

## Sandwell Level 2 Strategic Flood Risk Assessment (SFRA)

### Appendix A.2 – SEC1-7 Bilport Lane

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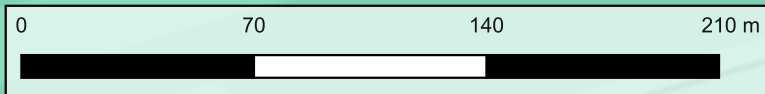
### Bedrock Geology

#### Legend

 Site Boundary

#### Bedrock Geology

-  Mafic igneous rock
-  Mudstone, siltstone and sandstone
-  Mudstone, siltstone, sandstone, coal, ironstone and ferricrete
-  Sandstone and conglomerate, interbedded
-  Siltstone and sandstone with subordinate mudstone



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### Flood Alert and Warning Areas

#### Legend

-  Site Boundary
-  Flood Warning Area
-  Flood Alert Area



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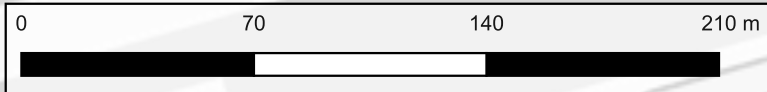
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### Flood Map for Planning

#### Legend

-  Site Boundary
-  Flood Zone 3
-  Flood Zone 2

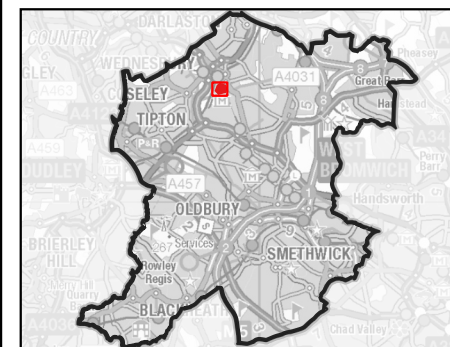


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### Groundwater Emergence

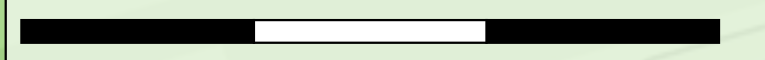
#### Legend

 Site Boundary

#### Groundwater Emergence

-  No Risk
-  Groundwater levels area at least 5m below the ground surface.
-  Groundwater levels are between 0.5m and 5m below the ground surface.
-  Groundwater levels are between 0.025m and 0.5m below the ground surface.
-  Groundwater levels are either at or very near (within 0.025m of) the ground surface.

0 70 140 210 m

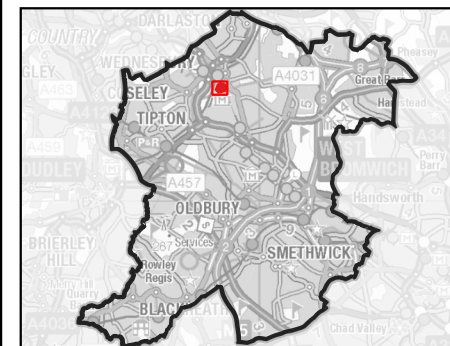


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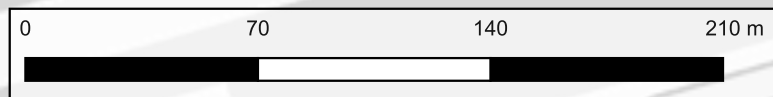
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### Modelled Fluvial plus Climate Change Flood Risk

#### Legend

-  Site Boundary
-  Flood Zone 3b + CC
-  Flood Zone 3a + Central CC

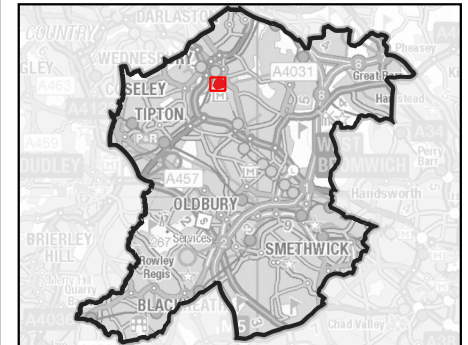


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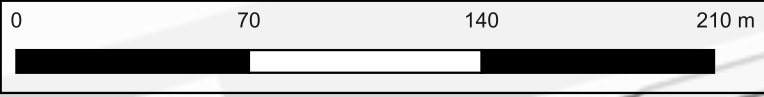
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### Modelled Fluvial Flood Risk

#### Legend

-  Site Boundary
-  Flood Zone 3b
-  Flood Zone 3a
-  Flood Zone 2

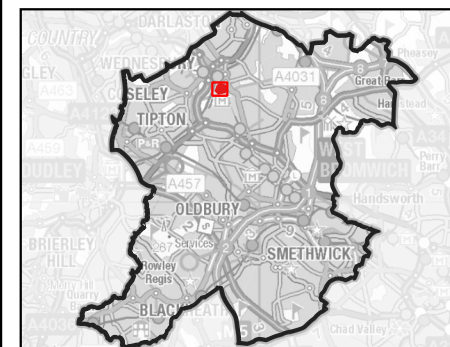


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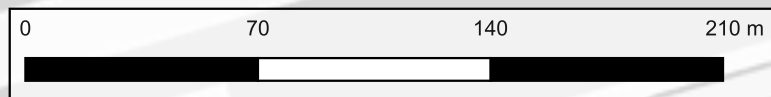
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### Reservoir Flood Extents

#### Legend

-  Site Boundary
-  Fluvial Contribution
-  Dry Day Extent
-  Wet Day Extent



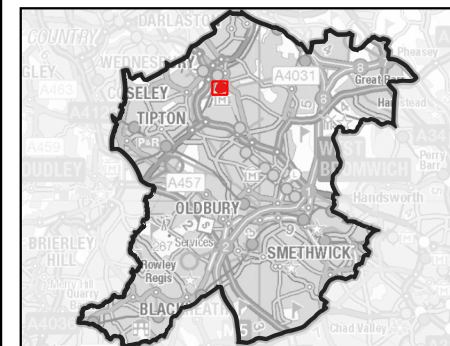
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### Superficial Deposits

#### Legend

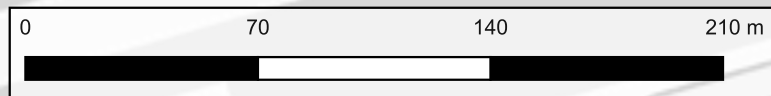
 Site Boundary

#### Superficial Deposits

 Alluvium

 Glacial sand and gravel

 Till

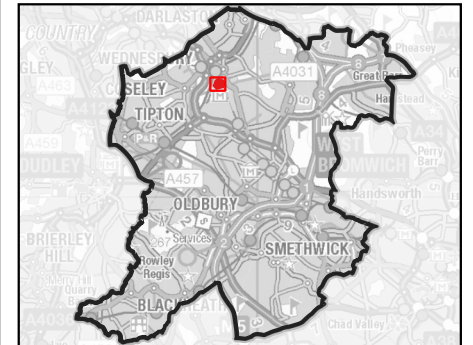


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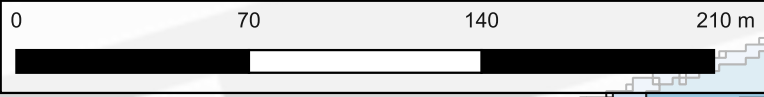
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### Risk of Flooding from Surface Water 0.1% AEP Depth

#### Legend

- Site Boundary
- 0.1% AEP Depth (m)
- < 0.15
- 0.15 - 0.30
- 0.30 - 0.60
- 0.60 - 0.90
- 0.90 - 1.20
- > 1.20



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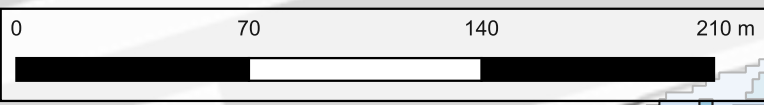
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### Risk of Flooding from Surface Water 1% AEP Depth

#### Legend

- Site Boundary
- 1% AEP Depth (m)
- < 0.15
- 0.15 - 0.30
- 0.30 - 0.60
- 0.60 - 0.90
- 0.90 - 1.20
- > 1.20



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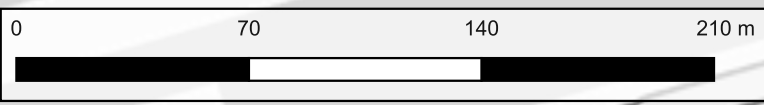
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### Risk of Flooding from Surface Water 3.3% AEP Depth

#### Legend

- Site Boundary
- 3.3% AEP Depth (m)**
- < 0.15
- 0.15 - 0.30
- 0.30 - 0.60
- 0.60 - 0.90
- 0.90 - 1.20
- > 1.20



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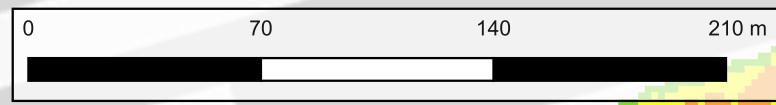
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### Risk of Flooding from Surface Water 0.1% AEP Hazard

#### Legend

-  Site Boundary
- 0.1% AEP Hazard**
-  Low - Caution
-  Danger for some
-  Danger for most
-  Danger for all



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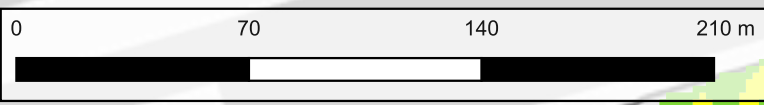
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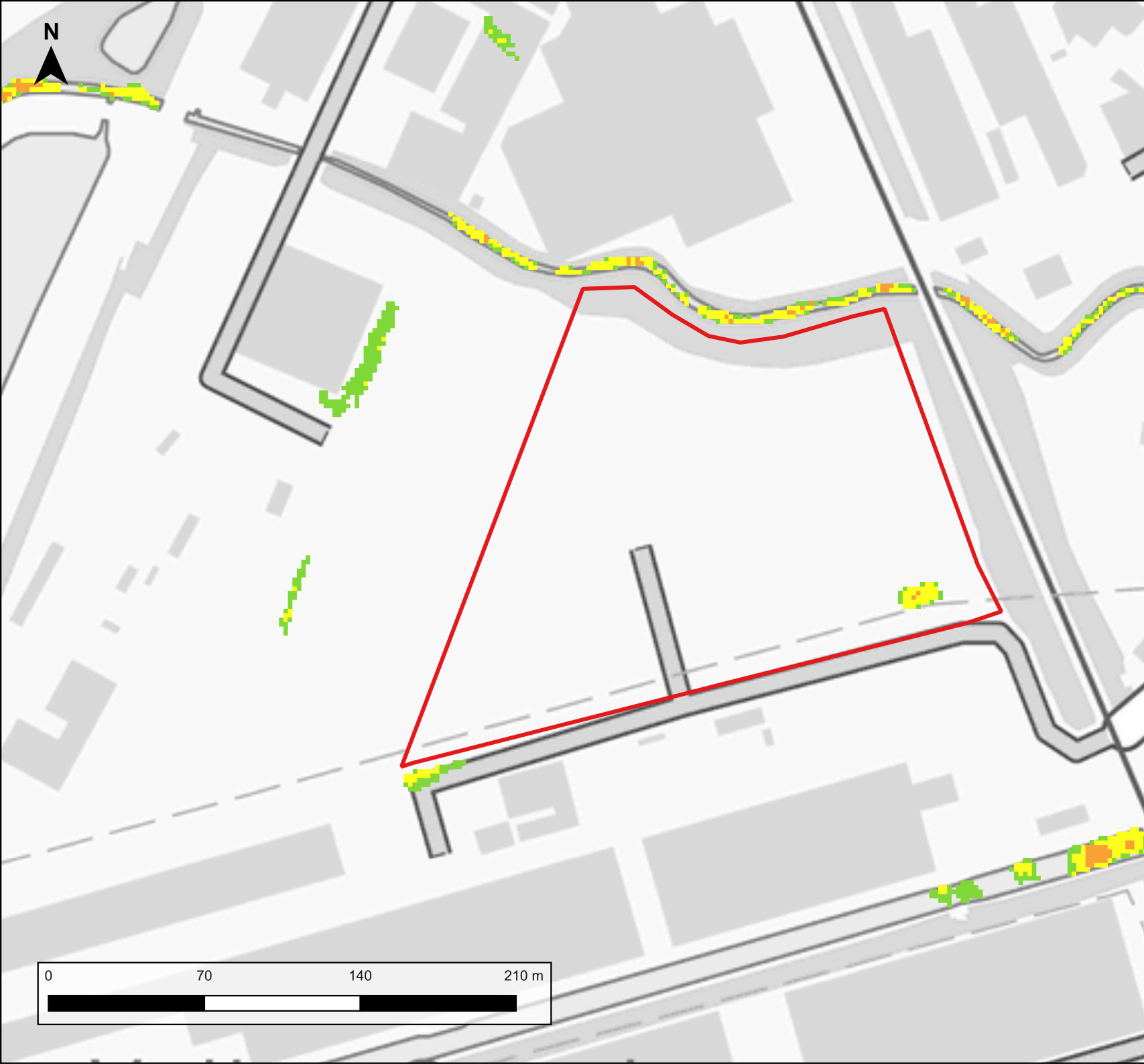
### Risk of Flooding from Surface Water 1% AEP Hazard

#### Legend

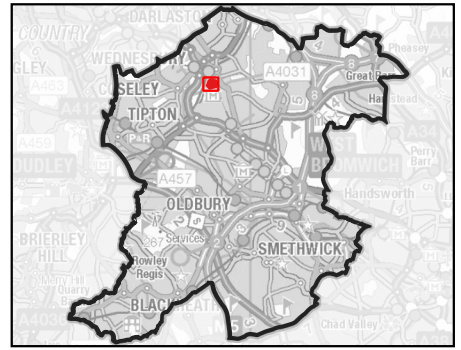
-  Site Boundary
- 1% AEP Hazard**
-  Low - Caution
-  Danger for some
-  Danger for most
-  Danger for all



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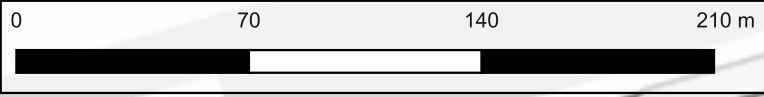
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### Risk of Flooding from Surface Water 3.3% AEP Hazard

#### Legend

-  Site Boundary
- 3.3% AEP Hazard**
-  Low - Caution
-  Danger for some
-  Danger for most
-  Danger for all



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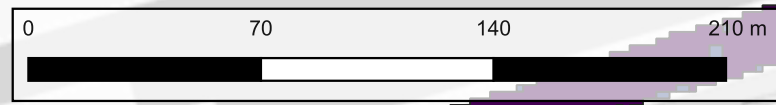


### Risk of Flooding from Surface Water 0.1% AEP Velocity

#### Legend

- Site Boundary
- 0.1% AEP Velocity (m/s)
  - < 0.25
  - 0.25 - 0.50
  - 0.50 - 1.00
  - 1.00 - 2.00
  - > 2.00

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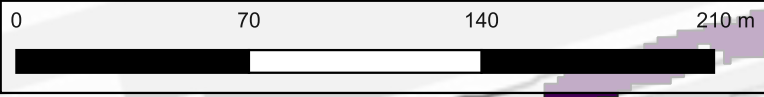
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### Risk of Flooding from Surface Water 1% AEP Velocity

#### Legend

- Site Boundary
- 1% AEP Velocity (m/s)**
- < 0.25
- 0.25 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- > 2.00

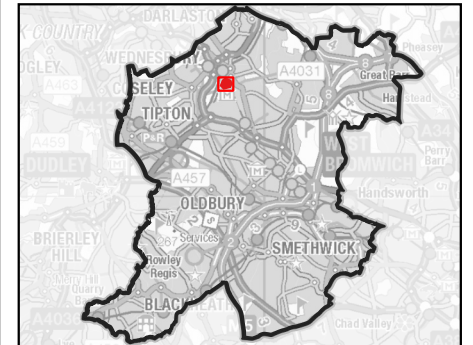


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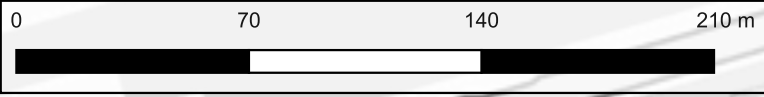
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### Risk of Flooding from Surface Water 3.3% AEP Velocity

#### Legend

- Site Boundary
- 3.3% AEP Velocity (m/s)**
- < 0.25
- 0.25 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- > 2.00

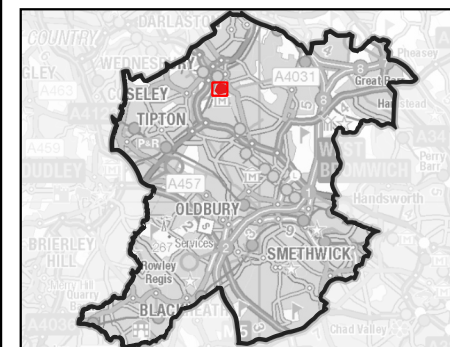


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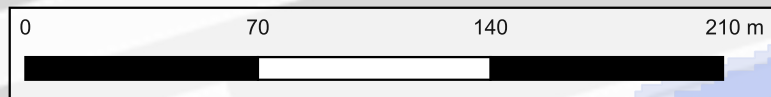
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### Surface Water Extents

#### Legend

-  Site Boundary
-  RoFSW 30 Year Extent (3.3% AEP)
-  RoFSW 100 Year Extent (1.0% AEP)
-  RoFSW 1000 Year Extent (0.1% AEP)

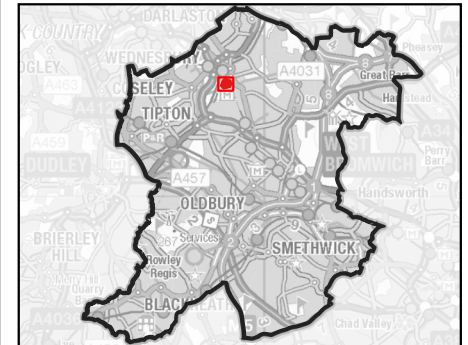


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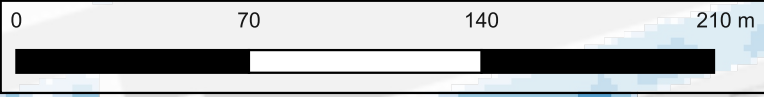
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### Risk of Flooding from Surface Water 0.1% + CC Depth

#### Legend

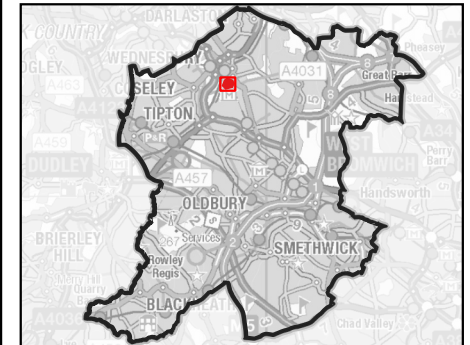
-  Site Boundary
- 0.1% + Upper End CC  
Depth (m)
  -  < 0.15
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  -  0.30 - 0.60
  -  0.60 - 0.90
  -  0.90 - 1.20
  -  > 1.20



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### Risk of Flooding from Surface Water 1% + CC Depth

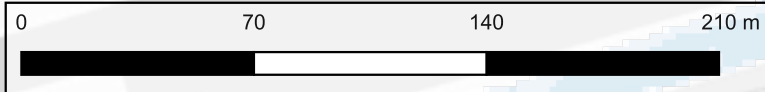
#### Legend

Site Boundary

1% + Upper End CC  
Depth (m)

- < 0.15
- 0.15 - 0.30
- 0.30 - 0.60
- 0.60 - 0.90
- 0.90 - 1.20
- > 1.20

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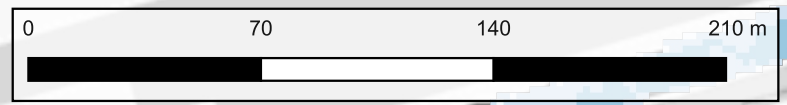
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### Risk of Flooding from Surface Water 3.3% + CC Depth

#### Legend

- Site Boundary
- 3.3% + Upper End CC  
Depth (m)
  - < 0.15
  - 0.15 - 0.30
  - 0.30 - 0.60
  - 0.60 - 0.90
  - 0.90 - 1.20
  - > 1.20



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### Risk of Flooding from Surface Water 0.1% + CC Hazard

#### Legend

-  Site Boundary
- 0.1% + Upper End CC Hazard
-  Low - Caution
-  Danger for some
-  Danger for most
-  Danger for all



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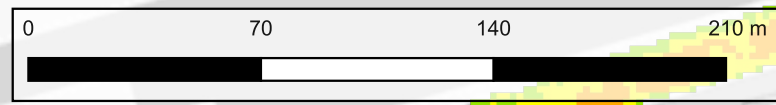
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### Risk of Flooding from Surface Water 1% + CC Hazard

#### Legend

-  Site Boundary
- 1% + Upper End CC Hazard
-  Low - Caution
-  Danger for some
-  Danger for most
-  Danger for all



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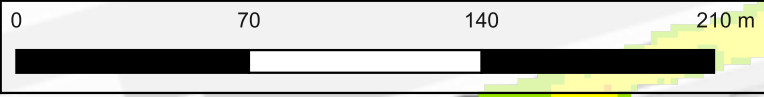
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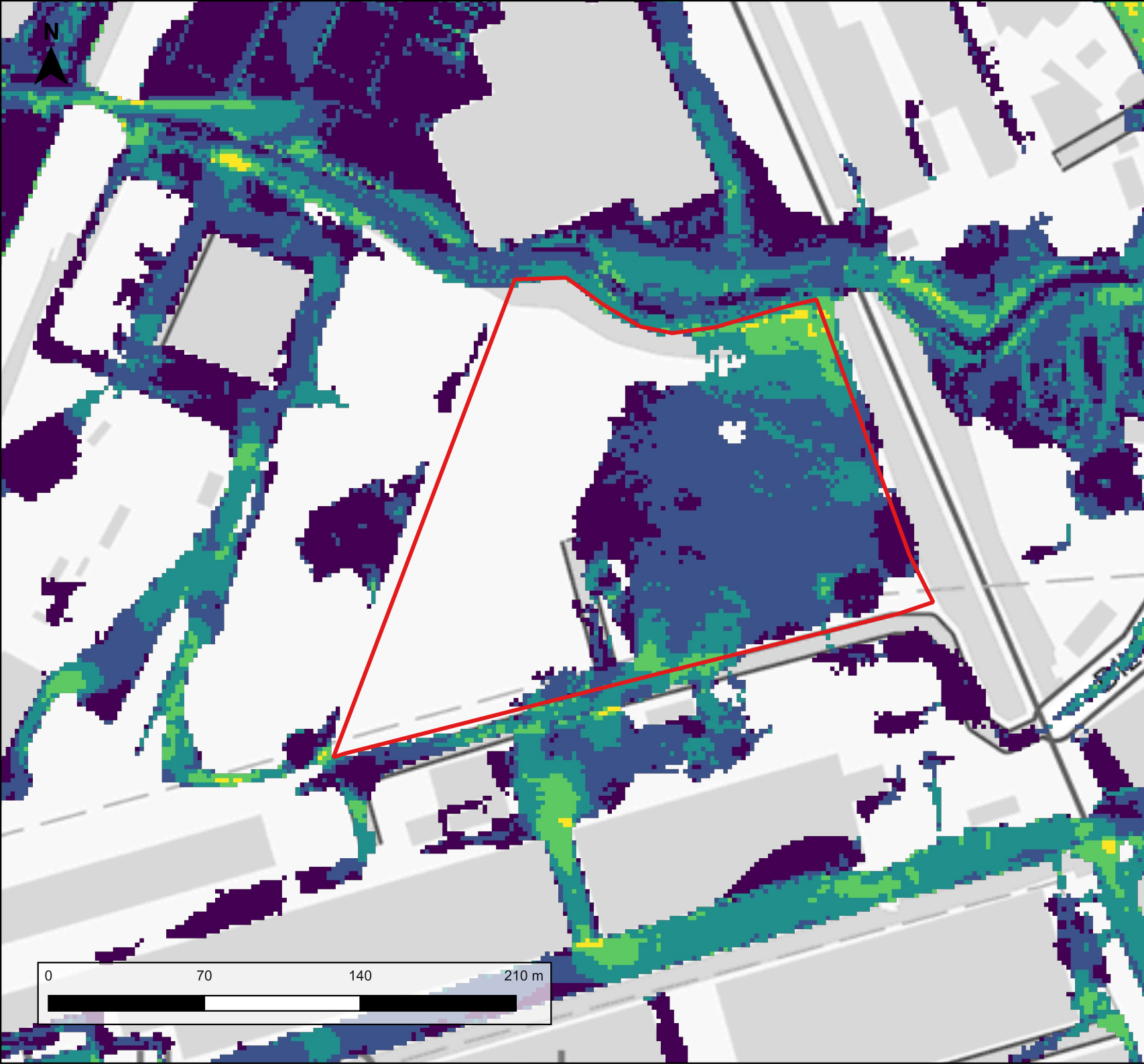
### Risk of Flooding from Surface Water 3.3% + CC Hazard

#### Legend

-  Site Boundary
- 3.3% + Upper End CC Hazard
-  Low - Caution
-  Danger for some
-  Danger for most
-  Danger for all



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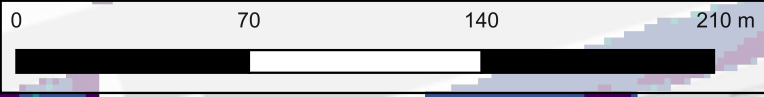
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Risk of Flooding from  
 Surface Water 0.1% + CC  
 Velocity

Legend

- Site Boundary
- 0.1% + Upper End CC  
 Velocity (m/s)
- < 0.25
- 0.25 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- > 2.00



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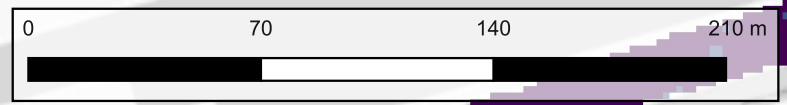
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### Risk of Flooding from Surface Water 1% + CC Velocity

#### Legend

- Site Boundary
- 1% + Upper End CC Velocity (m/s)
  - < 0.25
  - 0.25 - 0.50
  - 0.50 - 1.00
  - 1.00 - 2.00
  - > 2.00









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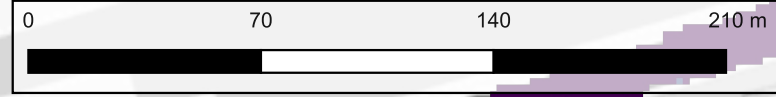


### Risk of Flooding from Surface Water 3.3% + CC Velocity

#### Legend

-  Site Boundary
- 3.3% + Upper End CC Velocity (m/s)
  -  < 0.25
  -  0.25 - 0.50
  -  0.50 - 1.00
  -  1.00 - 2.00
  -  > 2.00

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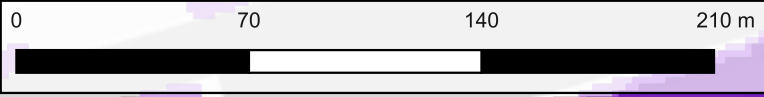
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### Risk of flooding from Surface Water plus Climate Change Extents

#### Legend

-  Site Boundary
-  3.3% + Upper End CC
-  1.0% + Upper End CC
-  0.1% + Upper End CC



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