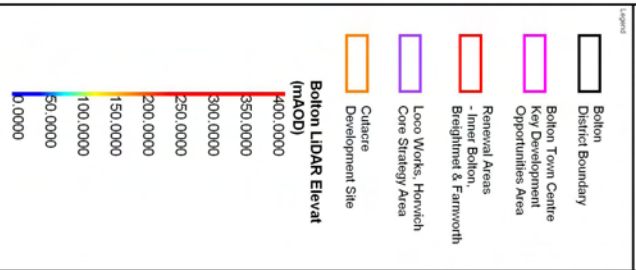


**BOLTON LEVEL 1 UPDATE
& LEVEL 2 STRATEGIC
FLOOD RISK ASSESSMENT**

**BOLTON OVERVIEW -
LIDAR
TOPOGRAPHIC ELEVATIONS**



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Drawing Status:
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PROJECT CHECK	BY	DATE	STATUS
AS SHOWN	AS SHOWN		
HB	Approved	AR	
ADOP CHECK	Approved	24.11.09	

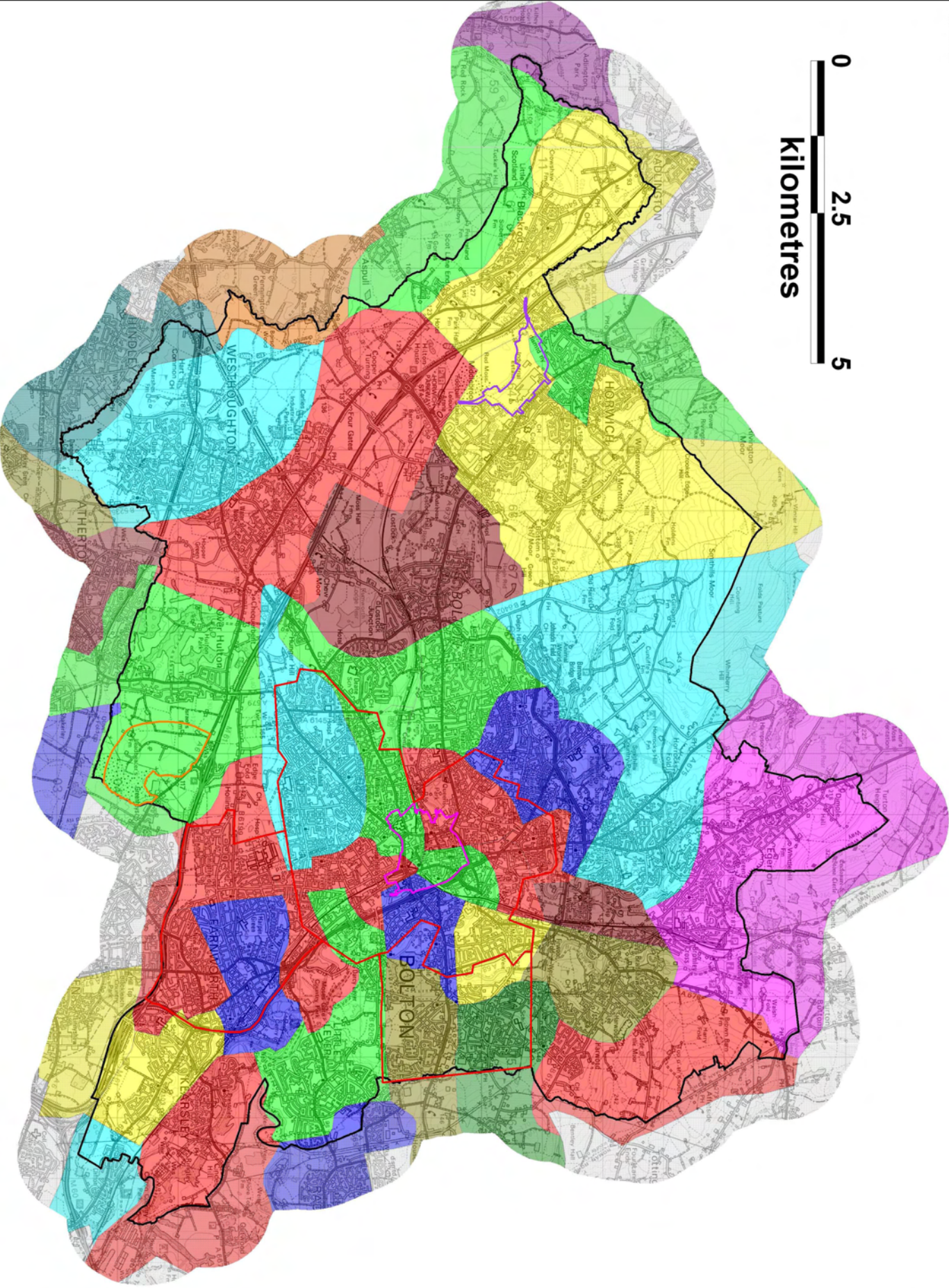


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Kilometres



BOLTON LEVEL 1 UPDATE & LEVEL 2 STRATEGIC FLOOD RISK ASSESSMENT

BOLTON OVERVIEW - EXTERNAL DGS SEWER FLOOD RECORD

- Legend
- Bolton District Boundary
 - Renewal Areas - Inner Bolton, Broughton & Farnworth
 - Town Centre Key Development Opportunities Area
 - Leas Works, Horwich Core Strategy Area
 - Culture Development Site

DGS External Sewer Flood Incident Record (based on Postcode Areas)

- 1 █
- 2 █
- 3 █
- 4 █
- 5 █
- 6 █
- 7 █
- 10 █
- 11 █
- 14 █
- 37 █

Notes

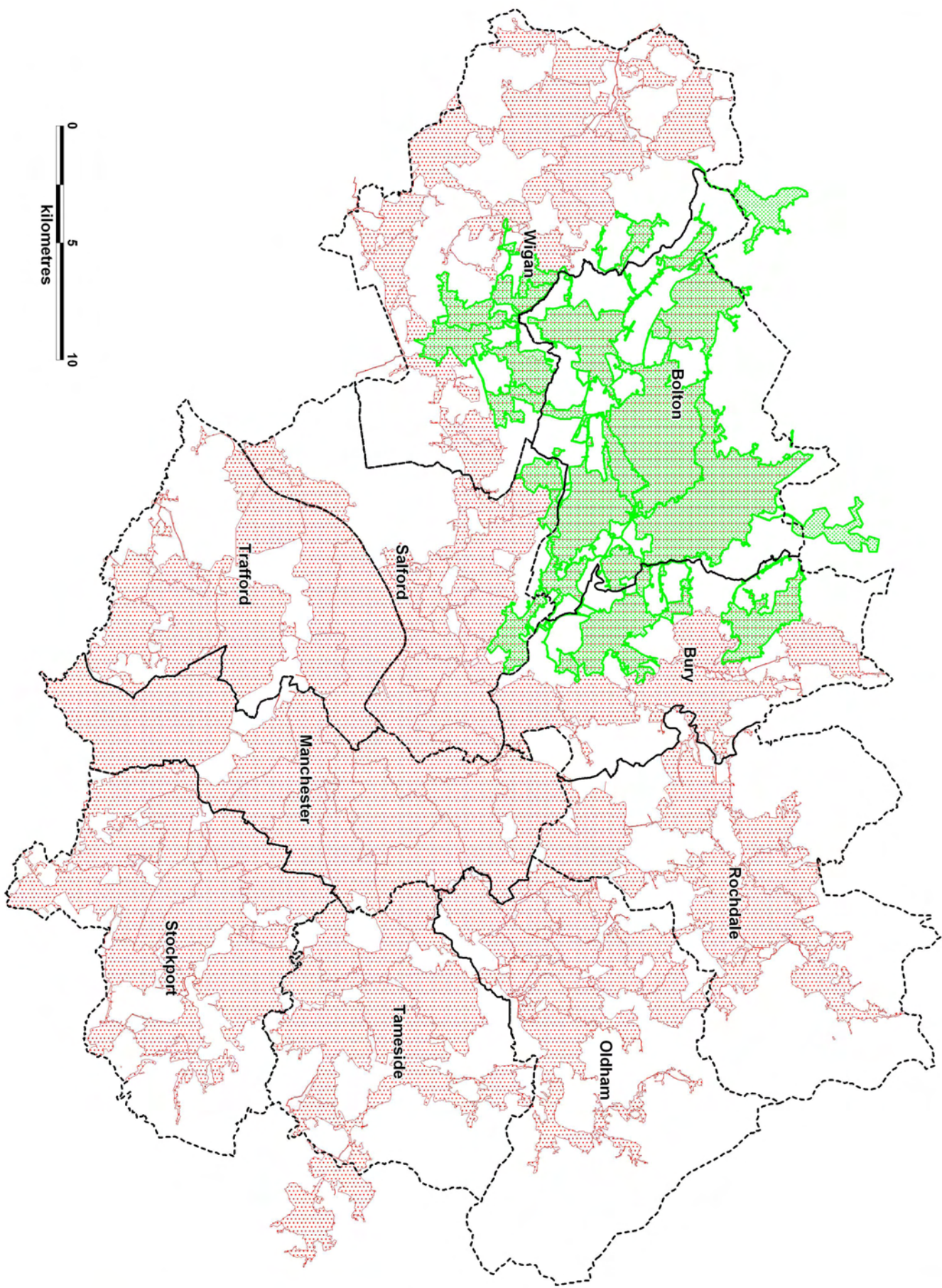
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City of Bolton
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Project Number	D125481	Scale	A5 SHOWN
Client	MC	Author	AR
Start Date	25/11/09	End Date	



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BOLTON LEVEL 1 UPDATE & LEVEL 2 STRATEGIC FLOOD RISK ASSESSMENT

AGMA OVERVIEW - UNITED UTILITIES WWTW CATCHMENT DRAINAGE AREAS

- Greater Manchester (AGMA) District Boundaries
- UU WWTW Drainage Catchment Areas of AGMA
- UU WWTW Drainage Catchment Areas of Bolton

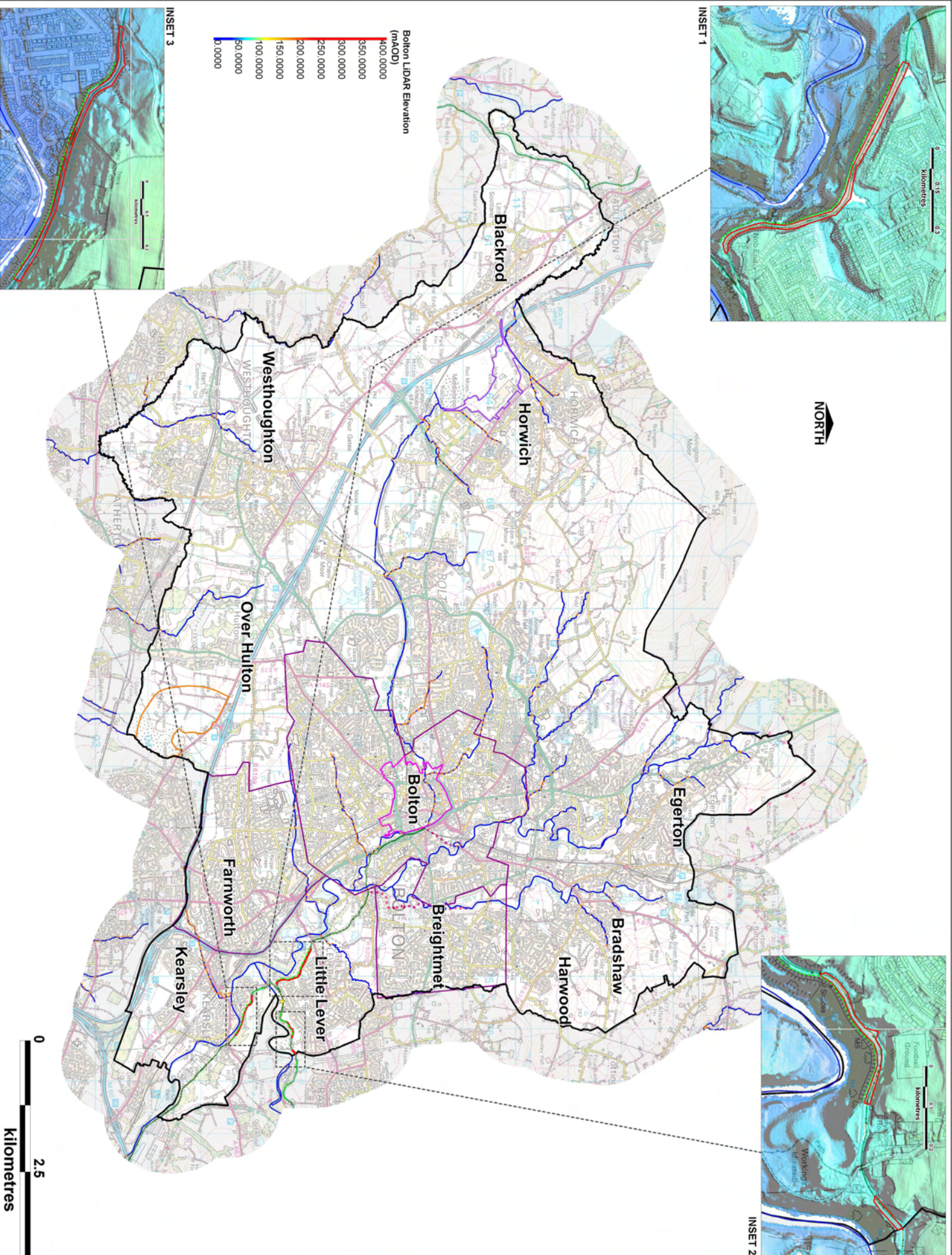
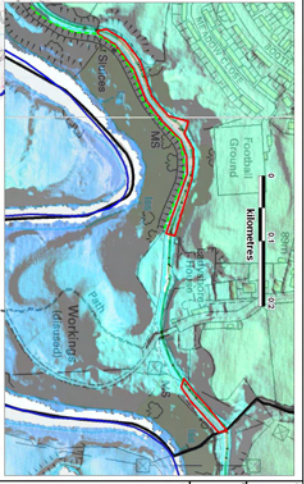
Job Number	Scale	AS SHOWN
D125483	Scale @ 2:1	AS SHOWN

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BOLTON LEVEL 1 UPDATE & LEVEL 2 STRATEGIC FLOOD RISK ASSESSMENT POTENTIAL BREACHES & VULNERABILITY AREAS

- Bolton District Boundary
- Renewal Areas - Former Bolton, Broughton, Farnworth & Bradshaw
- Town Centre Key Operational Area
- Culture Forward Site No Window Loss Works, Horwich Core Strategy Area
- Canals
- Coloured Channels
- River Canals/Weirs
- Suspended Canal Feeder
- Retained Canal Enhancements (from 1:10,000 OS)
- Historic Canal Enhancement Breach (Latter Level 1/3/5 (reach row and in water))
- Potential Breach - Vulnerability Canal Resilience (connection to watercourses)

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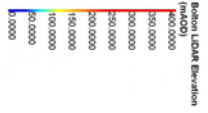
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D125483 - Figure 5-7



Legend

- Bolton District Boundary
- Potential Areas - Lower Bolton, Farnworth & Brightside
- Town Centre Key Development Areas
- Centres
- Local Works, Horwich Core Strategy Area
- River Catchments
- Proximate Flood Route
- Potential Risk from Reservoirs Outside Study Area
- Reservoir (over surface area)

Reservoirs by Capacity (1000m)

- 5,000 to 6,700
- 4,480 to 5,600
- 3,360 to 4,480
- 2,240 to 3,360
- 1,120 to 2,240
- 28 to 1,120
- < 28

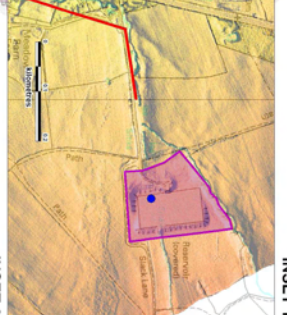
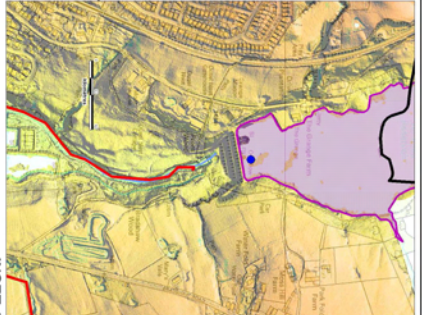
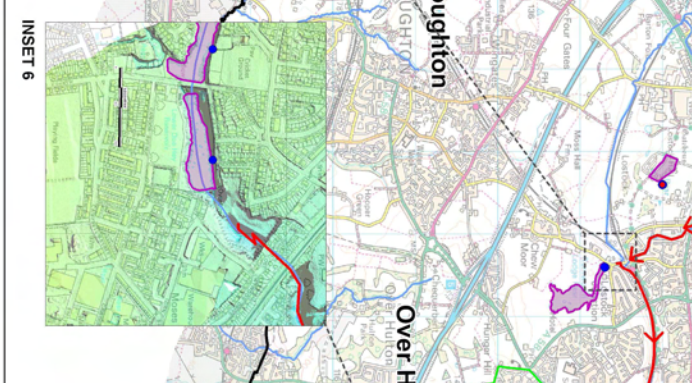
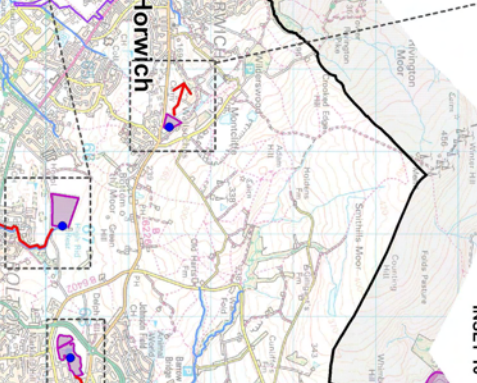
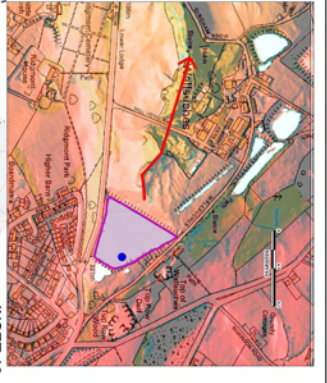
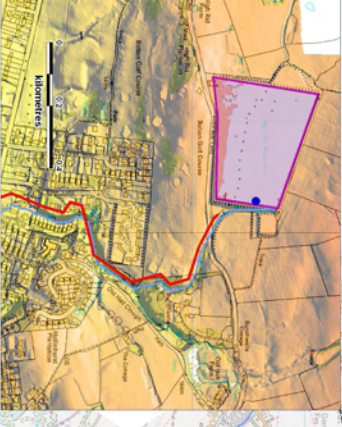
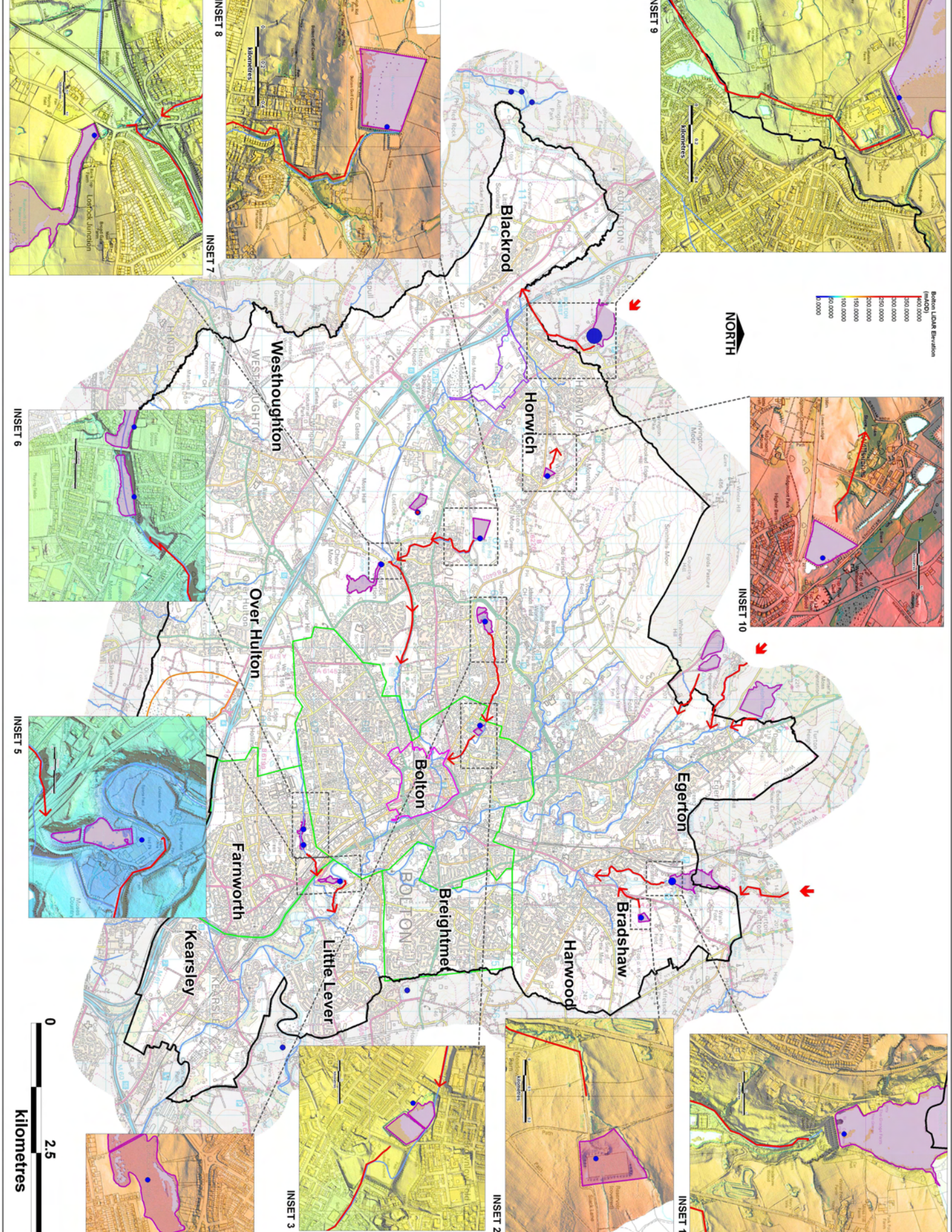
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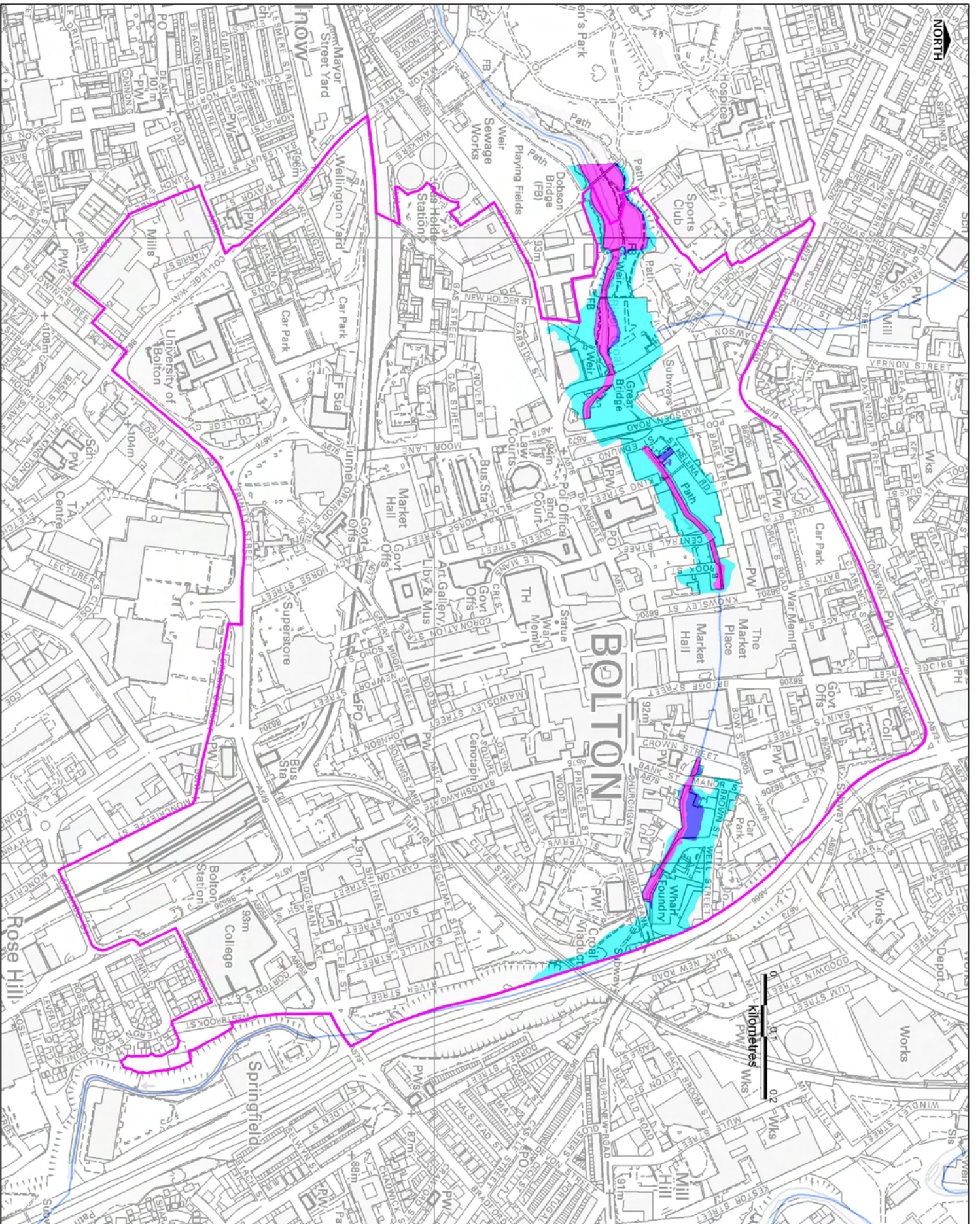
0 2.5 5 Kilometres

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




D125483 - Figure 5-8





BOLTON LEVEL 1 UPDATE & LEVEL 2 STRATEGIC FLOOD RISK ASSESSMENT

BOLTON TOWN CENTRE - FLOOD ZONES 2 AND 3a/b

-  Bolton Town Centre Opportunities Area
-  River Centrelines
-  Flood Zone 2
-  Flood Zone 3a
-  Flood Zone 3b (Functional Floodplain)

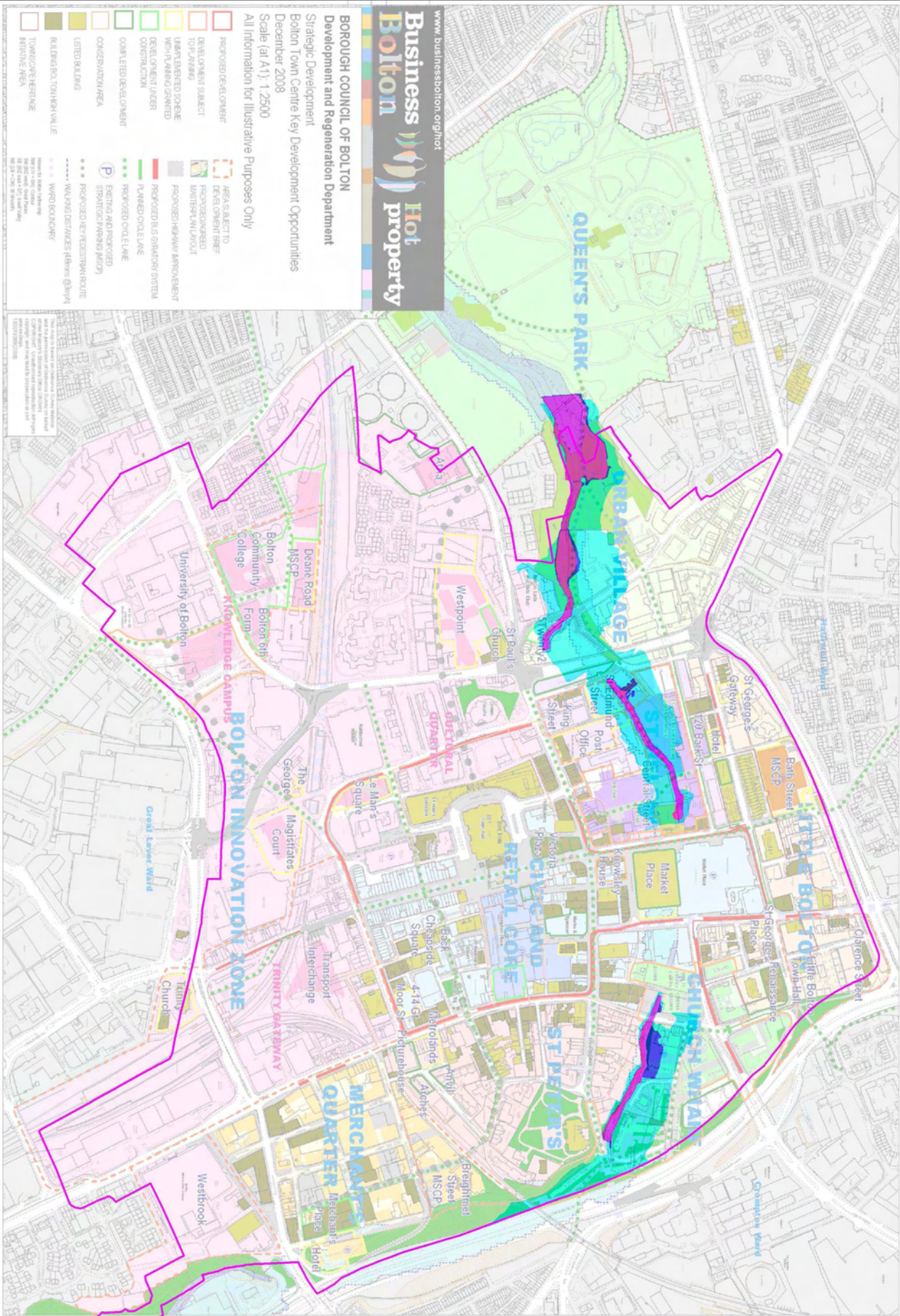
Notes:
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DRAFT FOR CONSULTATION

Project Name	D125481	Project Number	AS SHOWN
Client	MJC	Version	AR
Design Team	Scott Wilson	Date	17/12/20

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BOLTON LEVEL 1 UPDATE & LEVEL 2 STRATEGIC FLOOD RISK ASSESSMENT

BOLTON TOWN CENTRE KEY DEVELOPMENT OPPORTUNITIES - FLOOD ZONES 2 AND 3a/b

- Bolton Town Centre Key Development Opportunities Area
- River Centrelines
- Flood Zone 2
- Flood Zone 3a
- Flood Zone 3b
- Flood Zone 3b (Functional Floodplain)

www.businessbolton.org/hot



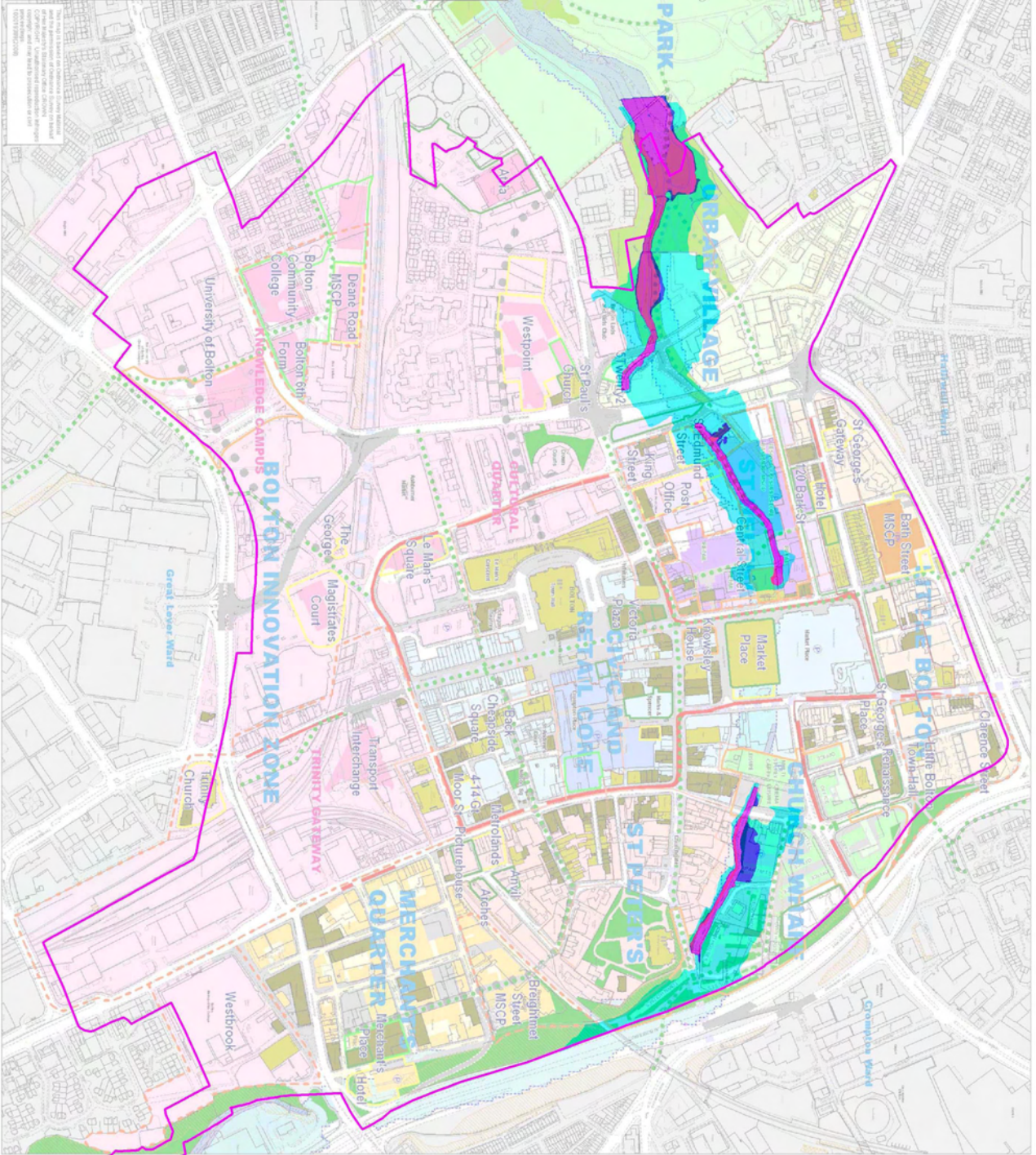
BOROUGH COUNCIL OF BOLTON
Development and Regeneration Department

Strategic Development
Bolton Town Centre Key Development Opportunities
December 2008

Scale (at A1) 1:2500

All Information for Illustrative Purposes Only

- PROPOSED DEVELOPMENT
- DEVELOPMENT SUBJECT TO PLANNING
- URBAN EXPANSION SCHEME WITH PLANNING GRANTED
- DEVELOPMENT UNDER CONSTRUCTION
- COMPLETED DEVELOPMENT
- CONSERVATION AREA
- LISTED BUILDING
- BALANCED TOWNSHIP VALUE
- TOWN/CENTRE/RURAL NATURE AREA
- AREA SUBJECT TO DEVELOPMENT BREEZE PROMOTIONED MASTERPLAN LAYOUT
- PROPOSED HIGHWAY IMPROVEMENT
- PROPOSED BUS/GATEWAY ROUTE
- PROPOSED RAINWATER SYSTEM
- PROPOSED CYCLE LANE
- PROPOSED AND PROPOSED STRATEGIC PARKING AREAS
- PROPOSED DEVELOPMENT ROUTE
- PROPOSED DEVELOPMENT ROUTE
- WALKING DISTANCES (shown @ 5min)
- WIND BOUNDARY
- PROPOSED DEVELOPMENT ROUTE
- PROPOSED DEVELOPMENT ROUTE
- PROPOSED DEVELOPMENT ROUTE
- PROPOSED DEVELOPMENT ROUTE



Bolton Council

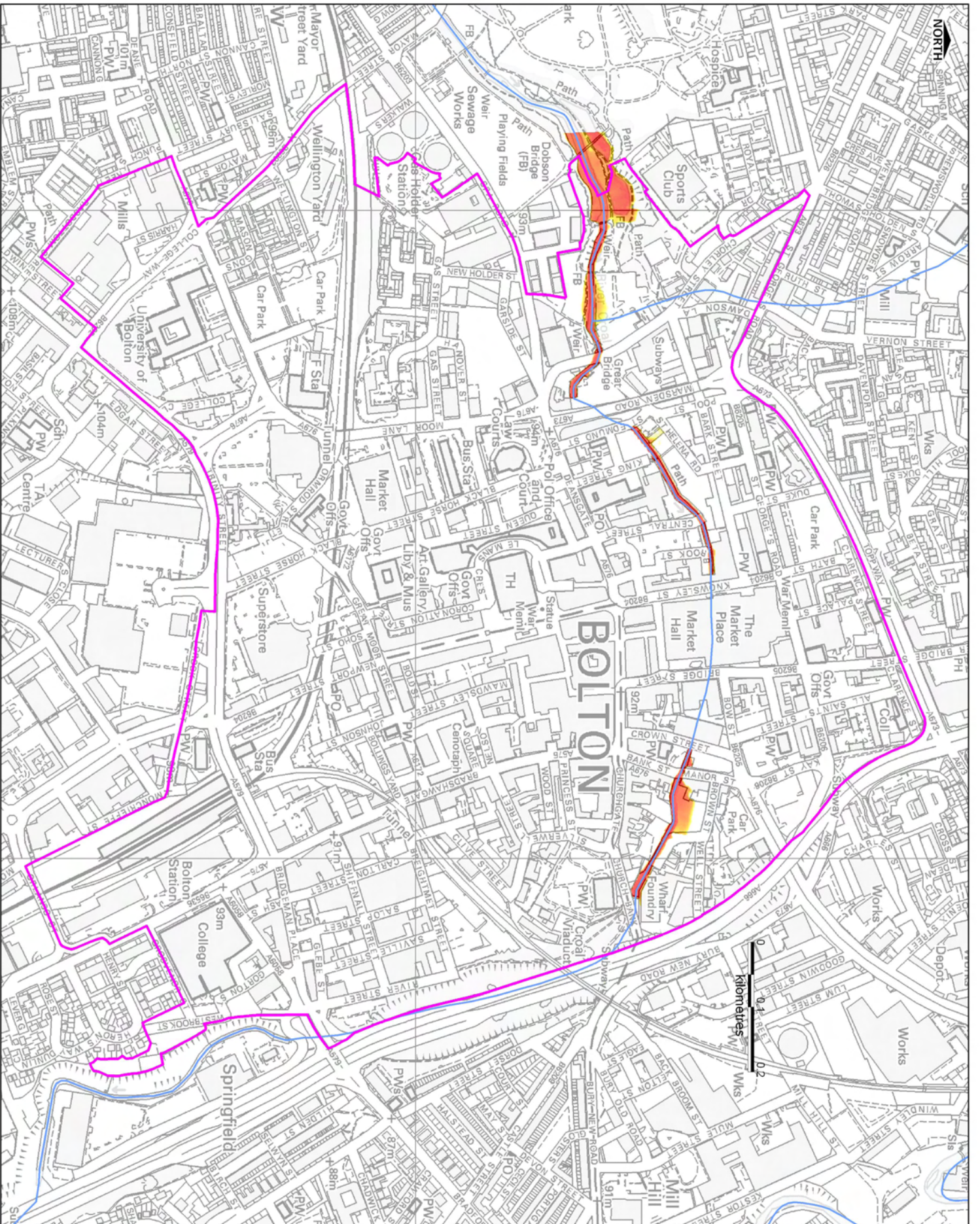
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D125481 - Figure 6-2

PROJECT CHECK	BY	DATE	STATUS
D125481	AS SHOWN		
MJC	APPROVED	AR	
			17/12/09

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**BOLTON LEVEL 1 UPDATE
& LEVEL 2 STRATEGIC
FLOOD RISK ASSESSMENT**

**BOLTON TOWN CENTRE -
PREDEVELOPMENT
FLOOD HAZARD MAP
1% AEP EVENT**

- Bolton Town Centre
Key Development
Opportunities Area
- River Centrelines

**Degree of Depth Hazard
(Defra FD321)**

	Danger for Some
	Danger for Most
	Danger for All

Notes:
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extent in the Bolton Town Centre development opportunity area

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Project Number	D125481	Project Name	AS SHOWN
Client	MJC	Version	AR
Design / Check	100% / 100%	Design / Check	100% / 100%
Issue / Date		Issue / Date	17/12/09



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