

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

### Appendix A.2 – EMP2-3 Roway Lane

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21. RoFSW +CC 3.3% AEP Depth
22. RoFSW +CC 0.1% AEP Hazard
23. RoFSW +CC 1% AEP Hazard
24. RoFSW +CC 3.3% AEP Hazard
25. RoFSW +CC 0.1% AEP Velocity
26. RoFSW +CC 1% AEP Velocity
27. RoFSW +CC 3.3% AEP Velocity
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### Bedrock Geology

#### Legend

 Site Boundary

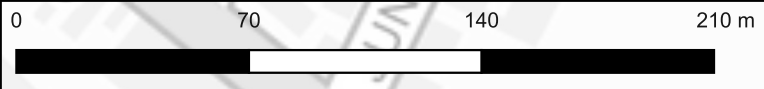
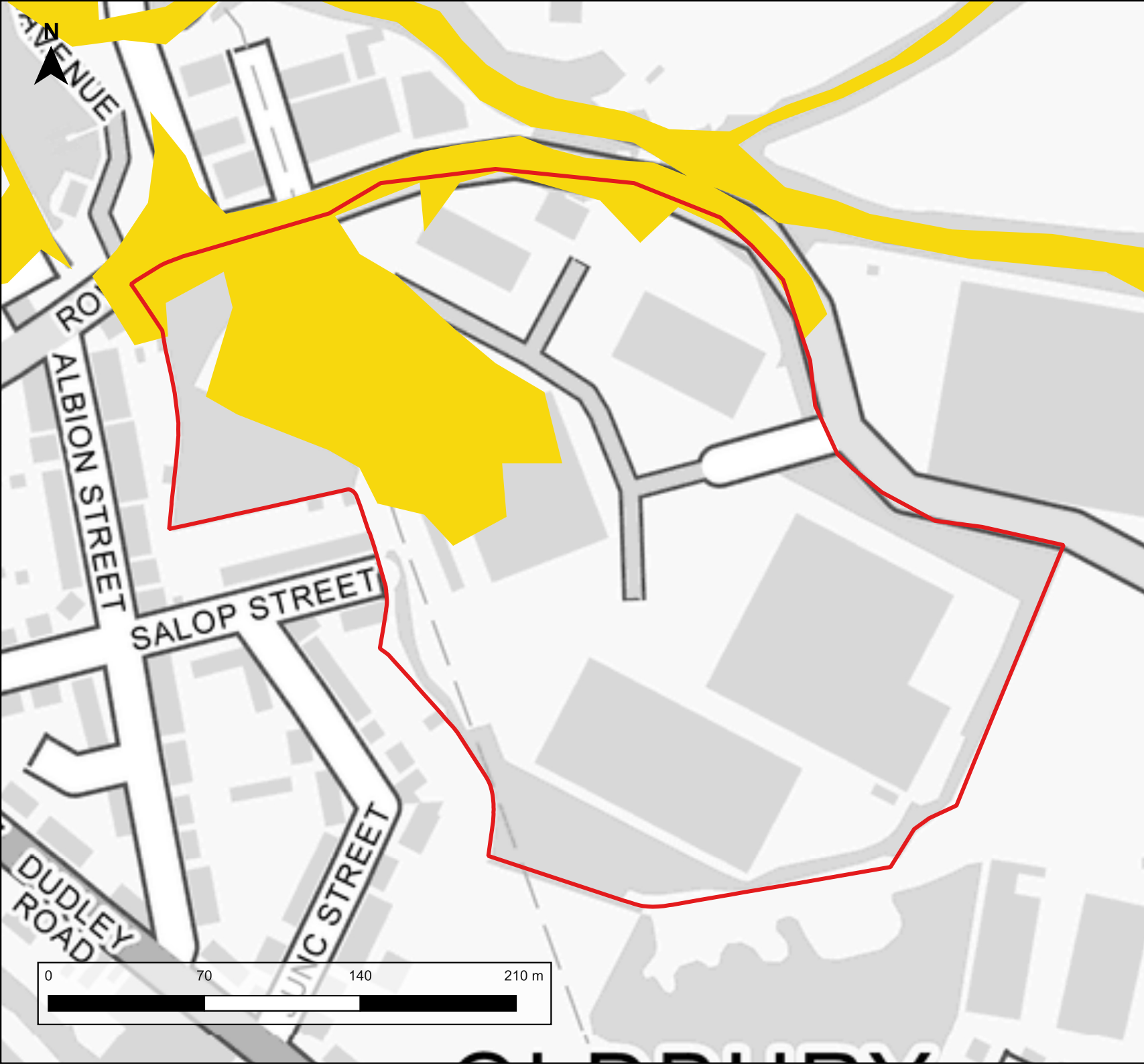
#### Bedrock Geology

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

0 70 140 210 m



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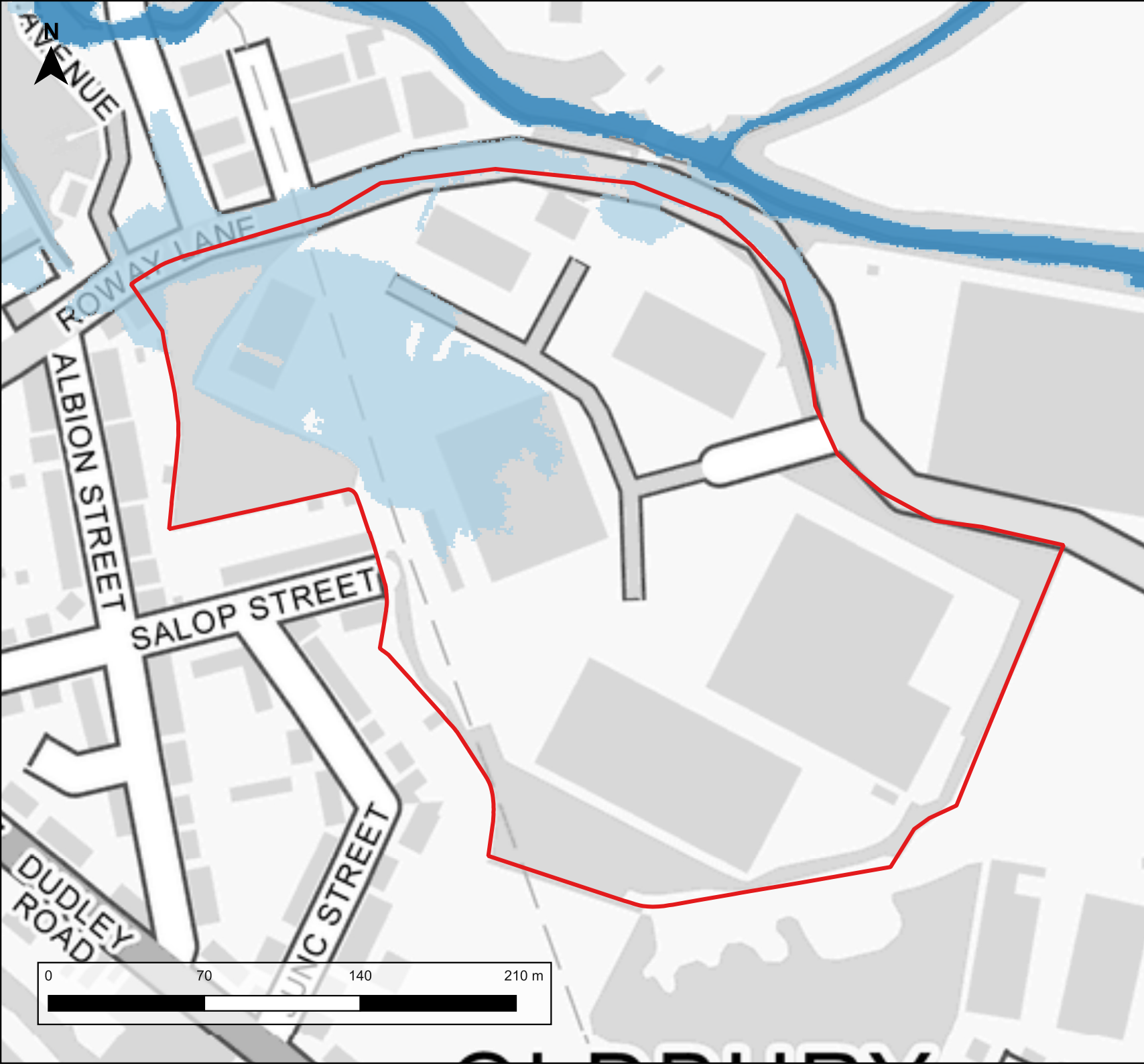
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### Flood Alert and Warning Areas

- Legend**
- Site Boundary
  - Flood Warning Area
  - Flood Alert Area

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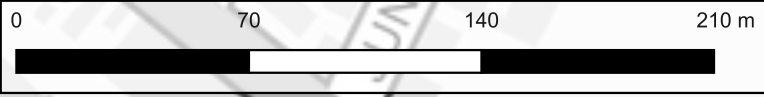
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### Flood Map for Planning

#### Legend

-  Site Boundary
-  Flood Zone 3
-  Flood Zone 2



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Groundwater Emergence

### Legend

- Site Boundary
- 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.

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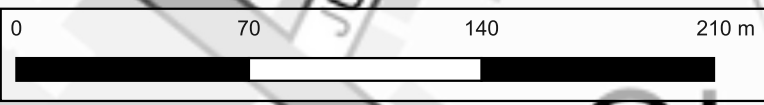
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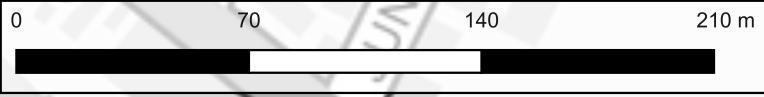
Modelled Fluvial plus Climate Change Flood Risk

### Legend

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



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### Modelled Fluvial Flood Risk

#### Legend

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

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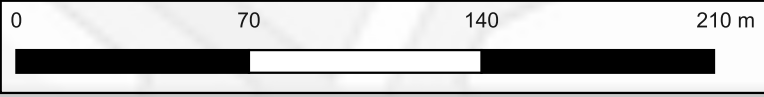
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### Reservoir Flood Extents

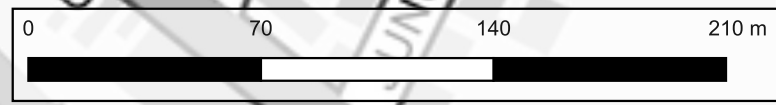
#### Legend

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



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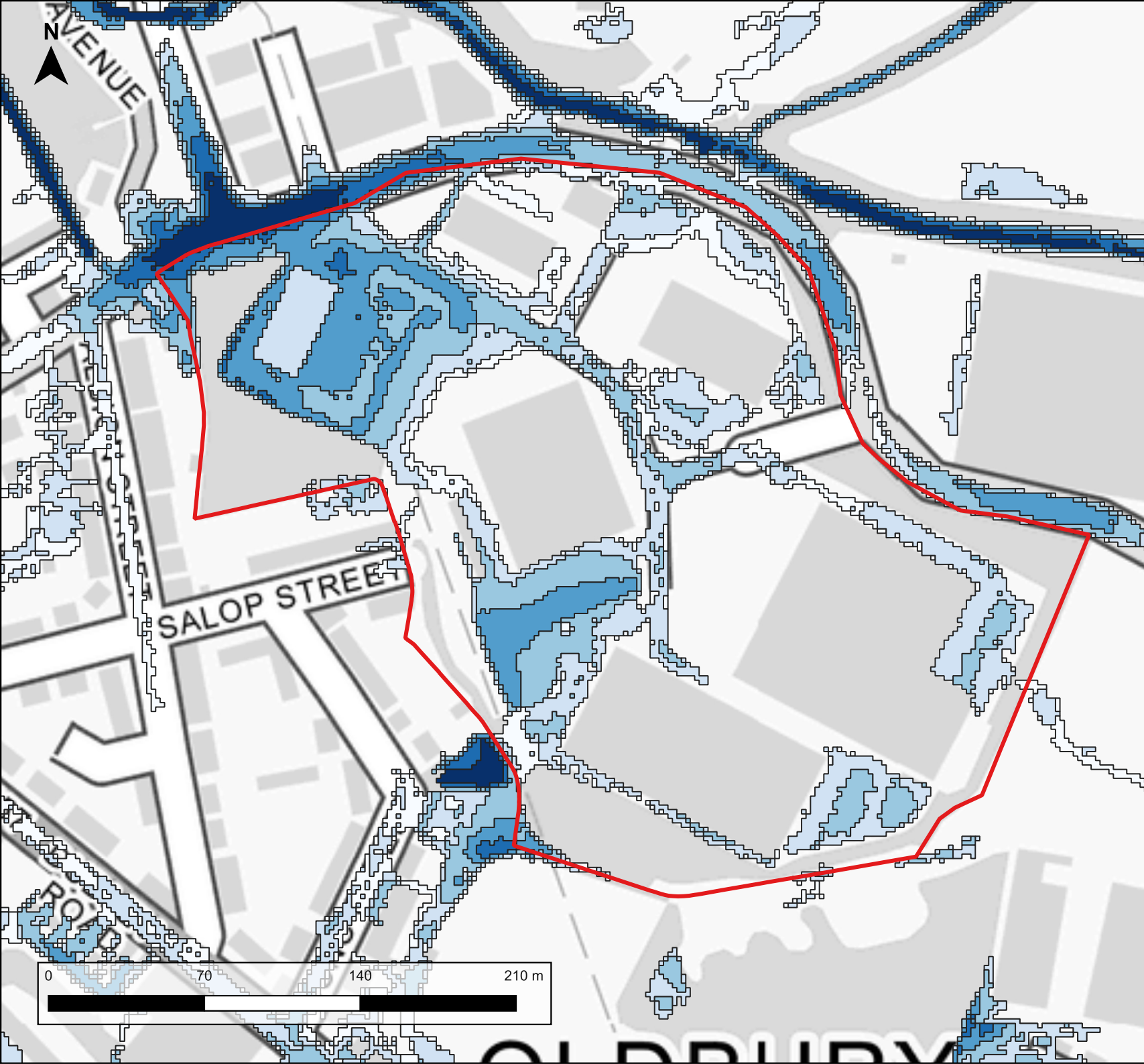


Superficial Deposits

Legend

-  Site Boundary
- Superficial Deposits**
-  Alluvium
-  Glacial sand and gravel
-  Till

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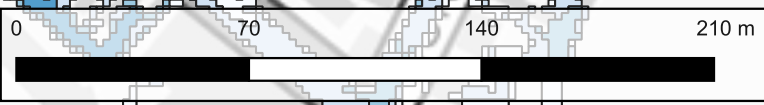
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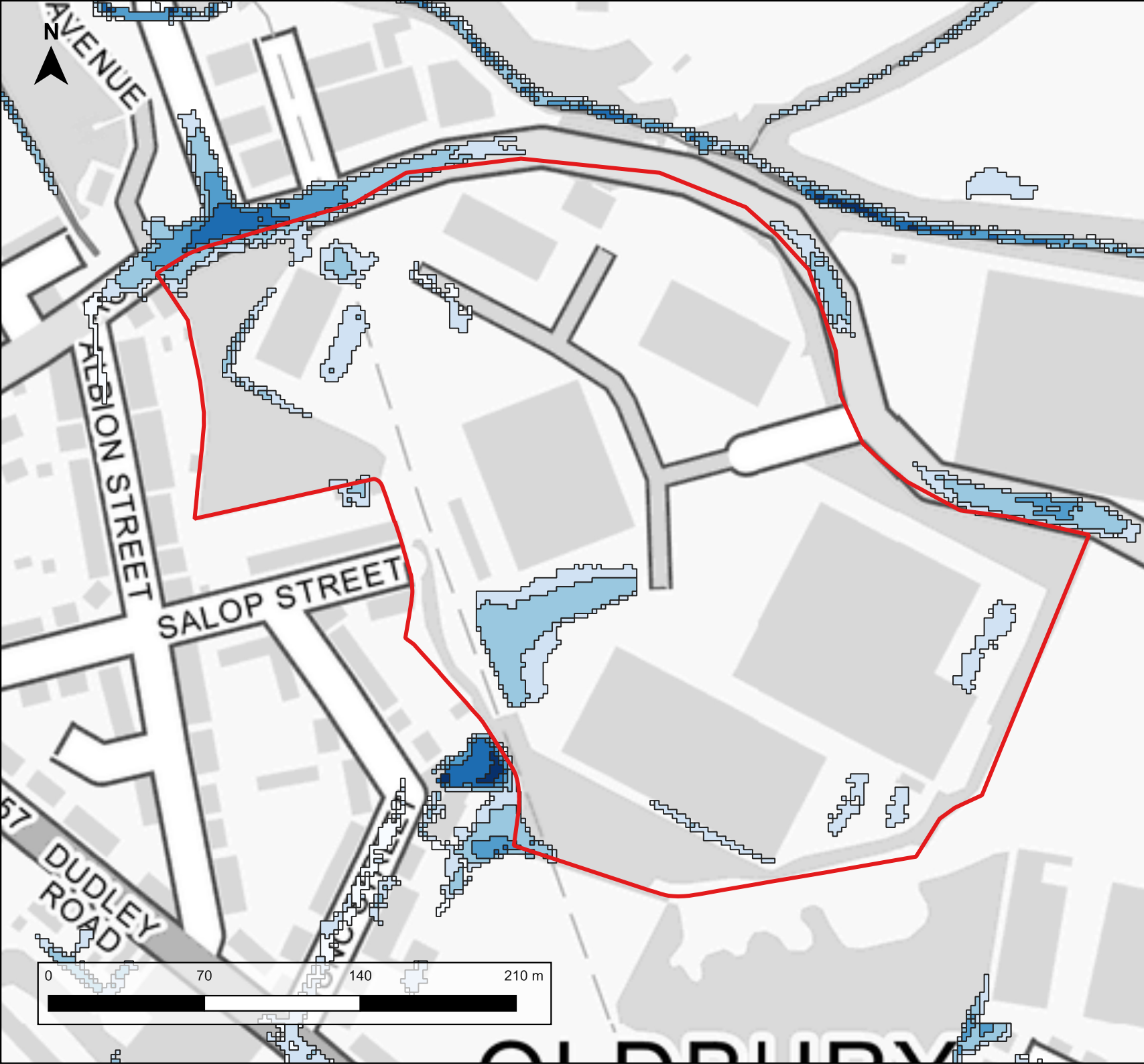
Risk of Flooding from  
 Surface Water 0.1% AEP  
 Depth

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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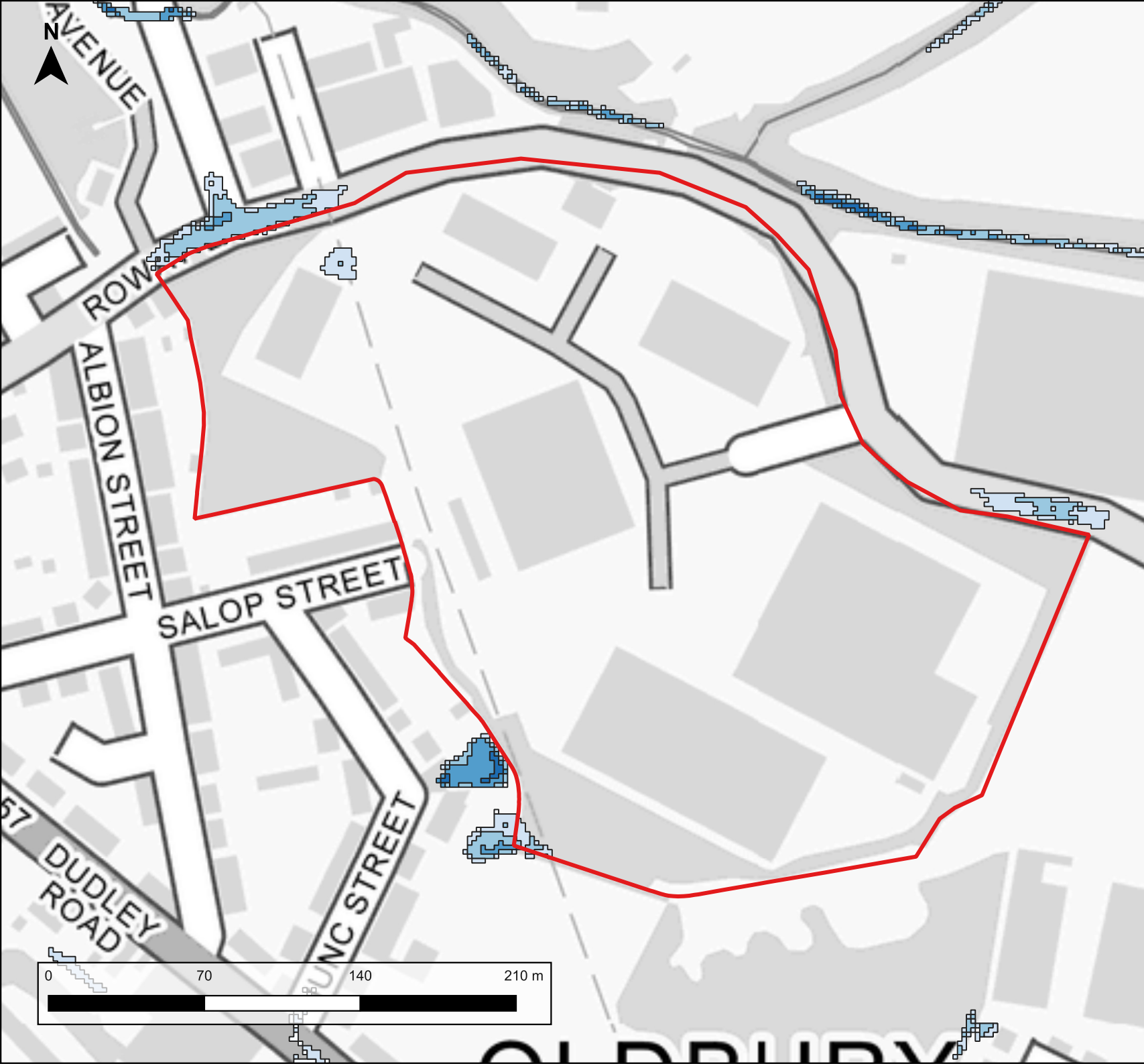
Risk of Flooding from  
 Surface Water 1% AEP  
 Depth

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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**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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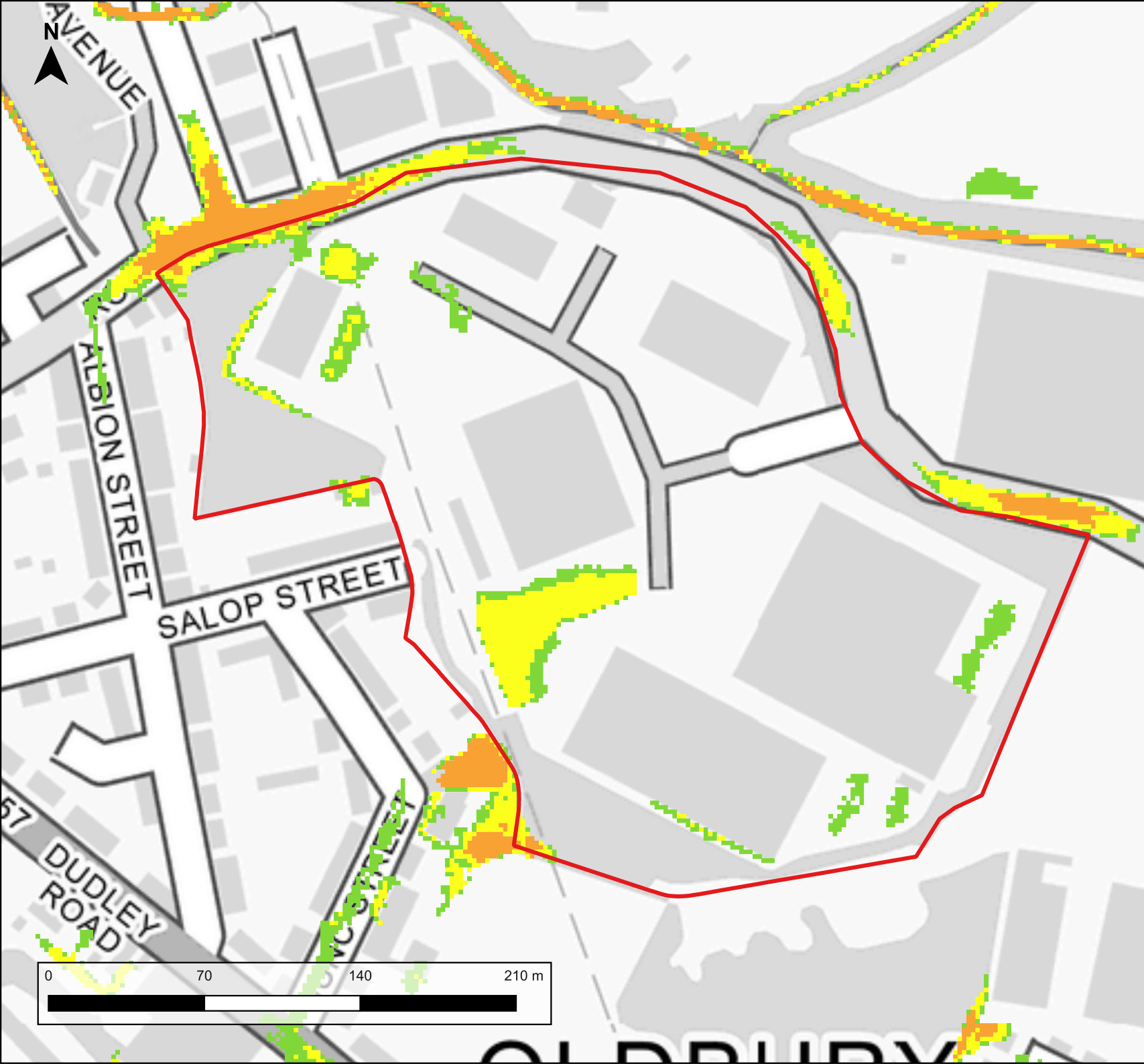


Risk of Flooding from  
 Surface Water 0.1% AEP  
 Hazard

Legend

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

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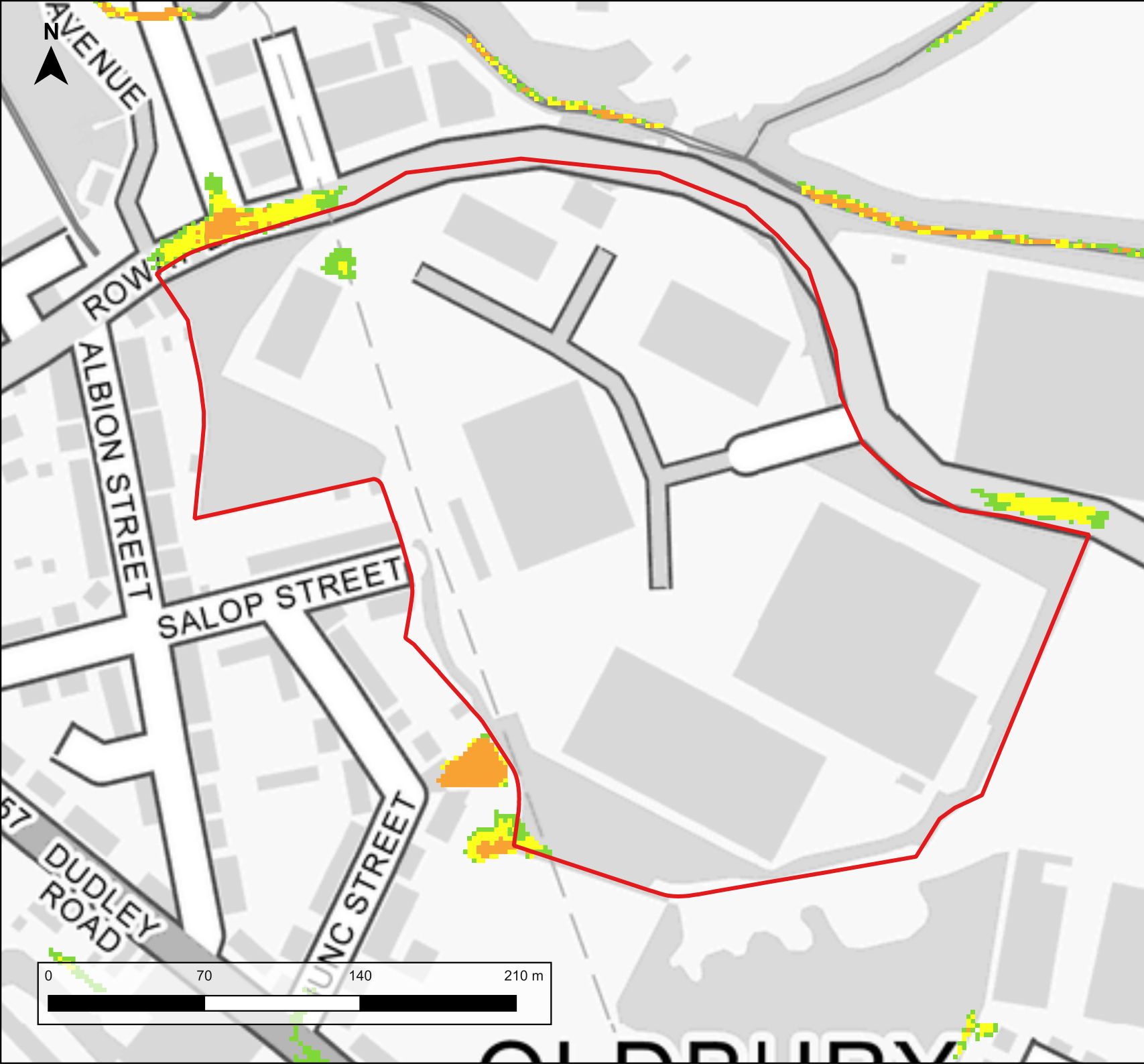


Risk of Flooding from  
 Surface Water 1% AEP  
 Hazard

Legend

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

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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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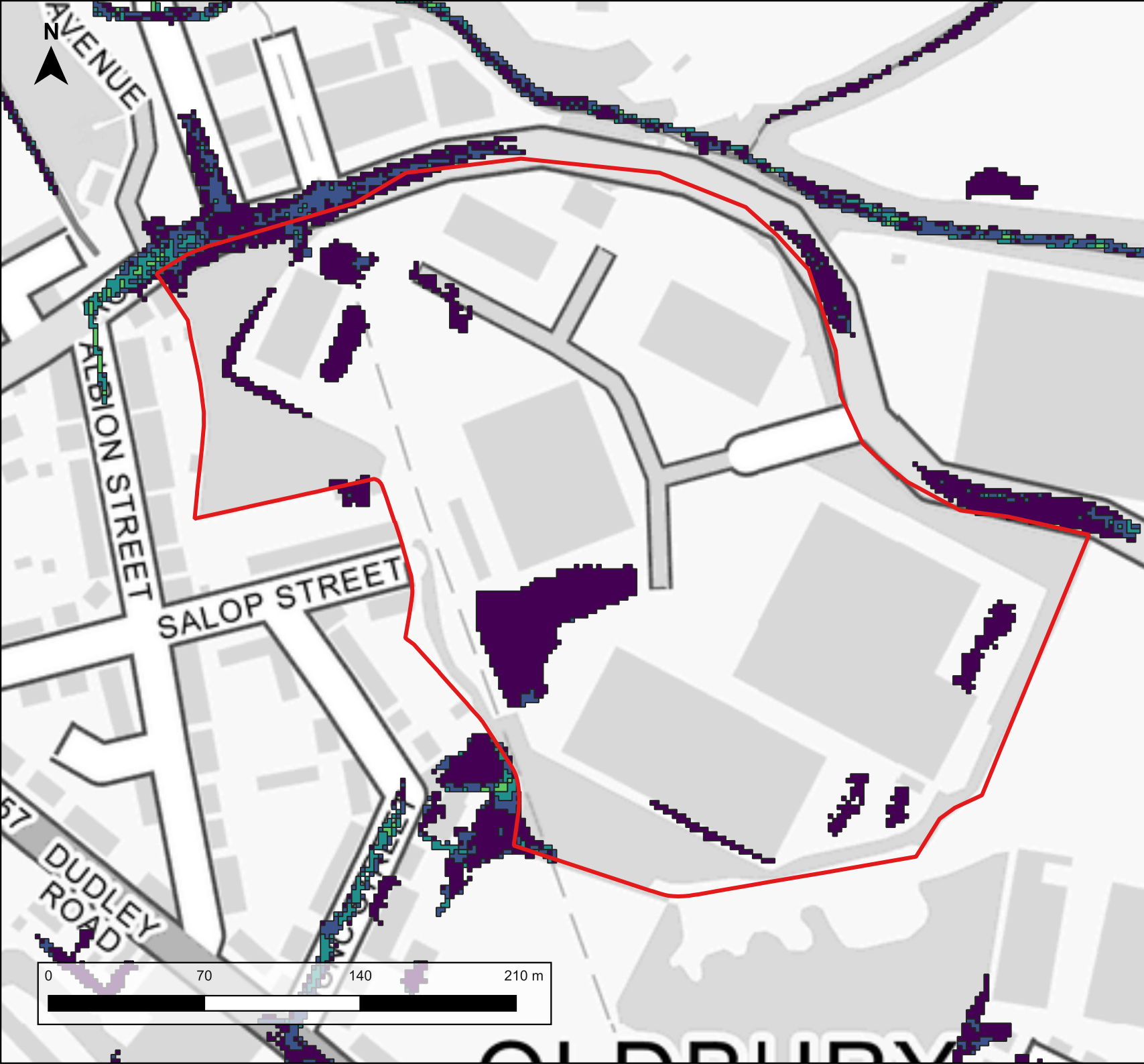
Risk of Flooding from  
 Surface Water 0.1% AEP  
 Velocity

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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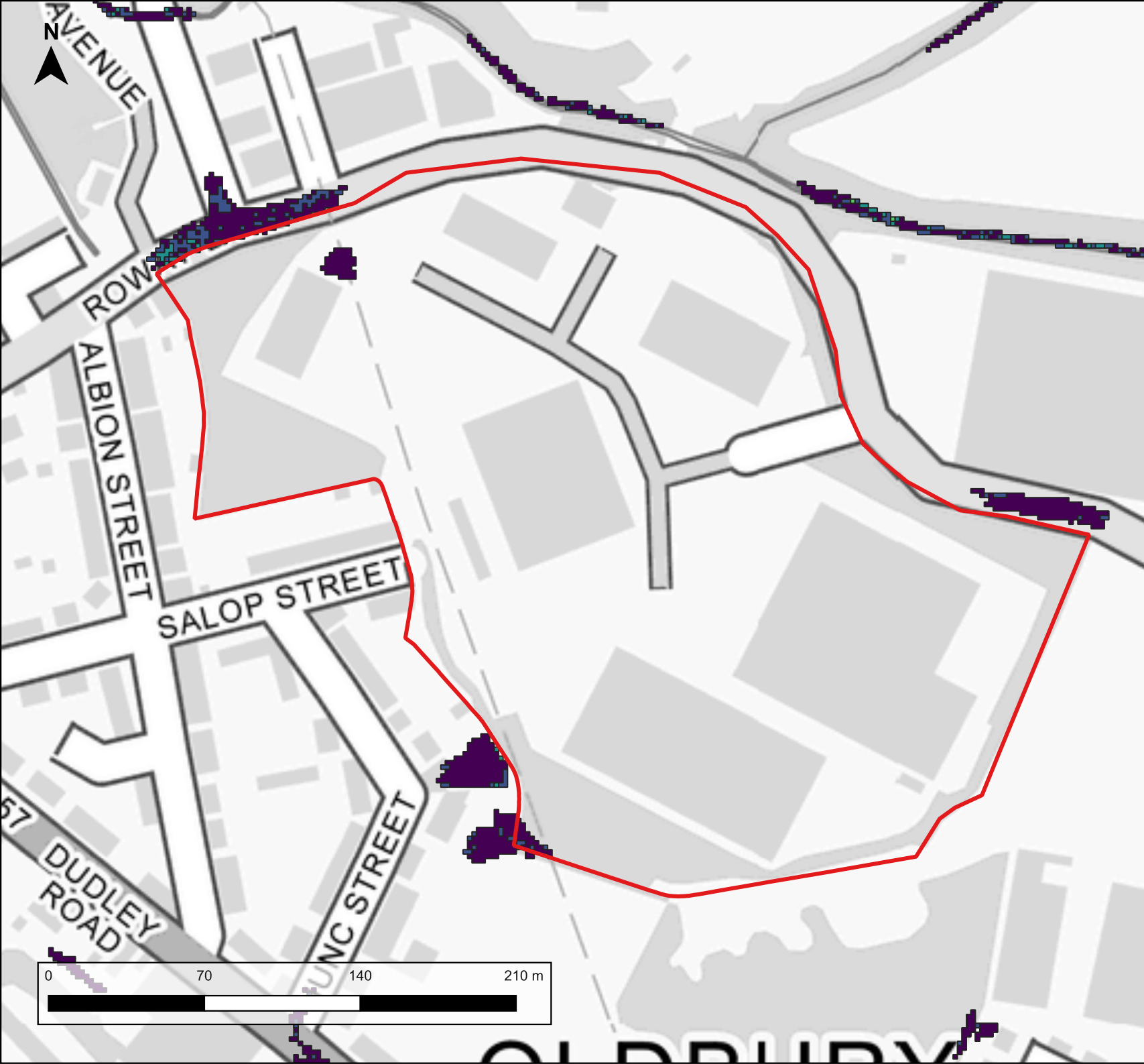


Risk of Flooding from  
 Surface Water 1% AEP  
 Velocity

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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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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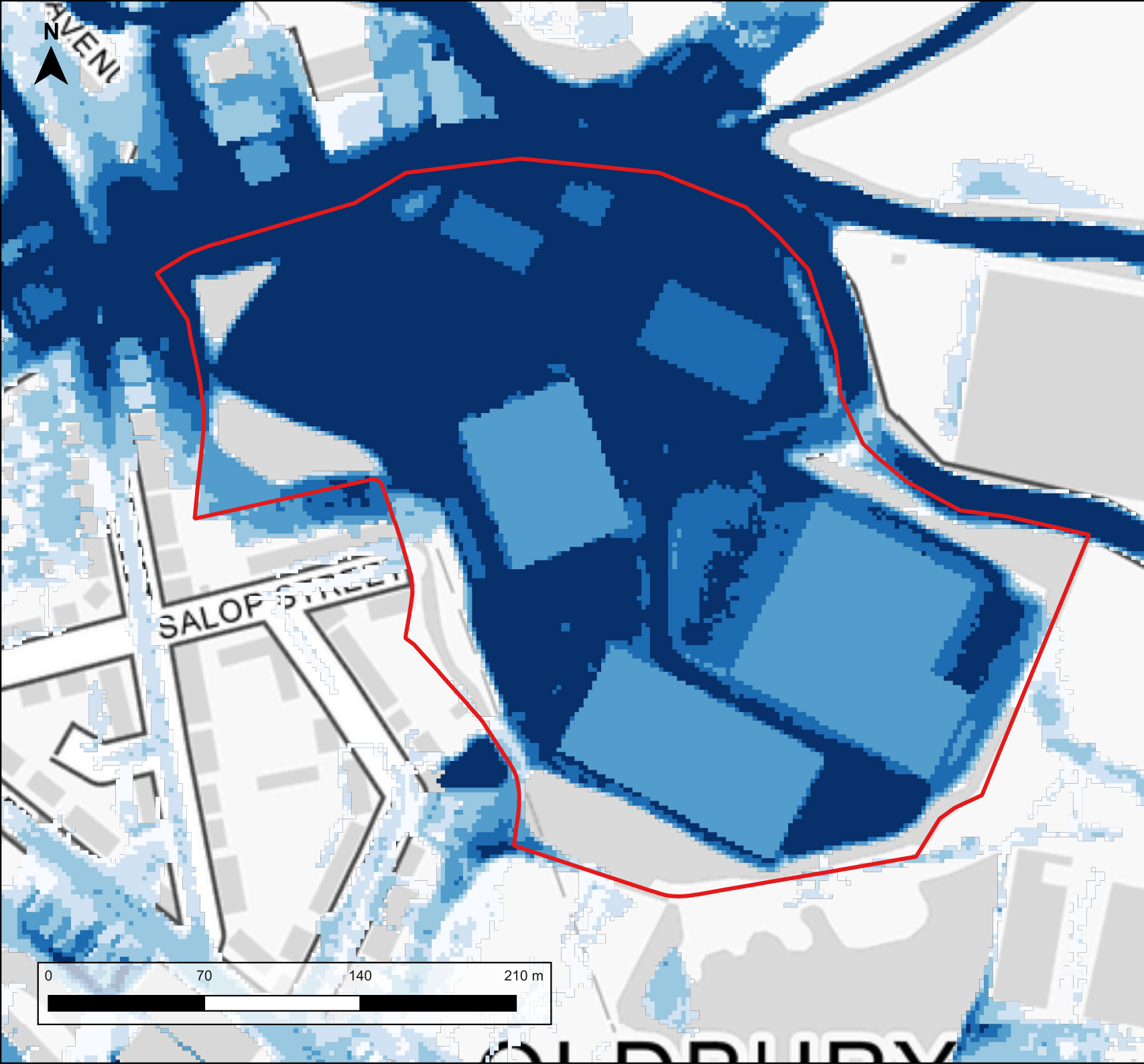


Surface Water Extents

Legend

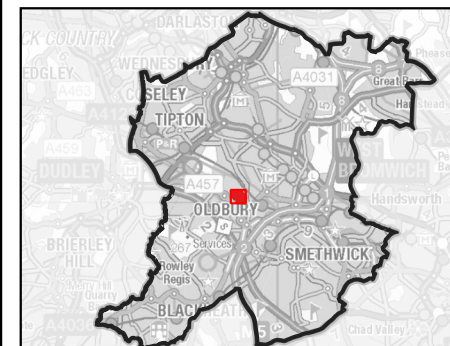
-  Site Boundary
-  RoFSW 30 Year Extent (3.3% AEP)
-  RoFSW 100 Year Extent (1.0% AEP)
-  RoFSW 1000 Year Extent (0.1% AEP)

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

**Legend**

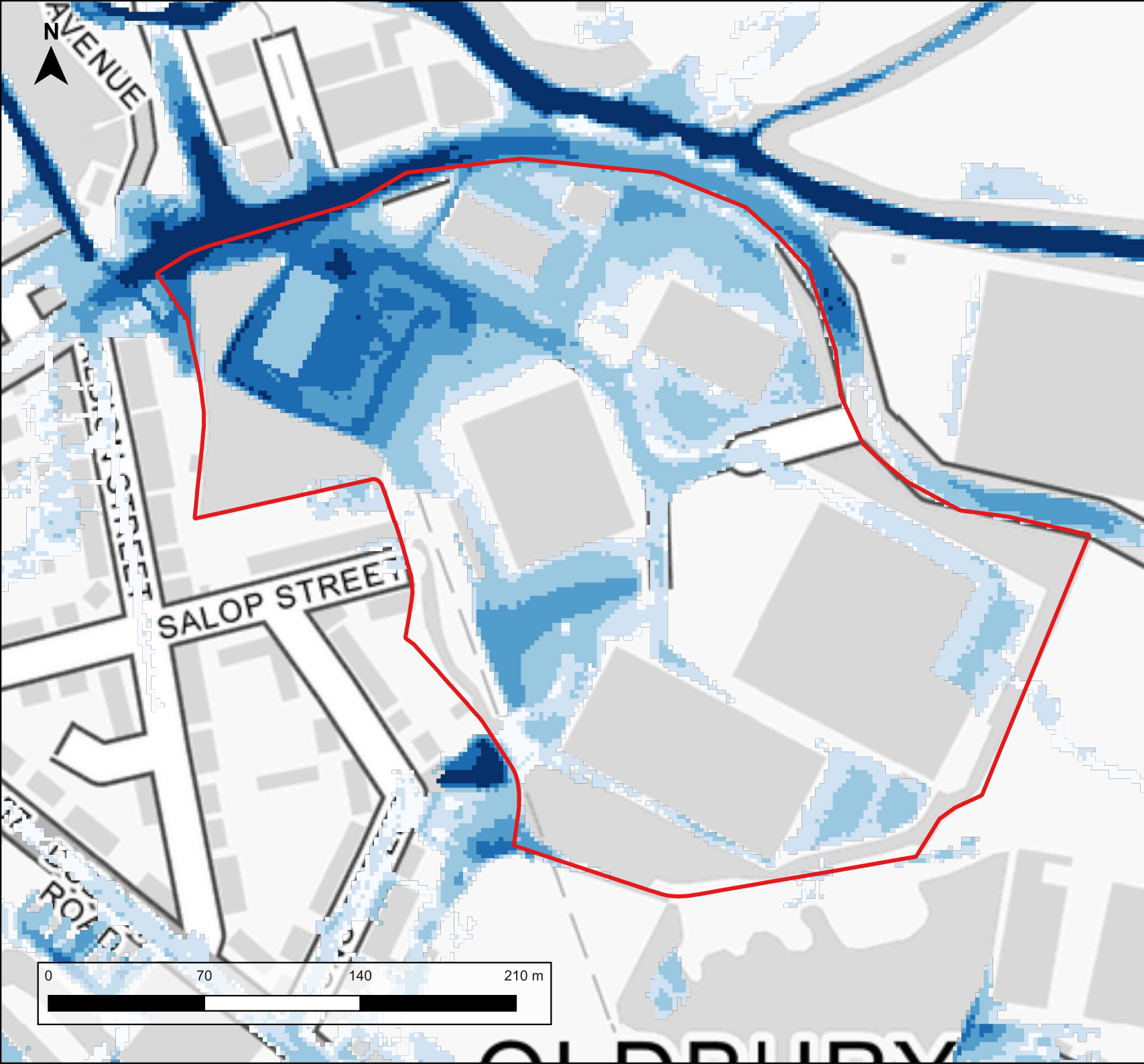
Site Boundary

**0.1% + 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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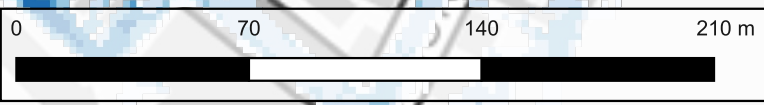
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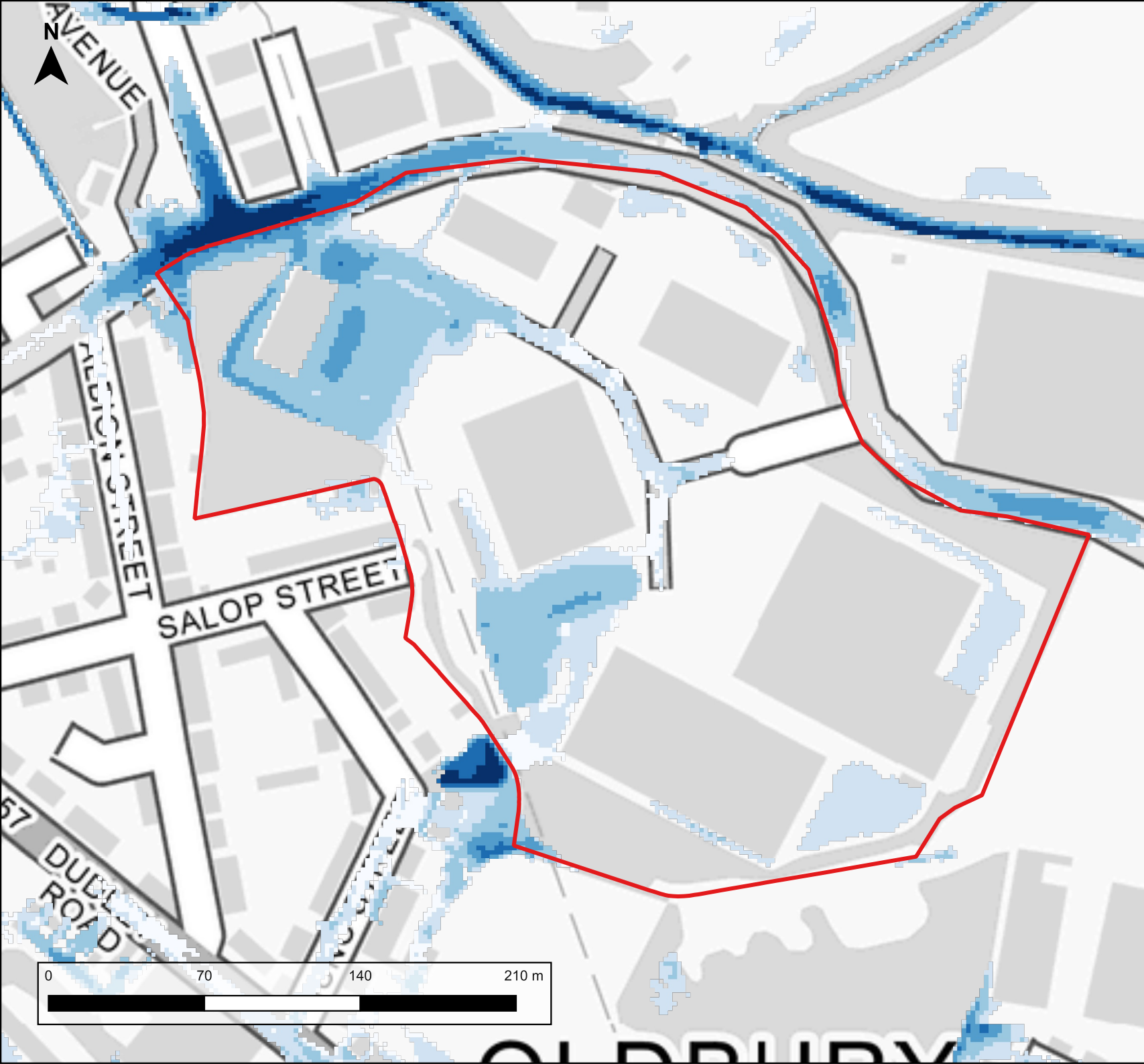
Risk of Flooding from  
 Surface Water 1% + CC  
 Depth

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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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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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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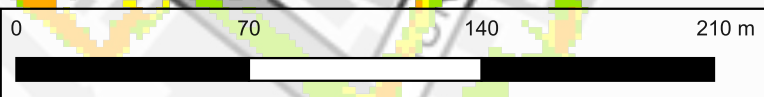


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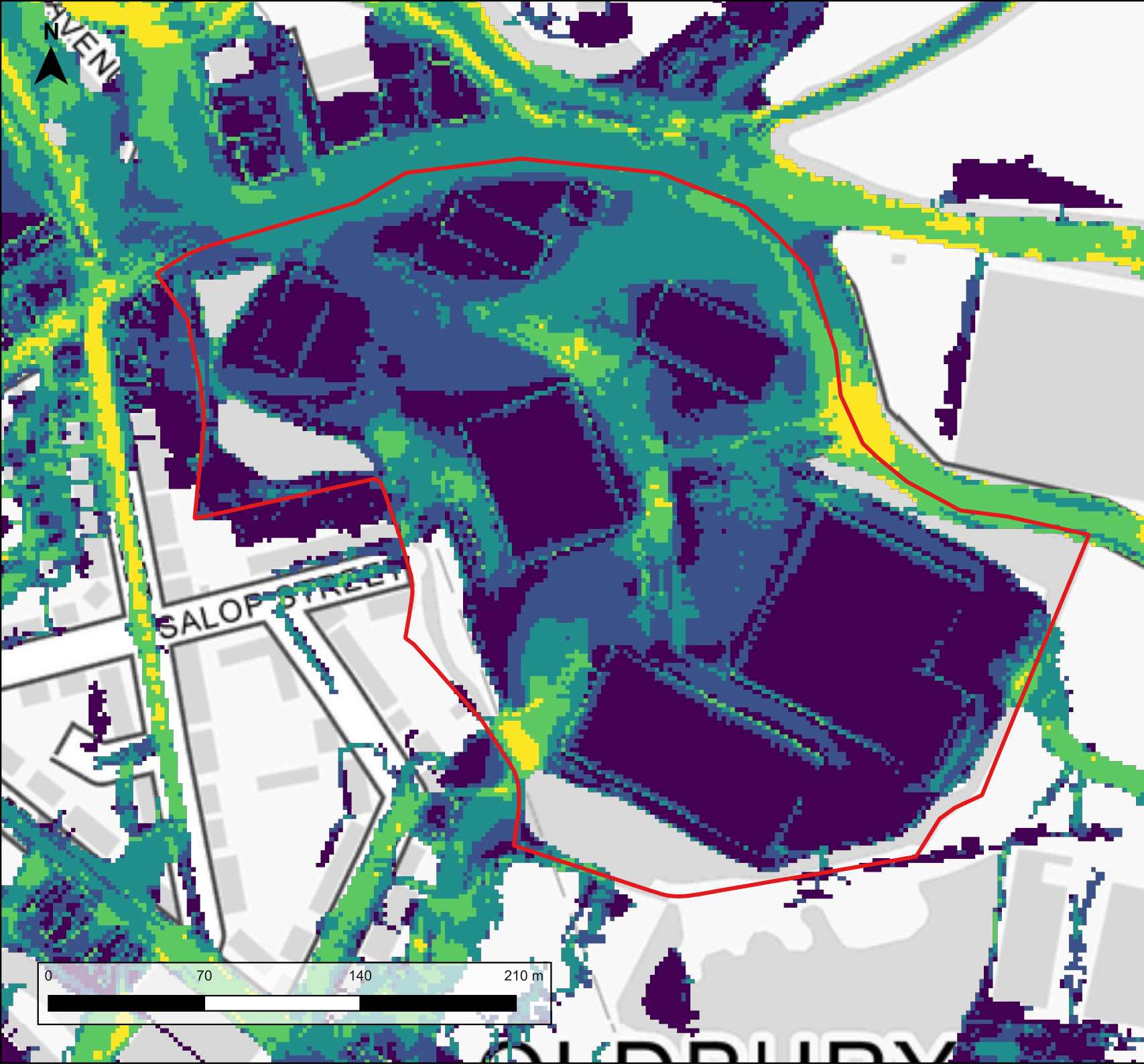


Risk of Flooding from  
 Surface Water 3.3% + CC  
 Hazard

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



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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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Risk of Flooding from  
 Surface Water 1% + CC  
 Velocity

**Legend**

Site Boundary

1% + Upper End CC  
 Velocity (m/s)

< 0.25

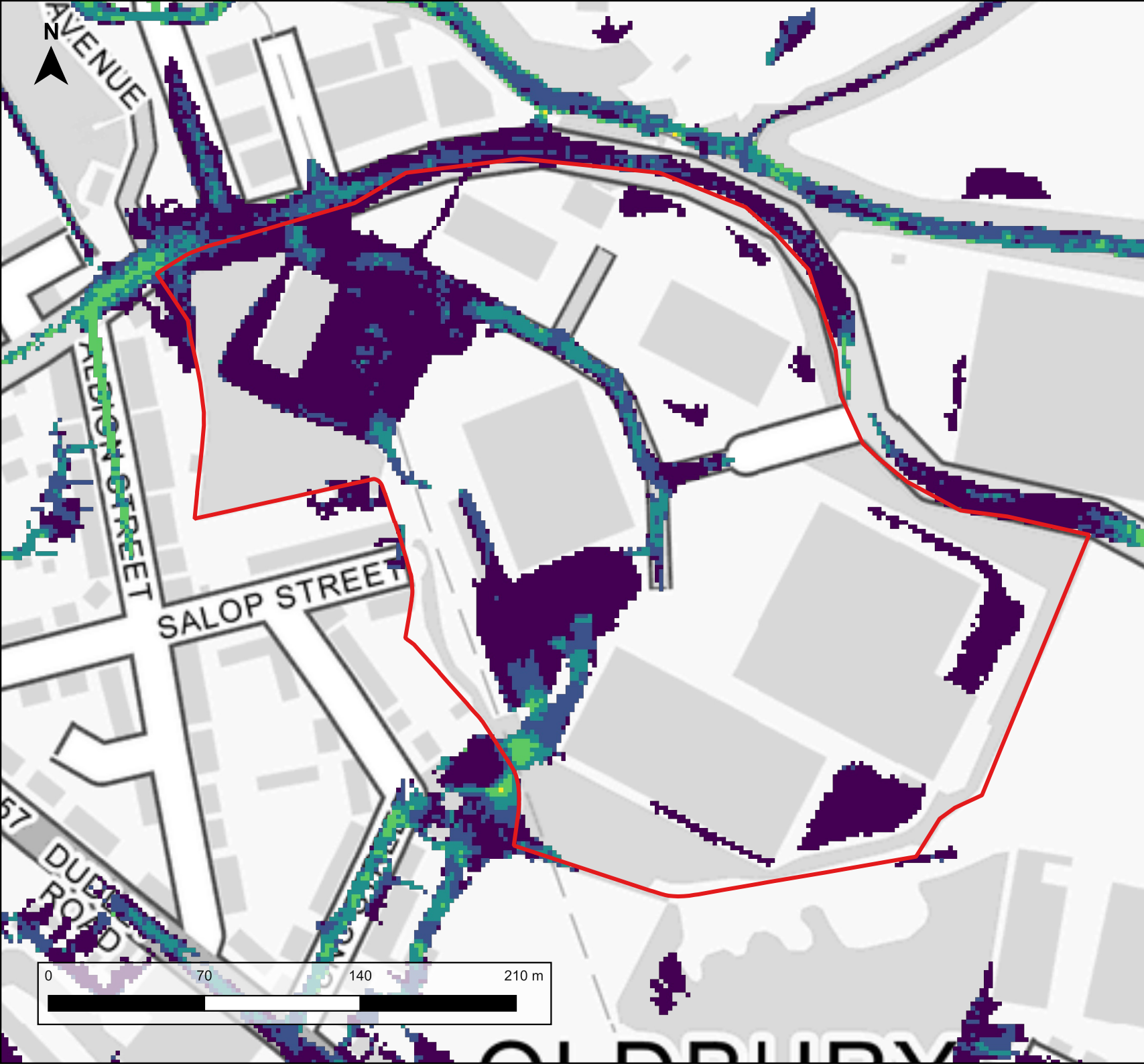
0.25 - 0.50

0.50 - 1.00

1.00 - 2.00

> 2.00

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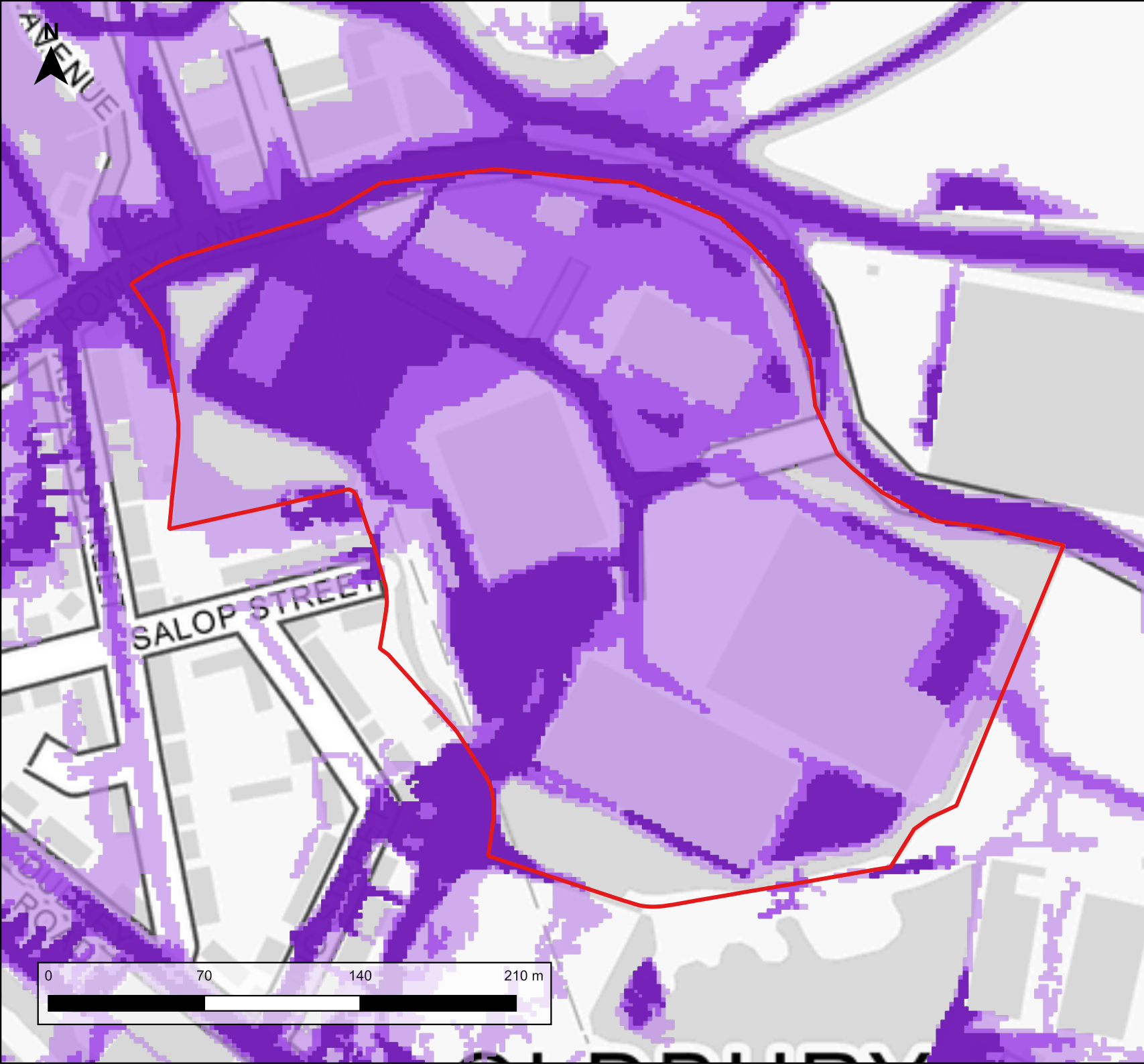


Risk of Flooding from  
 Surface Water 3.3% + CC  
 Velocity

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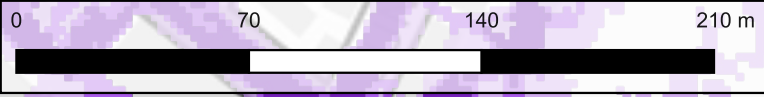
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### Risk of flooding from Surface Water plus Climate Change Extents

#### Legend

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



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