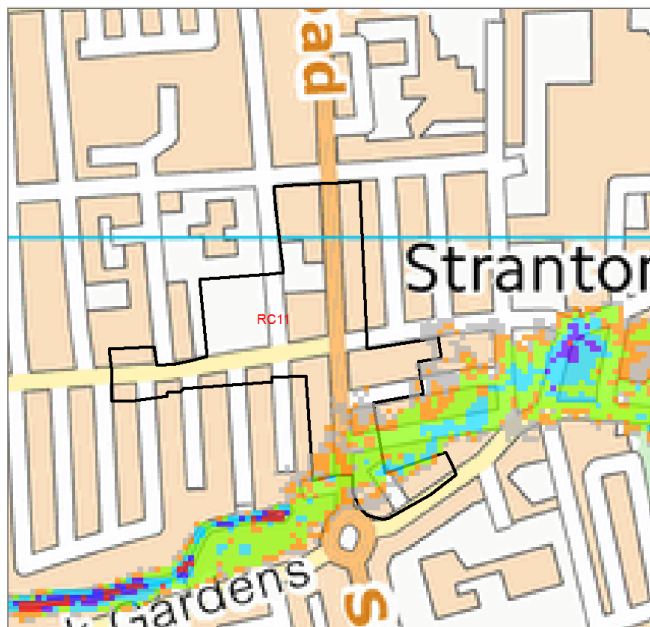
RC11 York Road South

Current Day

Hartlepool FRM Study (Fluvial and Tidal) 2008



Depth 1% AEP Current Day (Strategic Modelling)



Depth 0.1% AEP Current Day (Strategic Modelling)

Hazard 1% AEP Current Day

Data Not Available - Refer to report for discussion

Hazard 0.1% AEP Current Day

Data Not Available - Refer to report for discussion

NOTE TO FILE

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Climate Change

Depth 1% AEP Climate Change
Data Not Available - Likely to be similar to current day FZ2.

Depth 0.1% AEP Climate Change
Data Not Available - Refer to report for discussion

Hazard 1% AEP Climate Change
Data Not Available - Likely to be similar to current day FZ2.

Hazard 0.1% AEP Climate Change
Data Not Available - Refer to report for discussion

NOTE TO FILE

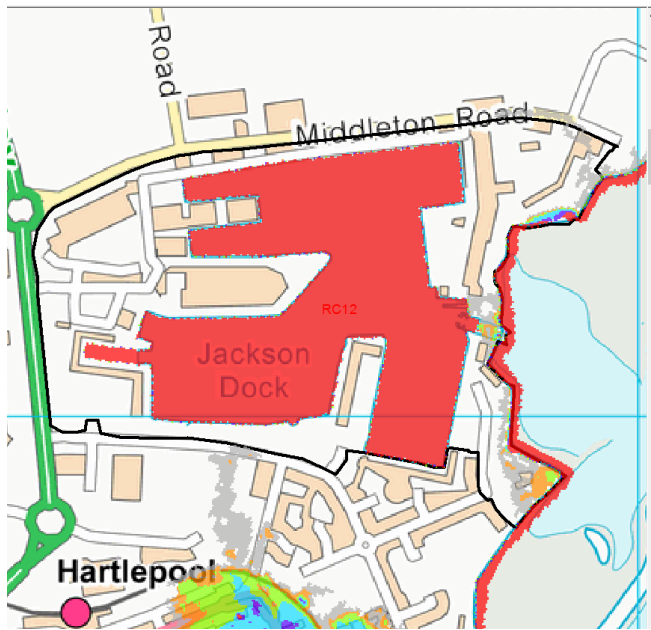
JBA Project Code 2017s5849
Contract Hartlepool Borough Council Local Plan Potential Sites Level 2
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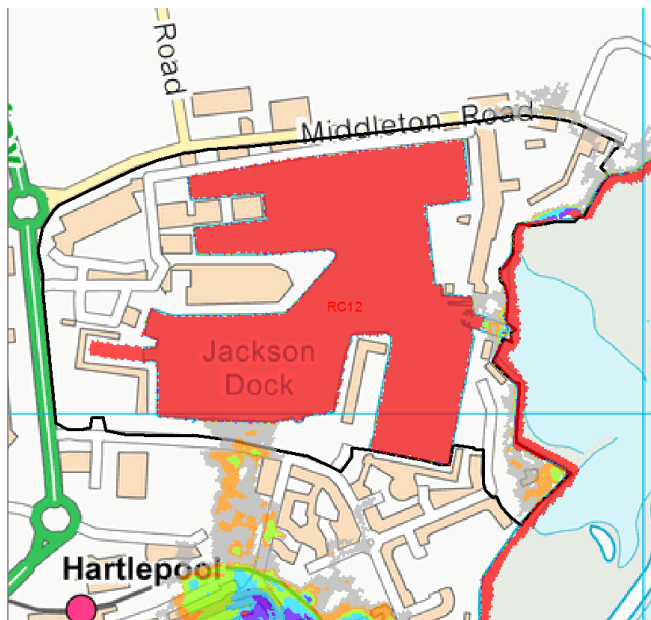
RC12 The Marina

Current Day

Hartlepool Flood Mapping & FWI Study Model 2012



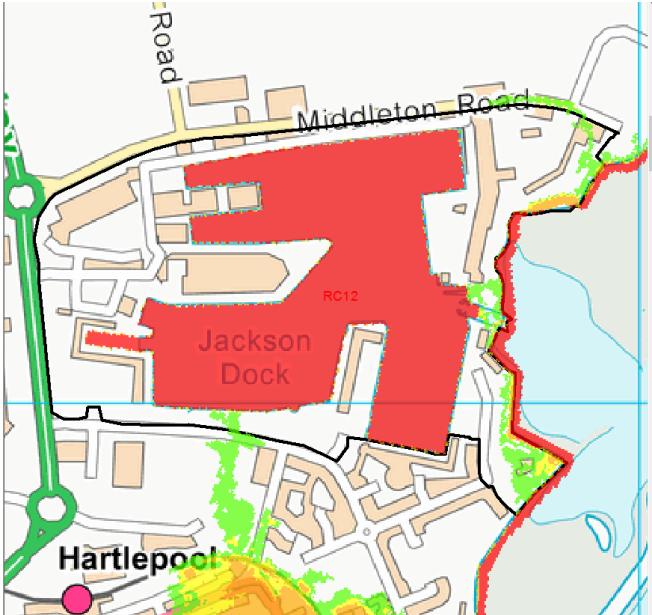
Depth 0.5% AEP Current Day



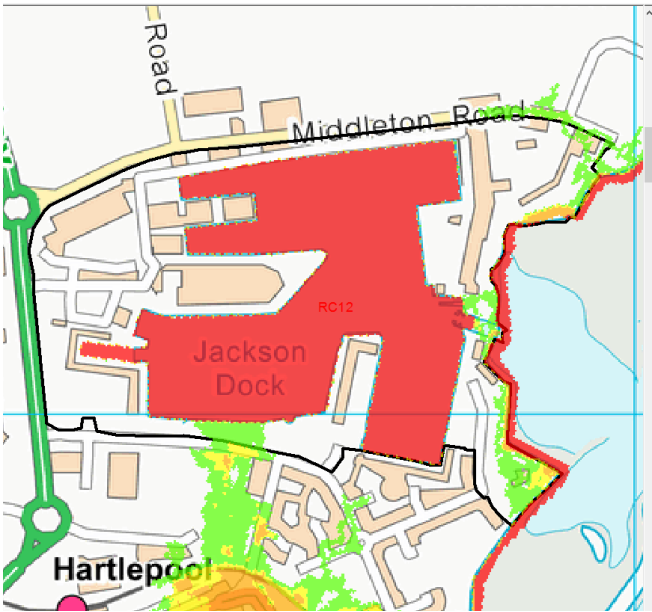
Depth 0.1% AEP Current Day

NOTE TO FILE

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Hazard 0.5% AEP Current Day



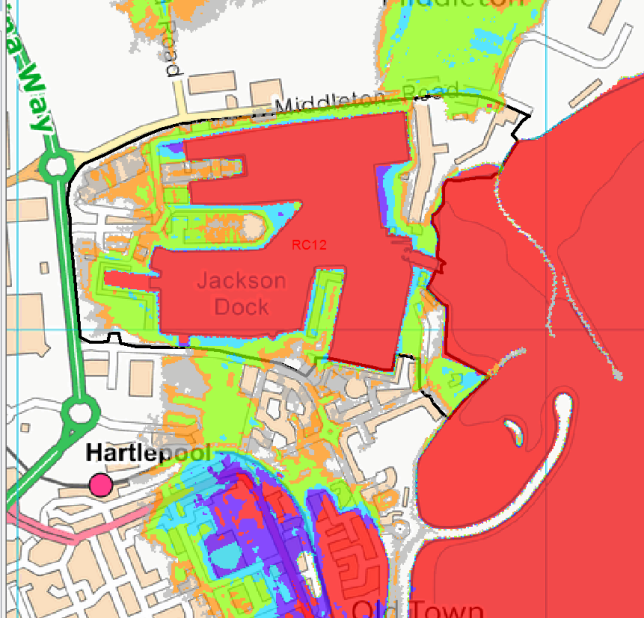
Hazard 0.1% AEP Current Day

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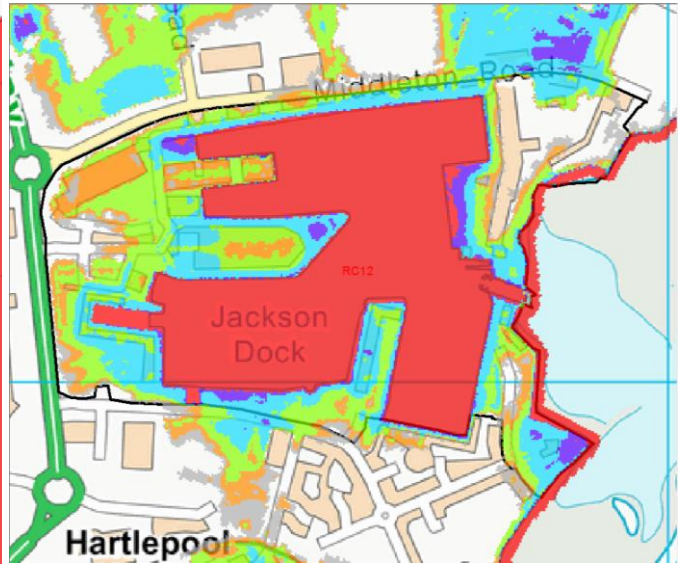
Climate Change



Hartlepool FRM Study (Fluvial and Tidal) 2008

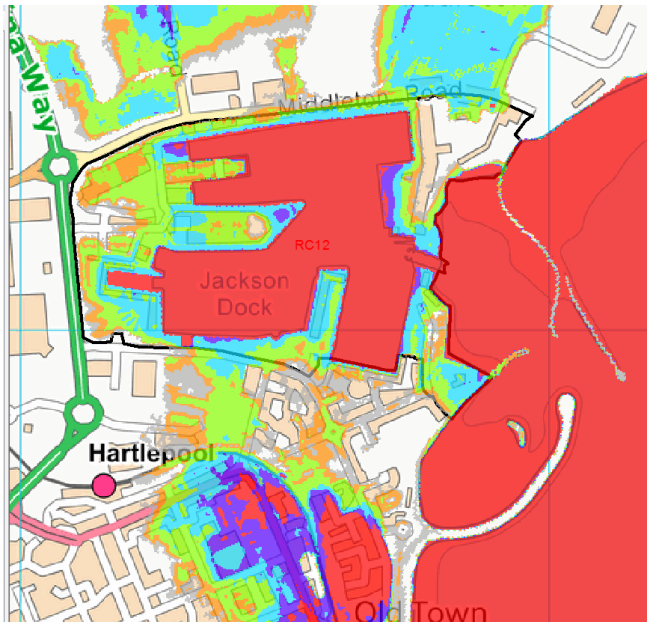
Updated For Climate Change

Depth 0.5% AEP Climate Change Still water extents flooding merged with current day wave overtopping



Hartlepool Flood Mapping & FWI Study Model 2012

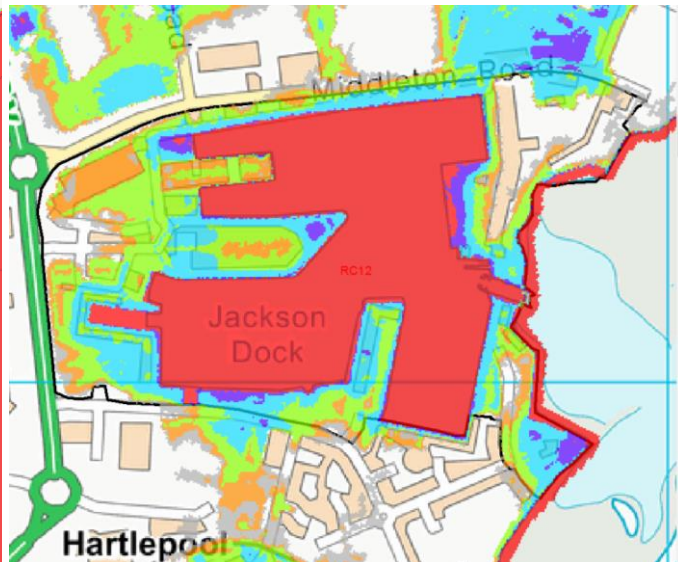
Updated for Climate Change



Hartlepool FRM Study (Fluvial and Tidal) 2008

Updated For Climate Change

Depth 0.1% AEP Climate Change Still water extents flooding merged with current day wave overtopping



Hartlepool Flood Mapping & FWI Study Model 2012

Updated for Climate Change

Hazard 0.5% AEP Climate Change

As flooding related to Wave Overtopping-Similar to current Day Flood Zone 2

Hazard 0.1% AEP Climate Change

Data Not Available - Refer to report for discussion



NOTE TO FILE

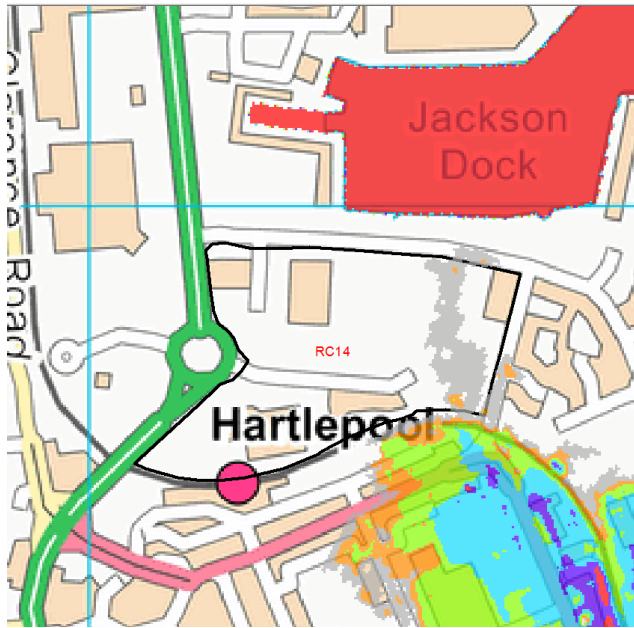
JBA Project Code 2017s5849
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Author David Barton. Reviewed: Howard Keeble
Subject Designation Area – Modelled Flood Depths & Hazard Rating



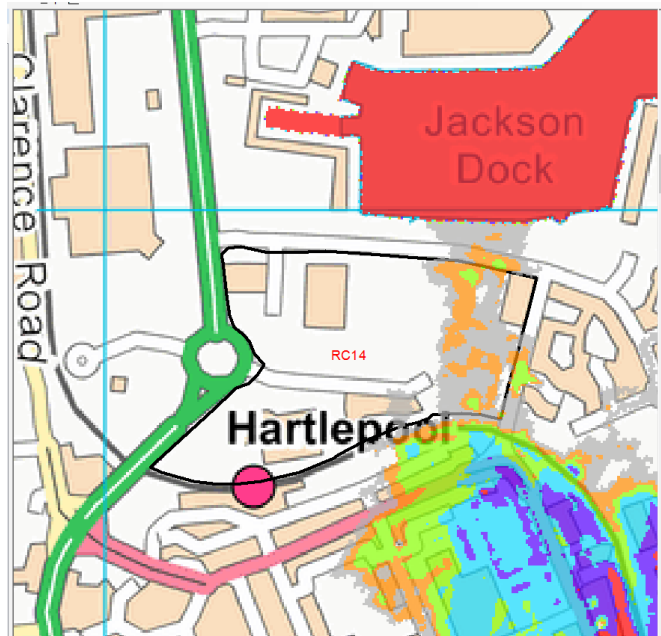
RC14 Trincomalee Wharf

Current Day

Hartlepool Flood Mapping & FWI Study Model 2012



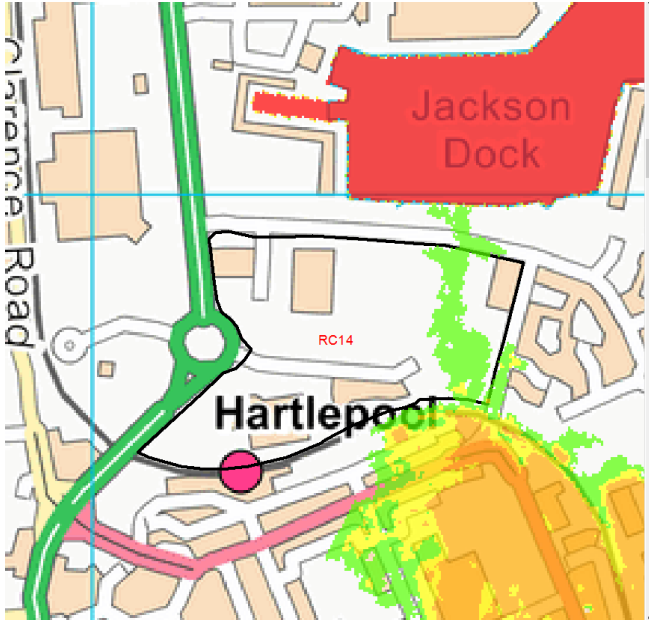
Depth 0.5% AEP Current Day



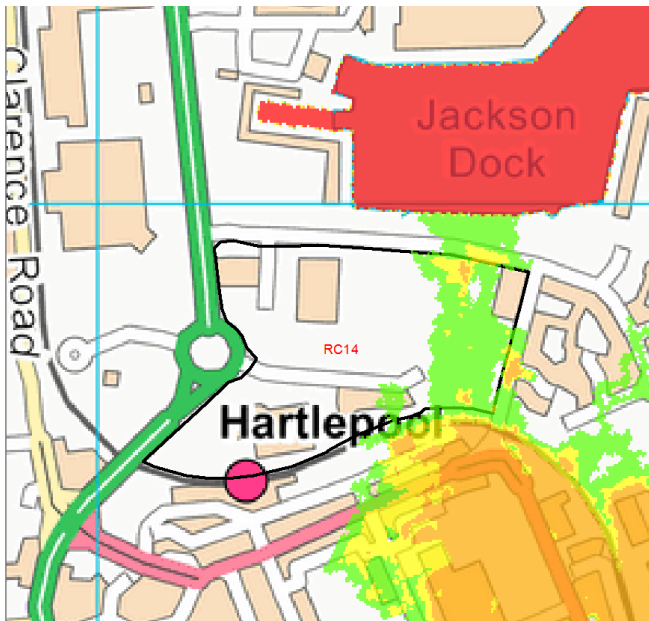
Depth 0.1% AEP Current Day

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Hazard 0.5% AEP Current Day



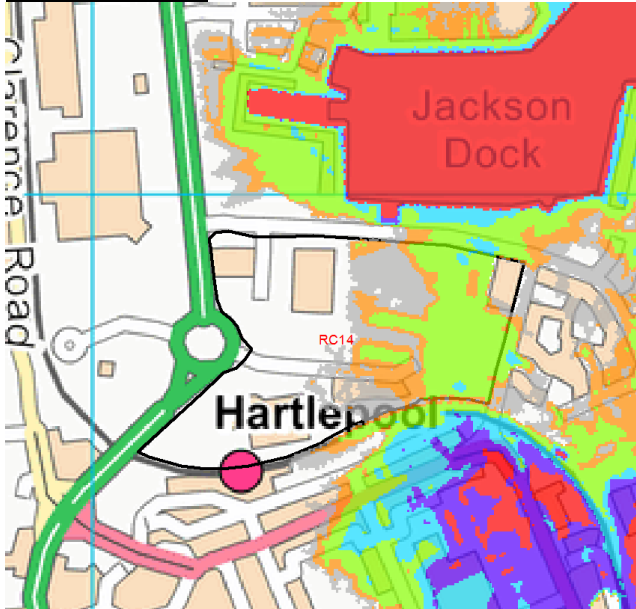
Hazard 0.1% AEP Current Day

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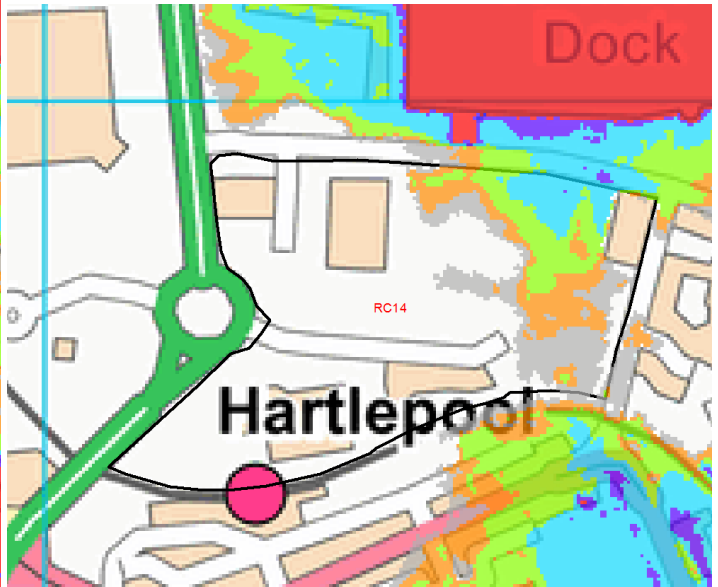


Climate Change

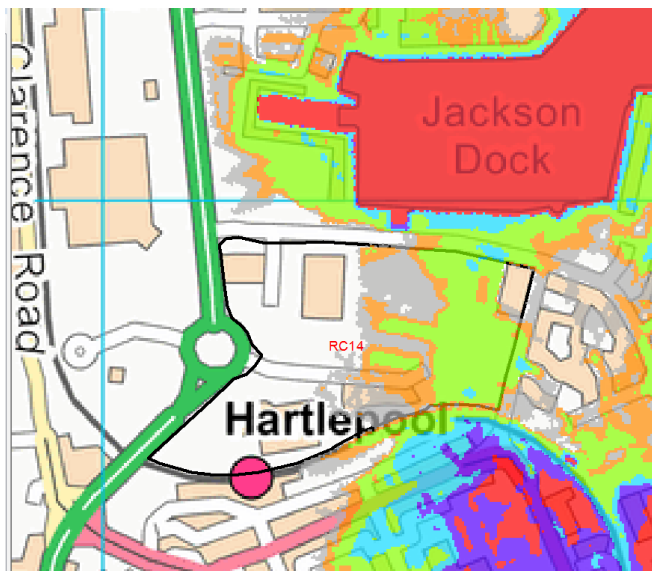


Hartlepool FRM Study (Fluvial and Tidal) 2008
 Updated For Climate Change

Depth 0.5% AEP Climate Change Still water extents flooding merged with current day wave overtopping extents.

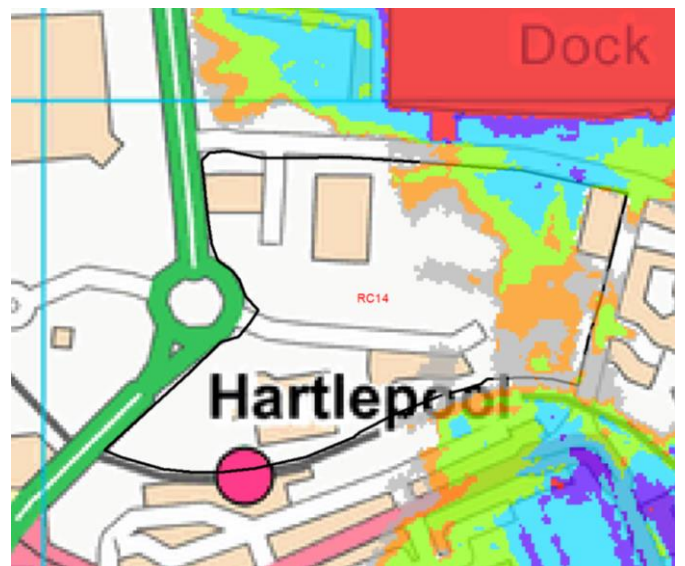


Hartlepool Flood Mapping & FWI Study Model 2012
 Updated for Climate Change



Hartlepool FRM Study (Fluvial and Tidal) 2008
 Updated For Climate Change

Depth 0.1% AEP Climate Change Still water extents flooding merged with current day wave overtopping extents.



Hartlepool Flood Mapping & FWI Study Model 2012
 Updated for Climate Change

Hazard 0.5% AEP Climate Change
 Data Not Available - Refer to report for discussion

Hazard 0.1% AEP Climate Change
 Data Not Available - Refer to report for discussion



NOTE TO FILE

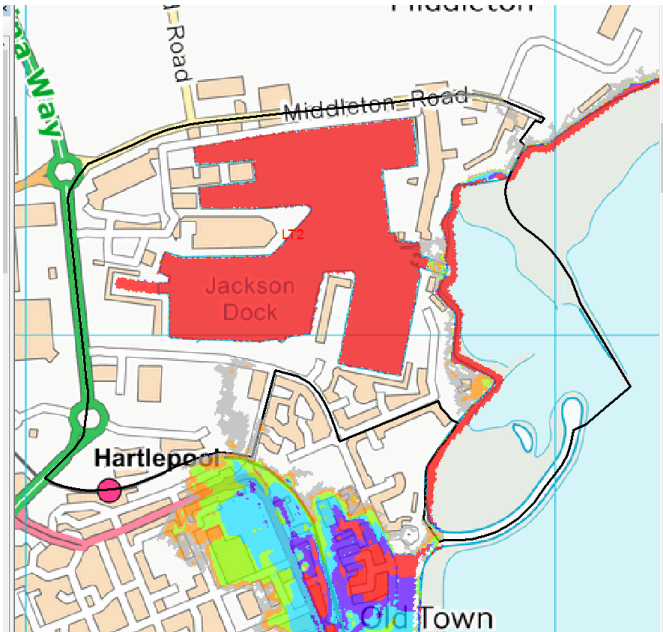
JBA Project Code 2017s5849
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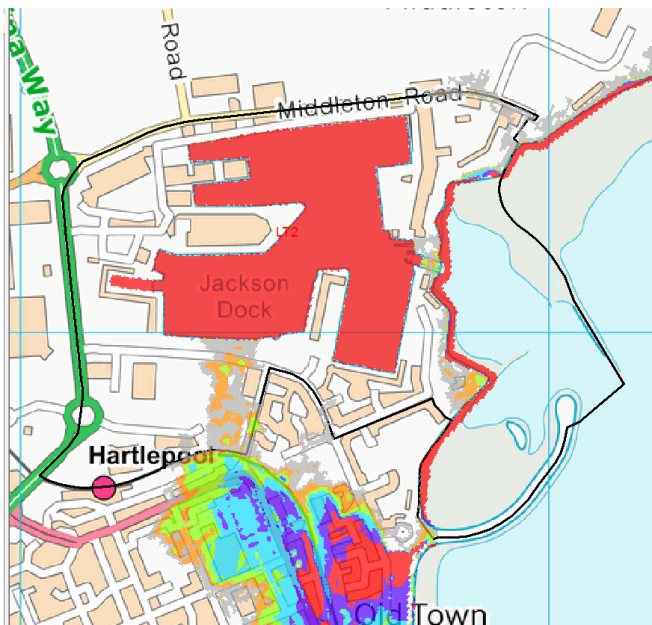
LT2 The Marina

Current Day

Hartlepool Flood Mapping & FWI Study Model 2012



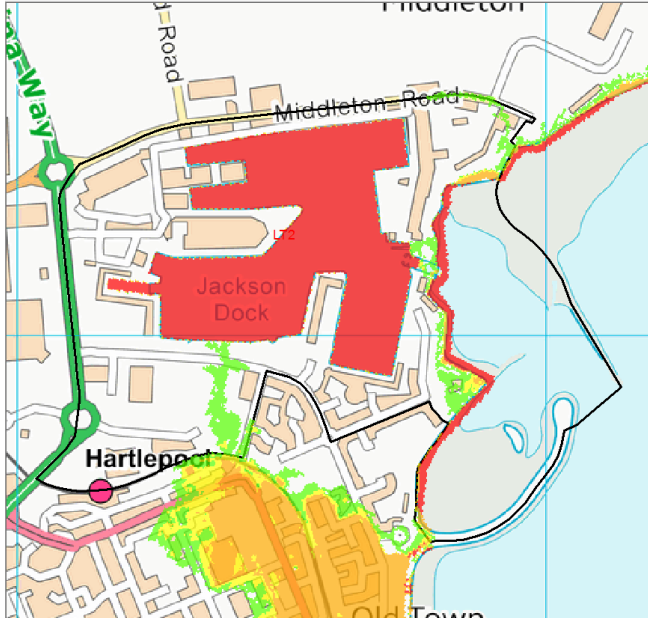
Depth 0.5% AEP Current Day



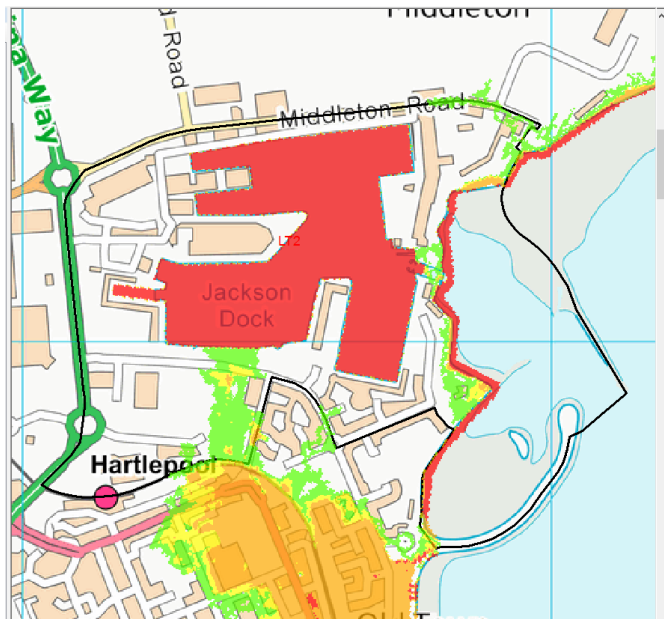
Depth 0.1% AEP Current Day

NOTE TO FILE

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Contract Hartlepool Borough Council Local Plan Potential Sites Level 2
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Client Hartlepool Borough Council
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Hazard 0.5% AEP Current Day



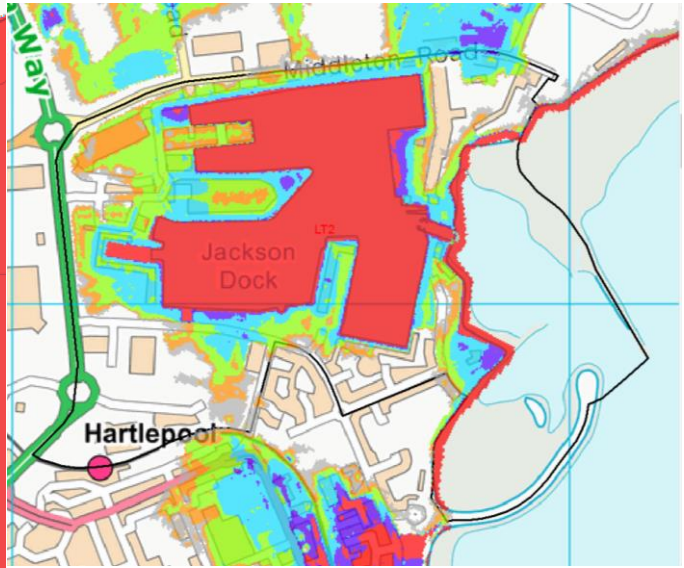
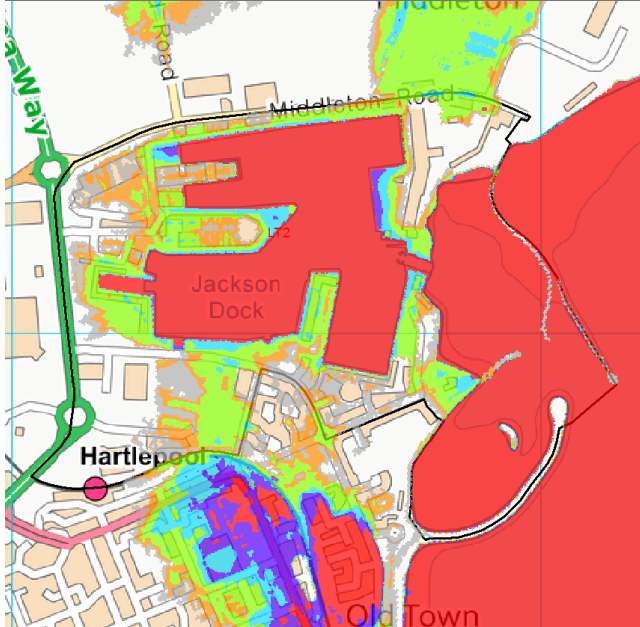
Hazard 0.1% AEP Current Day

NOTE TO FILE

JBA Project Code 2017s5849
 Contract Hartlepool Borough Council Local Plan Potential Sites Level 2 Strategic Flood Risk Assessment – Site Screening
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Climate Change



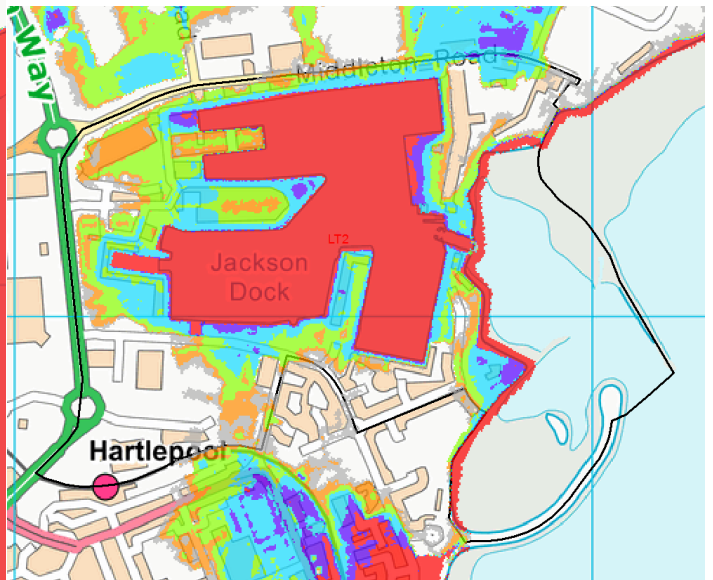
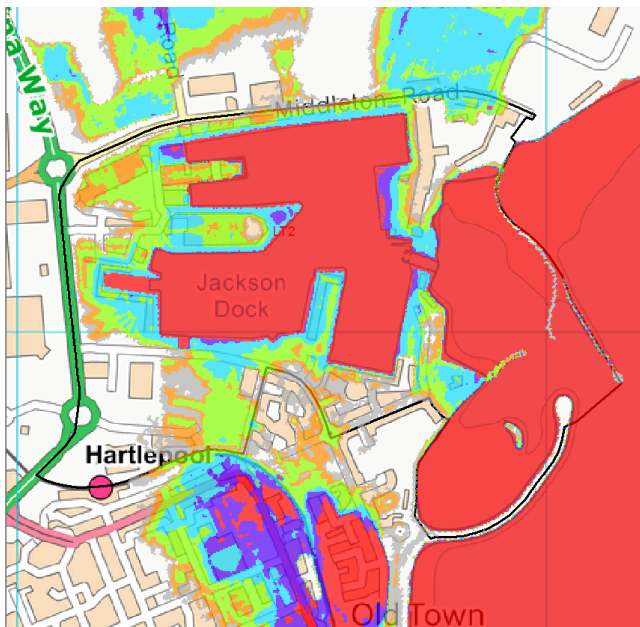
Hartlepool FRM Study (Fluvial and Tidal) 2008

Updated For Climate Change

Depth 0.5% AEP Climate Change Still water extents flooding merged with current day wave overtopping.

Hartlepool Flood Mapping & FWI Study Model 2012

Updated for Climate Change



Hartlepool FRM Study (Fluvial and Tidal) 2008

Updated For Climate Change

Depth 0.1% AEP Climate Change Still water extents flooding merged with current day wave overtopping.

Hartlepool Flood Mapping & FWI Study Model 2012

Updated for Climate Change

Hazard 0.5% AEP Climate Change
 Data Not Available - Refer to report for discussion
 Hazard 0.1% AEP Climate Change
 Data Not Available - Refer to report for discussion



NOTE TO FILE

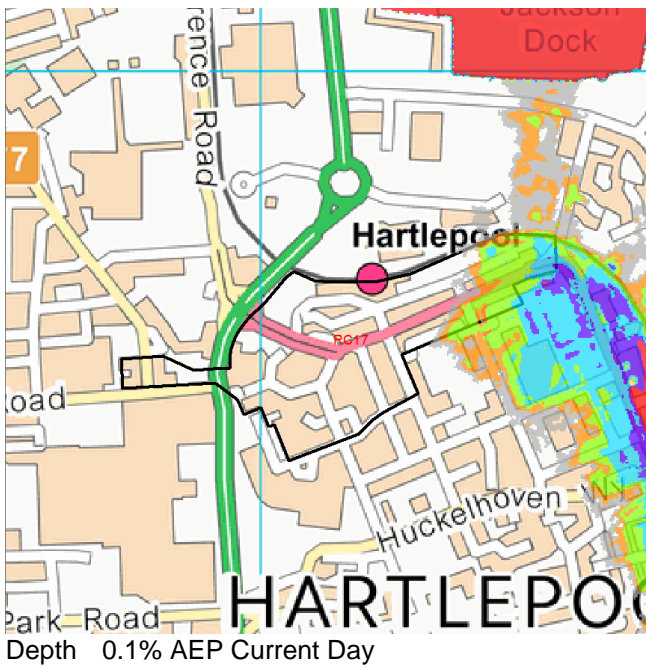
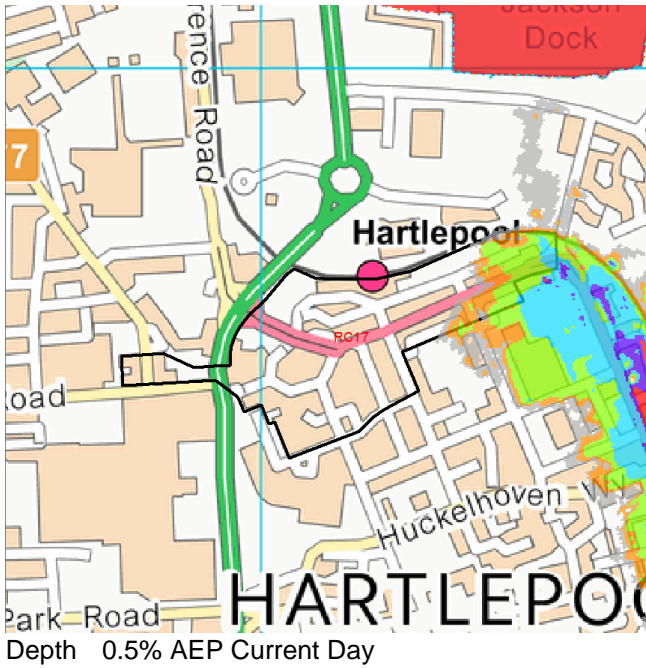
JBA Project Code 2017s5849
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Day, Date and Time V3.0 03/08/17
Author David Barton. Reviewed: Howard Keeble
Subject Designation Area – Modelled Flood Depths & Hazard Rating



RC17 Late Night Uses Areas

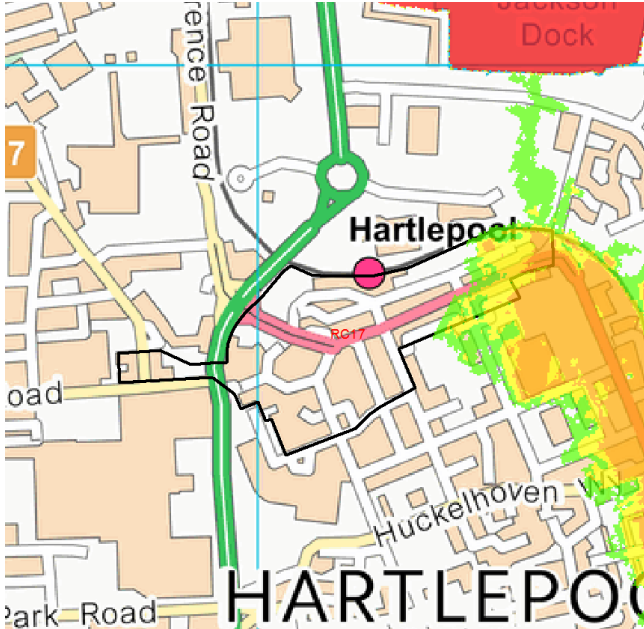
Current Day

Hartlepool Flood Mapping & FWI Study Model 2012

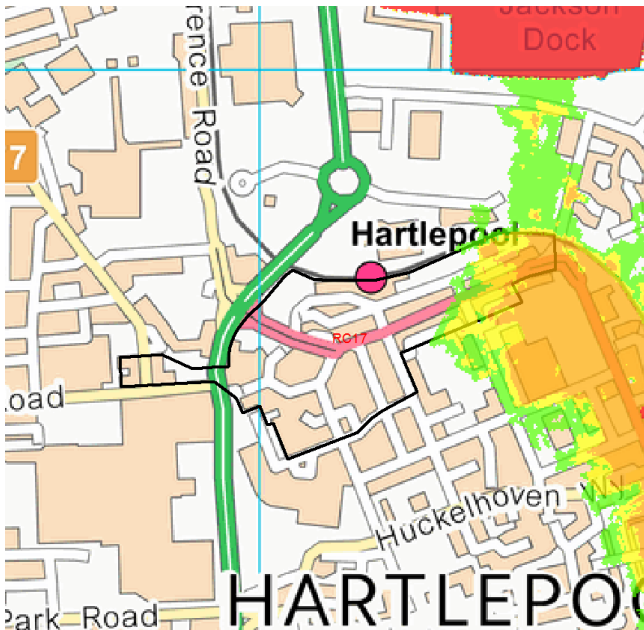


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Hazard 0.5% AEP Current Day



Hazard 0.1% AEP Current Day

NOTE TO FILE



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Climate Change

Depth 0.5% AEP Climate Change
Flooding related to Wave Overtopping-Similar to current Day Flood Zone 2.

Depth 0.1% AEP Climate Change
Data Not Available - Refer to report for discussion

Hazard 0.5% AEP Climate Change
Flooding related to Wave Overtopping-Similar to current Day Flood Zone 2.

Hazard 0.1% AEP Climate Change
Data Not Available - Refer to report for discussion

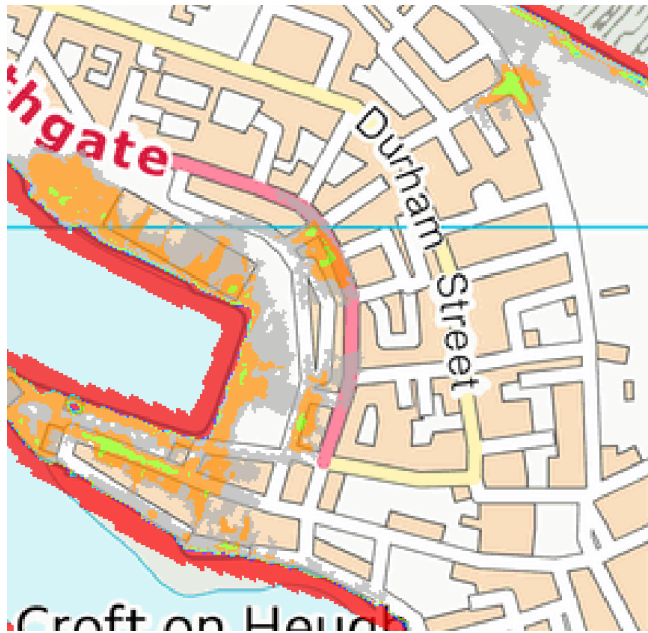
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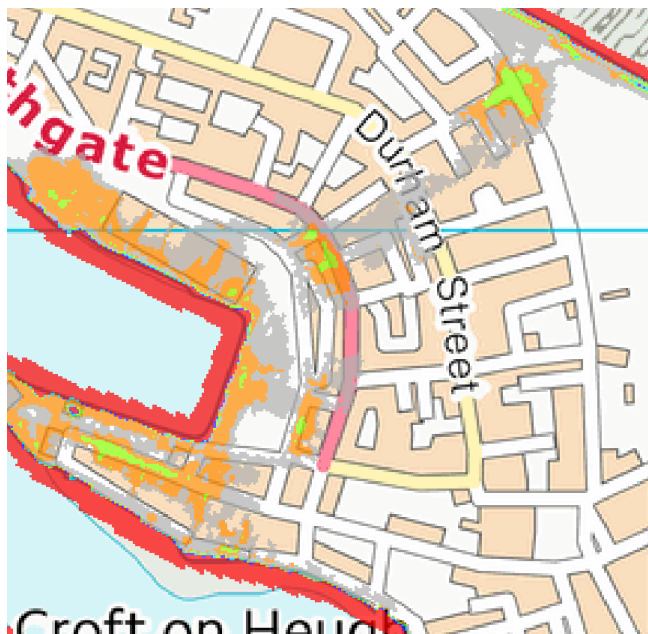


RC16 Northgate / Union Street Local Centre

Current Day
Hartlepool Flood Mapping & FWI Study Model 2012



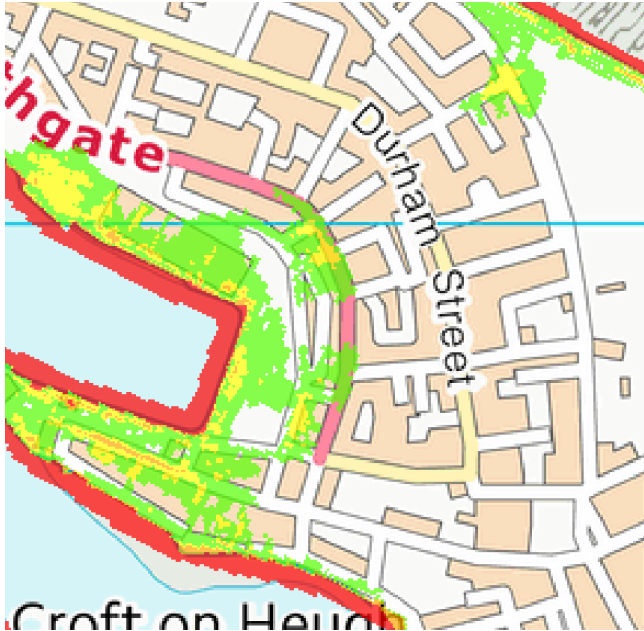
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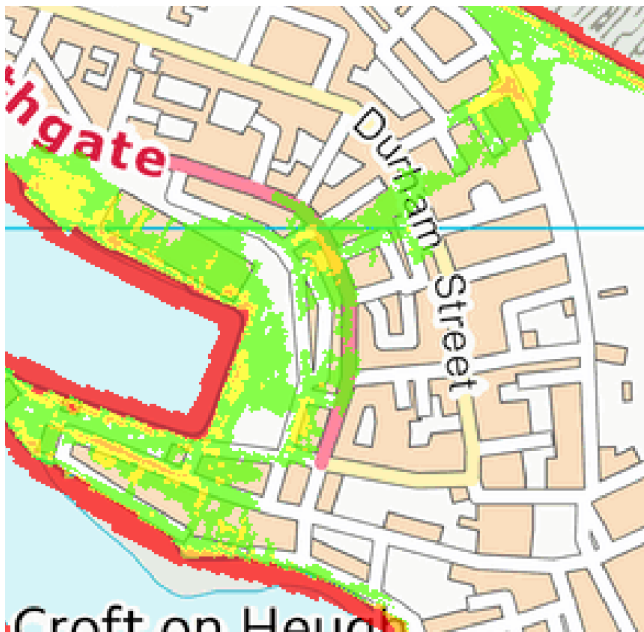
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NOTE TO FILE

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Hazard 0.5% AEP Current Day



Hazard 0.1% AEP Current Day

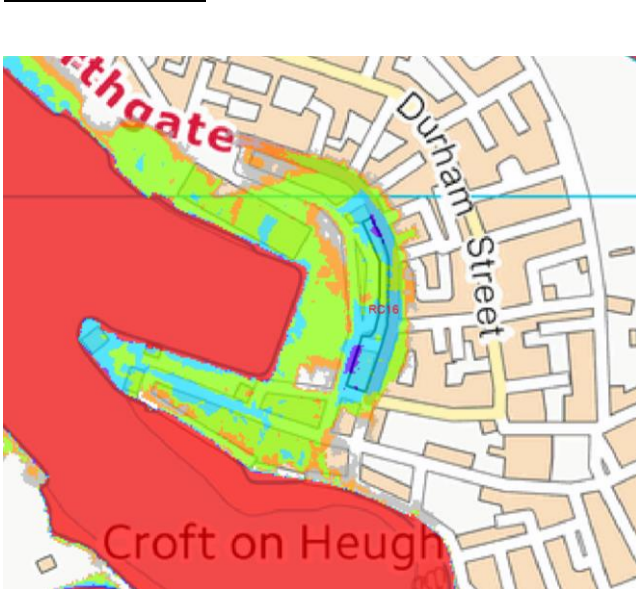


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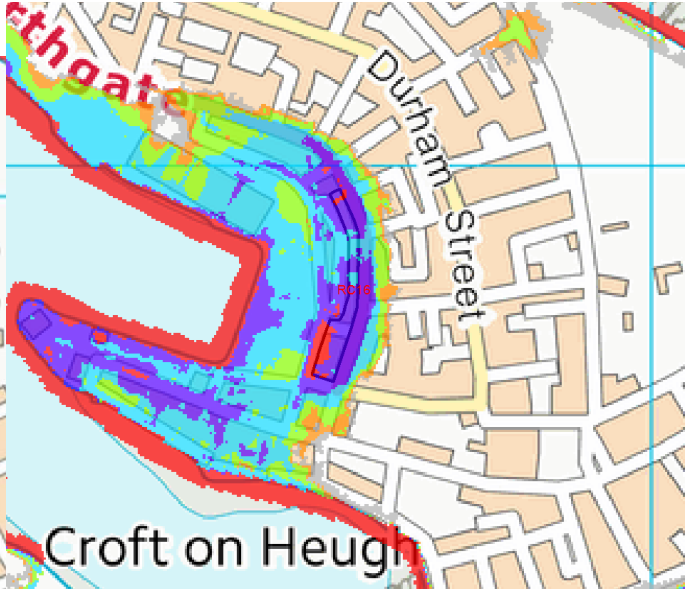
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Climate Change

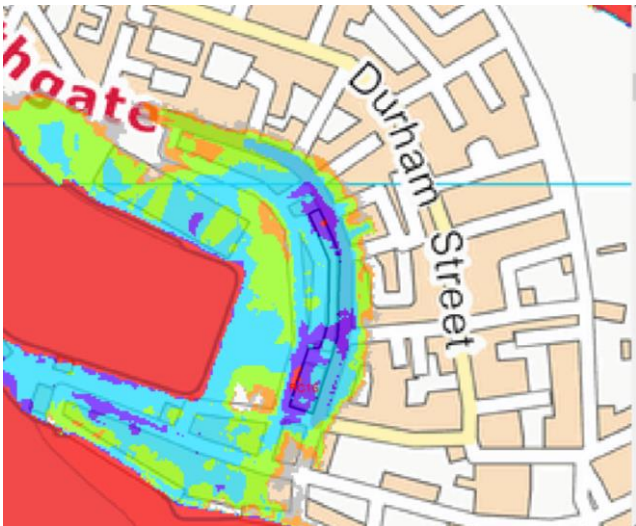


Hartlepool FRM Study (Fluvial and Tidal) 2008
 Updated For Climate Change
 Depth 0.5% AEP Climate Change Still water extents

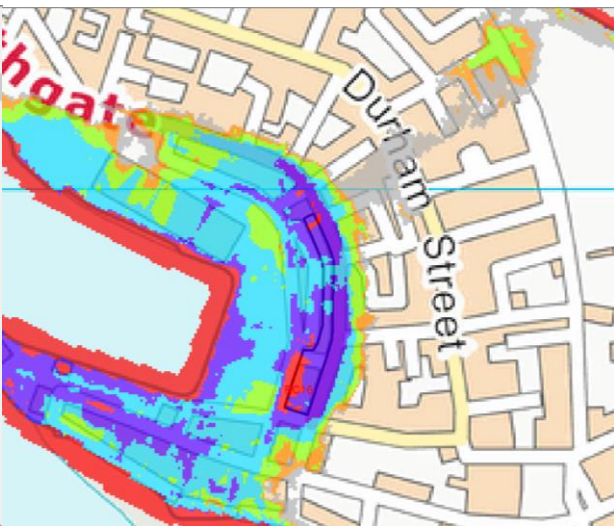


Hartlepool Flood Mapping & FWI Study Model 2012
 Updated for Climate Change

Depth 0.5% AEP Climate Change Still water extents flooding merged with current day wave overtopping extents.



Hartlepool FRM Study (Fluvial and Tidal) 2008
 Updated For Climate Change
 Depth 0.1% AEP Climate Change



Hartlepool Flood Mapping & FWI Study Model 2012
 Updated for Climate Change

Hazard 0.5% AEP Climate Change
 Data Not Available - Refer to report for discussion

Hazard 0.1% AEP Climate Change
 Data Not Available - Refer to report for discussion

NOTE TO FILE

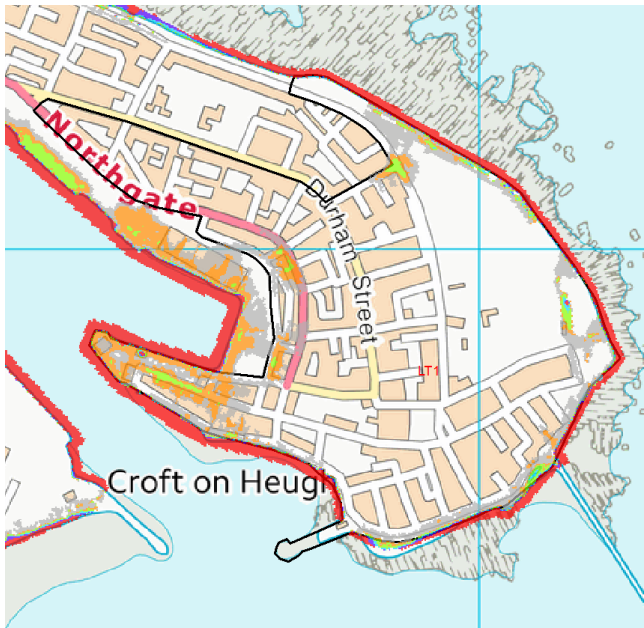
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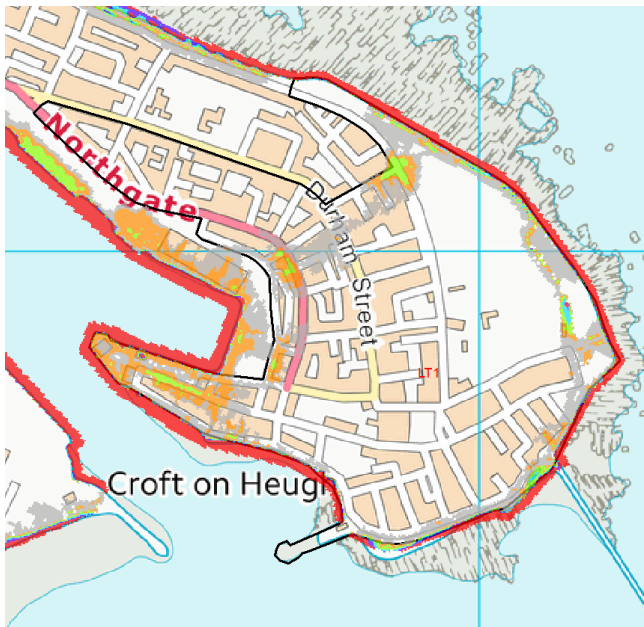
LT1 The Headland

Current Day

Hartlepool Flood Mapping & FWI Study Model 2012



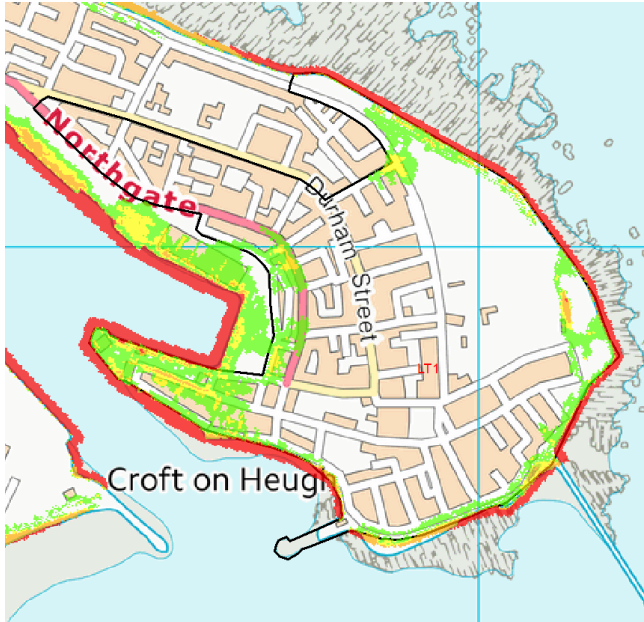
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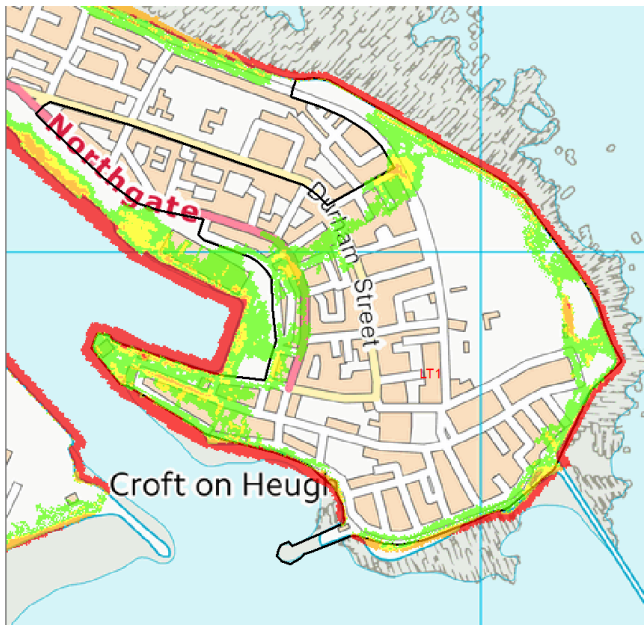
Depth 0.1% AEP Current Day

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Hazard 0.5% AEP Current Day



Hazard 0.1% AEP Current Day

NOTE TO FILE

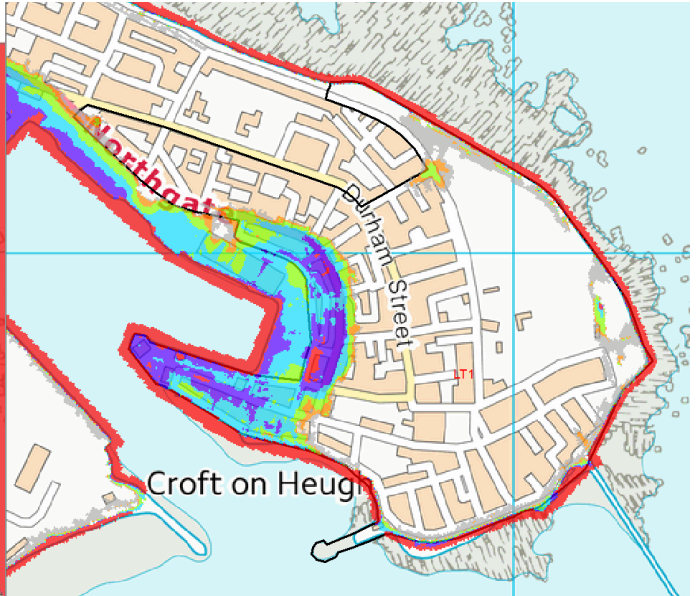
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Climate Change

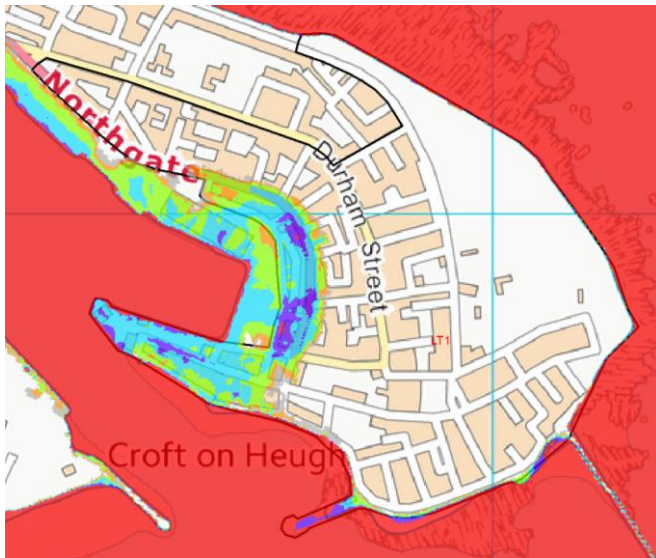


Hartlepool FRM Study (Fluvial and Tidal) 2008
 Updated For Climate Change

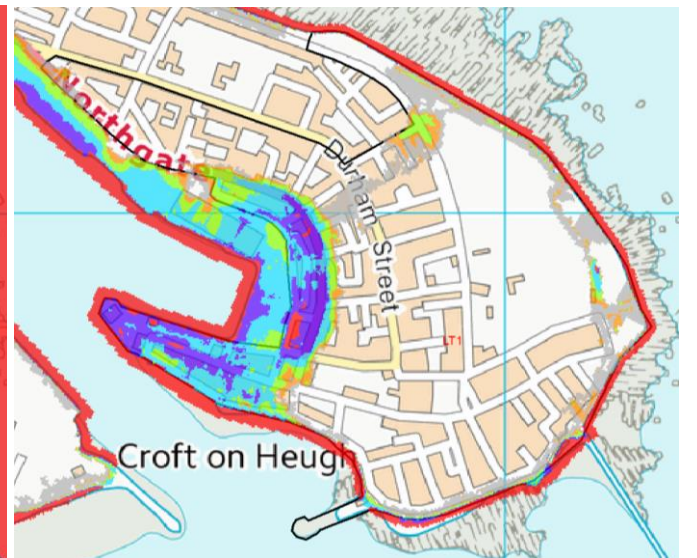


Hartlepool Flood Mapping & FWI Study Model 2012
 Updated for Climate Change

Depth 0.5% AEP Climate Change Still water extents flooding merged with current day wave overtopping extents.



Hartlepool FRM Study (Fluvial and Tidal) 2008
 Updated For Climate Change



Hartlepool Flood Mapping & FWI Study Model 2012
 Updated for Climate Change

Depth 0.1% AEP Climate Change Still water extents flooding merged with current day wave overtopping

Hazard 0.5% AEP Climate Change
 Data Not Available - Refer to report for discussion

Hazard 0.1% AEP Climate Change
 Data Not Available - Refer to report for discussion

NOTE TO FILE

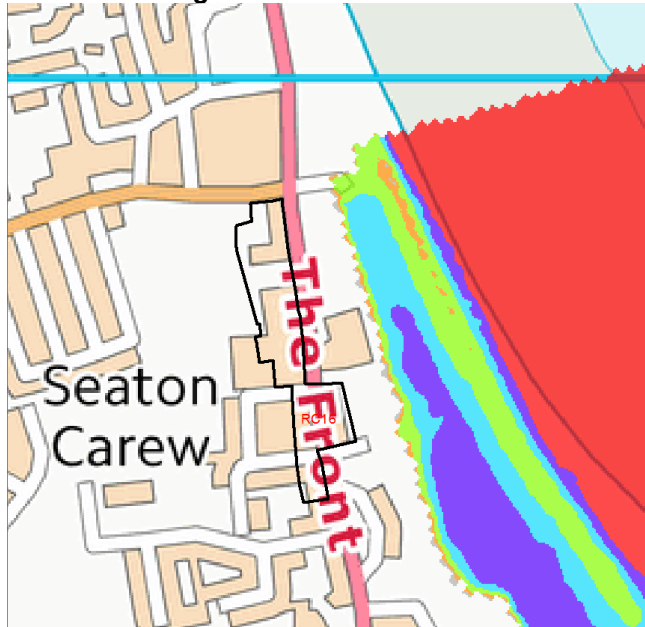
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Author David Barton. Reviewed: Howard Keeble
Subject Designation Area – Modelled Flood Depths & Hazard Rating



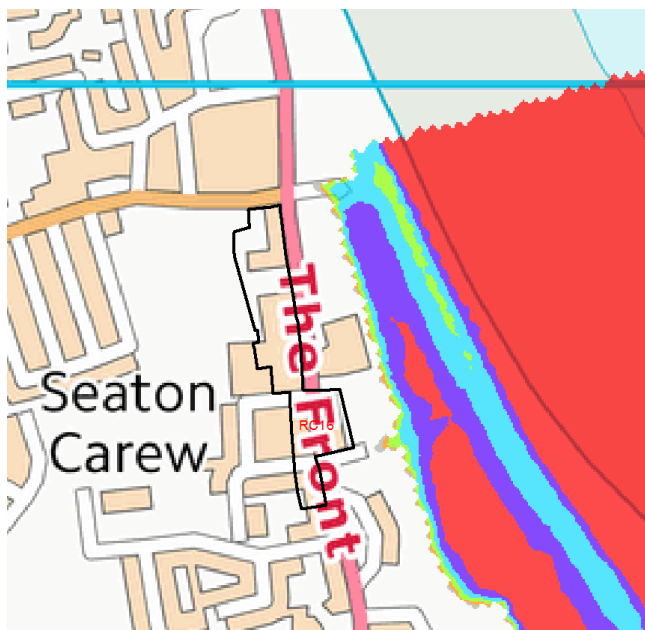
RC16 Seaton Front Local Centre

Current Day

Tidal Tees Integrated Flood Model 2011



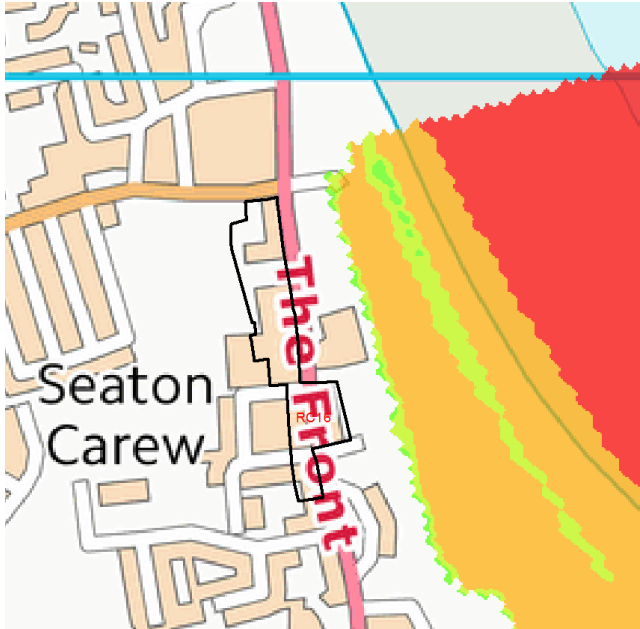
Depth 0.5% AEP Current Day



Depth 0.1% AEP Current Day

NOTE TO FILE

JBA Project Code 2017s5849
Contract Hartlepool Borough Council Local Plan Potential Sites Level 2
Strategic Flood Risk Assessment – Site Screening
Client Hartlepool Borough Council
Day, Date and Time V3.0 03/08/17
Author David Barton. Reviewed: Howard Keeble
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Hazard 0.5% AEP Current Day



Hazard 0.1% AEP Current Day

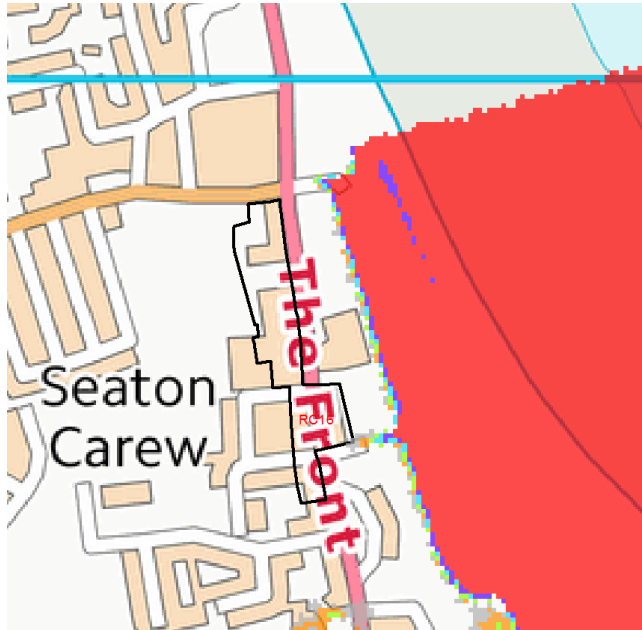
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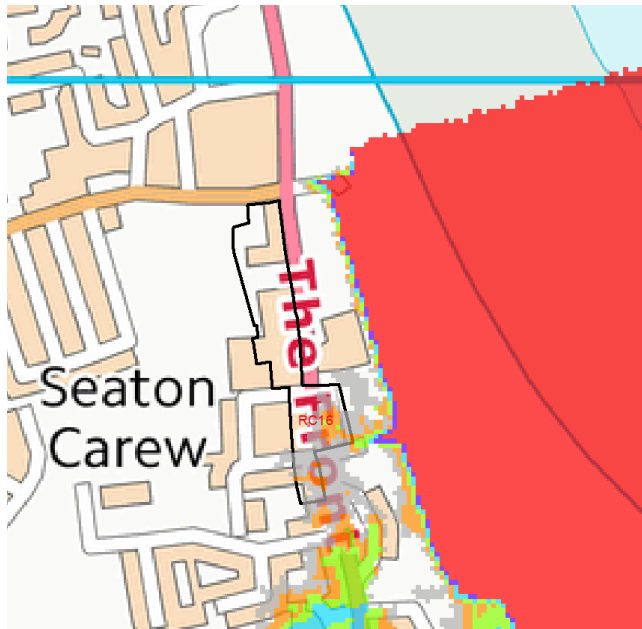


Climate Change

Tidal Tees Integrated Flood Model 2015 – Updated for climate change



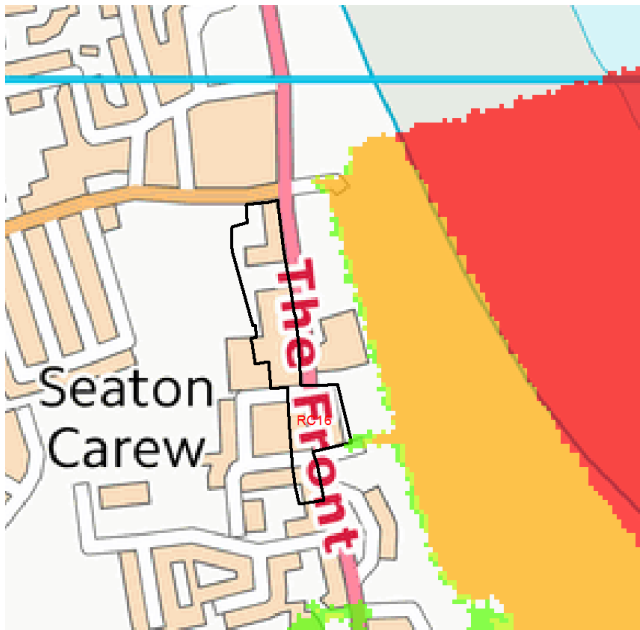
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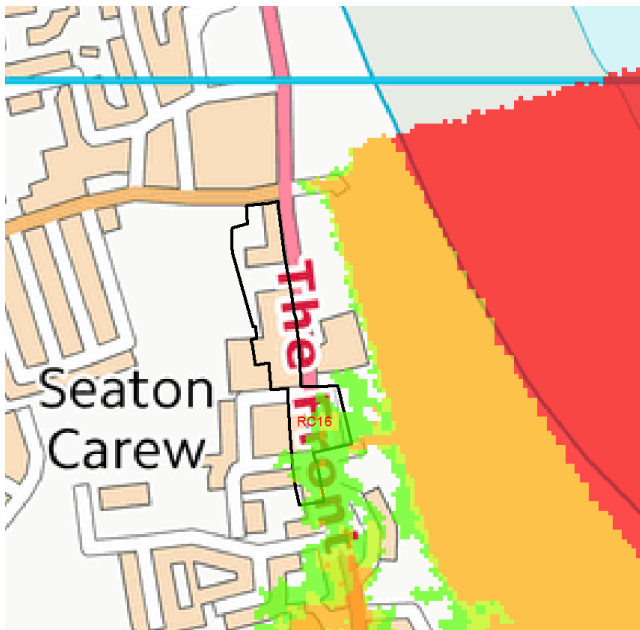
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Hazard 0.5% AEP Climate Change



Hazard 0.1% AEP Climate Change

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