The following 5 maps replace the maps in the SFRA Level 2 Report identified in the Table below. The replacements have been made owing to printing errors in the original Report. The original data underlying the maps remains unchanged.

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NOTES

AEP = Annual Exceedance Probability. The probability of a flood of a particular magnitude, or greater, occurring in any given year.

4% AEP = 1 in 25yr flood event
1% AEP = 1 in 100yr flood event
0.1% AEP = 1 in 1000yr flood event

Generally, the Flood Zone Classification is based around the return period. Anything less than a 5% AEP is considered Flood zone 3b. However, it was agreed with EA and SGC to use the 4% AEP for the Flood zone 3b of the River Tyren for the purposes of this study.

Between 5% AEP and 1% AEP is Flood Zone 3a. Flood Zone 2 is generally Anything less than 5% AEP and 0.1% AEP. Anything greater than 0.1% is Flood Zone 1.

Legend

- Flood Zone 3a
- Flood Zone 3a Climate Change
- Flood Zone 2

Elevations above Ordnance Datum

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Generally, the Flood Zone Classification is based around the return periods. Anything less than a 5% AEP is considered Flood Zone 3b, between 5% AEP and 1% AEP is Flood Zone 3a. Flood Zone 2 is considered to be between 1% AEP and 0.1% AEP. Anything greater than 0.1% is Flood Zone 1.

KEY PLAN

Legend
- **Flood Zone 3b**
- **Flood Zone 3a**
- **Flood Zone 2**

**NOTES**

AEP = Annual Exceedance Probability. The probability of a flood of a particular magnitude, or greater, occurring in any given year.

- 5% AEP = 1 in 20yr flood event
- 1% AEP = 1 in 100yr flood event
- 0.1% AEP = 1 in 1000yr flood event


**STUDY REACHES**

Name: Flood Zone Maps

OS Map Sheet: Yate

DATE OF ISSUE: Nov 2011

REV NO: 3

REV DATE: 03/09/2012

DRAWING NO:

F2: Yate
AEP = Annual Exceedance Probability. The probability of a flood of a particular magnitude, or greater, occurring in any given year.

- 5% AEP = 1 in 20yr flood event
- 1% AEP = 1 in 100 yr flood event
- 0.1% AEP = 1 in 1000yr flood event

Generally, the Flood Zone Classification is based around the return periods. Anything less than a 5% AEP is considered Flood zone 3b, between 5% AEP and 1% AEP is Floodzone 3a. Floodzone 2 is considered to be between 1% AEP and 0.1% AEP. Anything greater than 0.1% is Floodzone 1.

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Legend

- Flood Zone 3b
- Flood Zone 3a
- Flood Zone 2

Elevations above Ordnance Datum

AEP = Annual Exceedance Probability. The probability of a flood of a particular magnitude, or greater, occurring in any given year.

- 5% AEP = 1 in 20yr flood event
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NOTES

AEP = Annual Exceedance Probability. The probability of a flood of a particular magnitude, or greater, occurring in any given year.

5% AEP = 1 in 20yr flood event
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Generally, the Flood Zone Classification is based around the return periods. Anything less than a 5% AEP is considered Floodzone 3b, between 5% AEP and 1% AEP is Floodzone 3a. Floodzone 2 is considered to be between 1% AEP and 0.1% AEP. Anything greater than 0.1% AEP is Floodzone 1.

KEY PLAN

Legend

- Flood Zone 3a
- Flood Zone 3a Climate Change
- Flood Zone 2

Elevations above Ordnance Datum

0 3570 140 210 280

Metres

NOTES

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South Gloucestershire
Strategic Flood Risk Assessment

Appendices A, B and C.
A Maps
A1 Cribbs/Patchway
AEP = Annual Exceedance Probability. The probability of a flood of a particular magnitude, or greater, occurring in any given year.

4% AEP = 1 in 25yr flood event
1% AEP = 1 in 100yr flood event
0.1% AEP = 1 in 1000yr flood event

Generally, the Flood Zone Classification is based around the return periods. Anything less than a 5% AEP is considered Floodzone 3b. However, it was agreed with EA and SGC to use the 4% AEP for the Floodzone 3b of the River Frome for the purposes of this study. Between 5% AEP and 1% AEP is Floodzone 3a. Floodzone 2 is considered to be between 1% AEP and 0.1% AEP. Anything greater than 0.1% is Floodzone 1.

NOTES

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South Gloucestershire County Council, January 2011.
The DRAFT PFRA (2011) describes the Flood Maps for Surface Water as the locally agreed maps for surface water flooding, in accordance with the processes described in the EA’s PFRA Final Guidance (Section 3.5.1).

NOTES

KEY PLAN

Legend

FMfSW 200yr

> 0.3m
> 0.1m

Elephant above Ordnance Datum

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STUDY REACHES

Flood Map for Surface Water - 200yr

OS Map Sheet: Cribbs / Patchway New Neighbourhood

DATE OF ISSUE: August 2011

REV NO: REV DATE:

DRAWING NO:

FMfSW200yr/ Cribbs / Patchway New Neighbourhood
The DRAFT PFRA (2011) describes the Flood Maps for Surface Water as the locally agreed maps for surface water flooding, in accordance with the processes described in the EA's PFRA Final Guidance (Section 3.5.1).

NOTES

- Key Plan
- Elevations above Ordnance Datum
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- South Gloucestershire County Council, January 2011.

STUDY REACHES

Flood Map for Surface Water - 30yr

OS Map Sheet: Cribbs / Patchway New Neighbourhood

DATE OF ISSUE: August 2011

DRAWING NO:

FMSW30yr / Cribbs / Patchway New Neighbourhood
The historical data was provided by South Gloucestershire County Council for the use in the Level 2 SFRA.

**Legend**
- Development Areas
- Historical Flood Outlines
- Historical Flood Event
- Highways
- Avon Fire Service Call Outs
- EA FRIS Incidents
- Section 24 Incidents

**KEY PLAN**

- Elevations above Ordnance Datum

**STUDY REACHES**

- Historical Flood Events

**OS Map Sheet:** Cribbs / Patchway New Neighbourhood

**DATE OF ISSUE:** August 2011  **REV NO:** 2  **REV DATE:** New 2011

**DRAWING NO:** Historical / Cribbs / Patchway New Neighbourhood
1% AEP = Annual Exceedance Probability. The probability of a flood of a particular magnitude, or greater, occurring in any given year. 1% AEP = 1 in 100 yr flood event.
**NOTES**

AEP = Annual Exceedance Probability. The probability of a flood of a particular magnitude, or greater, occurring in any given year.

- 4% AEP = 1 in 25yr flood event
- 1% AEP = 1 in 100yr flood event
- 0.1% AEP = 1 in 1000yr flood event

Generally, the Flood Zone Classification is based around the return periods. Anything less than a 5% AEP is considered Floodzone 3a. However, it was agreed with EA and SGCC to use the 4% AEP for the Floodzone 3b of the River Trym for the purposes of this study. Between 5% AEP and 1% AEP is Floodzone 3a. Floodzone 2 is considered to be between 1% AEP and 0.1% AEP. Anything greater than 0.1% is Floodzone 1.

**KEY PLAN**

Elevations above Ordnance Datum

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South Gloucestershire County Council, January 2011.

**Legend**

- Flood Zone 3a
- Flood Zone 3a Climate Change
- Flood Zone 2
A2 North Yate
**NOTES**

AEP = Annual Exceedance Probability. The probability of a flood of a particular magnitude, or greater, occurring in any given year.

- 5% AEP = 1 in 20yr flood event
- 1% AEP = 1 in 100yr flood event
- 0.1% AEP = 1 in 1000yr flood event

Generally, the Flood Zone Classification is based around the return periods. Anything less than a 5% AEP is considered Floodzone 3b, between 5% AEP and 1% AEP is Floodzone 3a, Floodzone 2 is considered to be between 1% AEP and 0.1% AEP. Anything greater than 0.1% is Floodzone 1.

**KEY PLAN**

**Legend**

- **Flood Zone 3b**
- **Flood Zone 3a**
- **Flood Zone 2**

**STUDY REACHES**

**Flood Zone Maps**

OS Map Sheet: North Yate New Neighbourhood - Main

DATE OF ISSUE: Nov 2011

REV NO: 3

REV DATE:
The DRAFT PFRA (2011) describes the Flood Maps for Surface Water as the locally agreed maps for surface water flooding, in accordance with the processes described in the EA’s PFRA Final Guidance (Section 3.5.1).

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STUDY REACHES

Flood Map for Surface Water - 200yr
OS Map Sheet: North Yate New Neighbourhood - Main

DATE OF ISSUE: August 2011
REV NO: REV DATE:

DRAWING NO:
FMfSW200yr/ North Yate New Neighbourhood - Main
The DRAFT PFRA (2011) describes the Flood Maps for Surface Water as the locally agreed maps for surface water flooding, in accordance with the processes described in the EA's PFRA Final Guidance (Section 3.5.1).

NOTES

KEY PLAN

Elevations above Ordnance Datum

Legend

FMSW 30yr

> 0.3m

> 0.1m

STUDY REACHES

Flood Map for Surface Water - 30yr
OS Map Sheet: North Yate New Neighbourhood - Main

DATE OF ISSUE: August 2011
REV NO: REV DATE:

DRAWING NO:
FMSW30yr/North Yate New Neighbourhood - Main

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NOTES

Historical Flood Events

OS Map Sheet: North Yate New Neighbourhood - Main

DATE OF ISSUE: August 2011
REV NO: 2
REV DATE: November 2011

DRAWING NO:

Historical / North Yate New Neighbourhood - Main
NOTES

KEY PLAN

Legend

1% AEP Depth (m)

0.00 - 0.01
0.01 - 0.1
0.1 - 0.5
0.5 - 1
1.00 - 1.5
1.5 - 2.0
2.01 - 2.5
2.50 - 4.7

0 40 80 160 240 320
Metres

B+levations above Ordnance Datum

A
B
C
D

Il)

0 40 80 160 240 320

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STUDY REACHES

Depth 1% AEP

OS Map Sheet: North Yate New Neighbourhood - Main

DATE OF ISSUE: August 2011

REV NO: REV DATE:

DRAWING NO:

Depth 1% AEP: North Yate New Neighbourhood - Main
NOTES

ALLEVIATION PROPOSAL

1% +CC AEP Depth

(m)

0.00 - 0.01
0.01 - 0.1
0.1 - 0.5
0.5 - 1
1.00 - 1.5
1.5 - 2.0
2.01 - 2.5
2.50 - 4.7

Elevations above Ordnance Datum

D

and may lead to prosecution or civil proceedings. South Gloucestershire County Council, January 2011.

Depth 1% AEP plus Climate Change

North Yate New Neighbourhood - Main

DATE OF ISSUE: REV NO: REV DATE:

August 2011

NOTES

0.01 - 0.1
0.1 - 0.5
0.5 - 1
1.00 - 1.5
1.5 - 2.0
2.01 - 2.5
2.50 - 4.7

0 40 80 120 160 240 320

Metres

Elevations above Ordnance Datum

A

B

C

D

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South Gloucestershire Council

STUDY REACHES

Depth 1% AEP plus Climate Change

OS Map Sheet: North Yale New Neighbourhood - Main

DATE OF ISSUE: August 2011

REV NO: REV DATE:

DRAWING NO:

FZCC - North Yate New Neighbourhood - Main

STUDY REACHES
Flood Zone Map (Climate Change)

NOTES
AEP = Annual Exceedance Probability. The probability of a flood of a particular magnitude, or greater, occurring in any given year.
5% AEP = 1 in 20yr flood event
1% AEP = 1 in 100yr flood event
0.1% AEP = 1 in 1000yr flood event

Generally, the Flood Zone Classification is based around the return periods. Anything less than a 5% AEP is considered Floodzone 3b, between 5% AEP and 1% AEP is Floodzone 3a. Floodzone 2 is considered to be between 1% AEP and 0.1% AEP. Anything greater than 0.1% is Floodzone 1.

Legend
- Flood Zone 3a
- Flood Zone 3a Climate Change
- Flood Zone 2

Elevations above Ordnance Datum

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South Gloucestershire Map Service: Early 2011

This map is provided for general awareness and is not to be used for any specific site or design work.

This information is based on data from flood hazard mapping work undertaken by South Gloucestershire Council and other agencies.

Date of Issue: Nov 2011
Rev No: 2
Rev Date: Nov 2011
A3.1 Harry Stoke
Legend

1% +CC AEP Depth (m)

- 0.00 - 0.01
- 0.01 - 0.1
- 0.1 - 0.5
- 0.5 - 1
- 1.00 - 1.5
- 1.5 - 2.0
- 2.01 - 2.5
- 2.50 - 4.7

NOTES

KEY PLAN

Elevations above Ordnance Datum

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South Gloucestershire County Council, January 2011.

STUDY REACHES

A August 2011 Draft
B Nov 2011 Final

Depth 1% AEP plus Climate Change

OS Map Sheet: East of Harry Stoke New Neighbourhood

DATE OF ISSUE: August 2011
REV NO: REV DATE:

DRAWING NO:

Depth1%AEPCC/ East of Harry Stoke New Neighbourhood
AEP = Annual Exceedance Probability. The probability of a flood of a particular magnitude, or greater, occurring in any given year.

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- 0.1% AEP = 1 in 1000yr flood event

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NOTES

- Flood Zone 3b
- Flood Zone 3a
- Flood Zone 2

Elevations above Ordnance Datum

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STUDY REACHES

Flood Zone Maps

OS Map Sheet: East of Harry Stoke New Neighbourhood

DATE OF ISSUE: Nov 2011

REV NO: 2

DRAWING NO: F2 East of Harry Stoke New Neighbourhood
Legend
- Flood Zone 3a
- Flood Zone 3a Climate Change
- Flood Zone 2

Notes
AEP = Annual Exceedance Probability. The probability of a flood of a particular magnitude, or greater, occurring in any given year.

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Study reaches
A 30/08/2011 Draft
Nov 2011
Ü
10/11/2011 Final
FZCC/ East of Harry Stoke New Neighbourhood

Key plan
Elevations above Ordnance Datum

South Gloucestershire County Council, January 2011.

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STUDY REACHES
Flood Zone Maps (Climate Change)
OS Map Sheet: East of Harry Stoke New Neighbourhood
DATE OF ISSUE: Nov 2011
REV NO: 2
REV DATE: 10/11/2011
DRAWING NO: FZCC/ East of Harry Stoke New Neighbourhood
The DRAFT PFRA (2011) describes the Flood Maps for Surface Water as the locally agreed maps for surface water flooding, in accordance with the processes described in the EA's PFRA Final Guidance (Section 3.5.1).

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STUDY REACHES

Flood Map for Surface Water - 200yr

OS Map Sheet: East of Harry Stoke New Neighbourhood

DATE OF ISSUE: August 2011
REV NO: REV DATE:

DRAWING NO:

FMSW200yr/ East of Harry Stoke New Neighbourhood
The DRAFT PFRA (2011) describes the Flood Maps for Surface Water as the locally agreed maps for surface water flooding, in accordance with the processes described in the EA's PFRA Final Guidance (Section 3.5.1).
The historical data was provided by South Gloucestershire County Council for the use in the Local SFRA.

NOTES

Historical Flood Events

OS Map Sheet: East of Harry Stoke New Neighbourhood

DATE OF ISSUE: August 2011  REV NO: 2  REV DATE: Nov 2011

DRAWING NO:

Historical/ East of Harry Stoke New Neighbourhood
1% AEP Depth

Legend

Elevations above Ordnance Datum

NOTES

KEY PLAN

STUDY REACHES

A August 2011 Draft
B Nov 2011 Final
C

NOTES

AEP = Annual Exceedance Probability. The probability of a flood of a particular magnitude or greater, occurring in any given year. 1% AEP = 1 in 100 yr flood event.

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STUDY REACHES

Depth 1% AEP

OS Map Sheet: East of Harry Stoke New Neighbourhood

DATE OF ISSUE: August 2011

DRAWING NO:

Depth1%AEP/East of Harry Stoke New Neighbourhood
A3.2 Land east of Coldharbour Lane
The DRAFT PFRA (2011) describes the Flood Maps for Surface Water as the locally agreed maps for surface water flooding, in accordance with the processes described in the EA’s PFRA Final Guidance (Section 3.5.1).

NOTES

KEY PLAN

Elevations above Ordnance Datum

 Studying REACHES

FMfSW 30yr

> 0.3m

> 0.1m
The historical data was provided by South Gloucestershire County Council for the use in the Level 2 SFRA.

**Legend**

- **Development Areas**
- **Historical Flood Outlines**
- **Historical Flood Event**
- **Highways**
- **Avon Fire Service CallOuts**
- **EA FRIS Incidents**
- **Section 24 Incidents**

**Elevations above Ordnance Datum**

**STUDY REACHES**

**Historical Flood Events**

OS Map Sheet: E of Coldharbour & Sth of Bristol Bus

DATE OF ISSUE: August 2011  REV NO: 2  REV DATE: New 2011

DRAWING NO: Historical/E of Coldharbour & Sth of Bristol Bus
The DRAFT PFRA (2011) describes the Flood Maps for Surface Water as the locally agreed maps for surface water flooding, in accordance with the processes described in the EA's PFRA Final Guidance (Section 3.5.1).

NOTES

Legend

FMfSW 200yr

> 0.3m

> 0.1m

Elevations above Ordnance Datum

0 15 30 60 90 120 Metres

STUDY REACHES

Flood Map for Surface Water - 200yr

OS Map Sheet: E of Coldharbour & Sth of Bristol Bus

DATE OF ISSUE: August 2011

REV NO:

REV DATE:

DRAWING NO:

FMfSW200yr/ E of Coldharbour & Sth of Bristol Bus
A3.3 UWE
The DRAFT PFRA (2011) describes the Flood Maps for Surface Water as the locally agreed maps for surface water flooding, in accordance with the processes described in the EA’s PFRA Final Guidance (Section 3.5.1).
The historical data was provided by South Gloucestershire County Council for the use in the Level 2 SFRA.

NOTES
The University of the West of England

KEY PLAN

Legend

- Development Areas
- Historical Flood Outlines
- Historical Flood Event
- Highways
- Avon Fire Service CallOuts
- EA FRIS Incidents
- Section 24 Incidents

Elevations above Ordnance Datum

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STUDY REACHES

Historical Flood Events

OS Map Sheet: The University of the West of England

DATE OF ISSUE: August 2011  REV NO: 2  REV DATE: Nov 2011

DRAWING NO:

Historical  The University of the West of England
The DRAFT PFRA (2011) describes the Flood Maps for Surface Water as the locally agreed maps for surface water flooding, in accordance with the processes described in the EA's PFRA Final Guidance (Section 3.5.1).

NOTES

KEY PLAN

Elevations above Ordnance Datum

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STUDY REACHES

Flood Map for Surface Water - 200yr

OS Map Sheet: The University of the West of England

DATE OF ISSUE: August 2011

REVIEW NO: REV DATE:

DRAWING NO:

FMfSW200yr/ The University of the West of England
A4 Housing Opportunity Site at Thornbury
Legend

- **Flood Zone 3b**
- **Flood Zone 3a**
- **Flood Zone 2**

NOTES

- **AEP** = Annual Exceedance Probability. The probability of a flood of a particular magnitude, or greater, occurring in any given year.
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The DRAFT PFRA (2011) describes the Flood Maps for Surface Water as the locally agreed maps for surface water flooding, in accordance with the processes described in the EA’s PFRA Final Guidance (Section 3.5.1).
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NOTES

KEY PLAN

Elevations above Ordnance Datum

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STUDY REACHES

Flood Map for Surface Water - 30yr
OS Map Sheet: Housing Opportunity (Thornbury)
DATE OF ISSUE: August 2011

DRAWING NO:

FMI SW 30yr/Housing Opportunity (Thornbury)
NOTES
The historical data was provided by South Gloucestershire County Council for the use in the Level 2 SFRA.

KEY PLAN

Legend
- Development Areas
- Historical Flood Outlines
- Historical Flood Event
- Highways
- Avon Fire Service CallOuts
- EA FRIS Incidents
- Section 24 Incidents

STUDY REACHES

Historical Flood Events

OS Map Sheet: Housing Opportunity (Thornbury)

DATE OF ISSUE: August 2011 REV NO: 2 REV DATE: Nov 2011

DRAWING NO:

Historical / Housing Opportunity (Thornbury)
NOTES

AEP = Annual Exceedance Probability. The probability of a flood of a particular magnitude, or greater, occurring in any given year.

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KEY PLAN

Legend

- Flood Zone 3a
- Flood Zone 3a Climate Change
- Flood Zone 2

Elevations above Ordnance Datum

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South Gloucestershire County Council, January 2011.

STUDY REACHES

Flood Zone Maps (Climate Change)

OS Map Sheet: Housing Opportunity (Thornbury)

DATE OF ISSUE: Nov 2011
REV NO.: 3
REV DATE: 
DRAWING NO:
FZCC: Housing Opportunity (Thornbury)
B.1 River Trym
The probability of a flood of a particular magnitude, or greater, occurring in any given year.

- **AEP** = Annual Exceedance Probability. The probability of a flood of a particular magnitude, or greater, occurring in any given year.

- **4% AEP** = 1 in 25yr flood event
- **5% AEP** = 1 in 50yr flood event
- **6% AEP** = 1 in 100yr flood event
- **1% CC AEP** = 1 in 100yr plus Climate Change flood event
- **0.1% AEP** = 1 in 1000yr flood event

*It was agreed with EA and SGC to use the 4% AEP instead of the 5% AEP for the River Trym for the purposes of this study.*
AEP = Annual Exceedance Probability. The probability of a flood of a particular magnitude, or greater, occurring in any given year.

- 4% AEP = 1 in 25yr flood event
- 1% AEP = 1 in 100yr flood event
- 1% CC AEP = 1 in 100yr plus Climate Change flood event
- 0.1% AEP = 1 in 1000yr flood event

*It was agreed with EA and SSC to use the 4% AEP instead of the 5% AEP for the River Trym for the purposes of this study.*
LEGEND

4% Annual Exceedance Probability (m)

0.00 - 0.01
0.01 - 0.1
0.1 - 0.5
0.5 - 1
1.00 - 1.5
1.5 - 2.0
2.01 - 2.5
2.50 - 4.7

NOTES

AEP = Annual Exceedance Probability. The probability of a flood of a particular magnitude, or greater, occurring in any given year.

4% AEP = 1 in 25yr flood event
1% AEP = 1 in 100yr flood event
0.4% AEP = 1 in 500yr flood event

It was agreed with EA and SGC to use the 4% AEP instead of the 5% AEP for the River Trym for the purposes of this study.

STUDY REACHES

Depth

OS Map Sheet: River Trym

DATE OF ISSUE: Dec 2011
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REV DATE: 

DRAWING NO:

Depth: River Trym
than 0.1% is Floodzone 1.

Similarly, the Flood Zone Classification is based around the return periods. Anything less than a 5% AEP is considered Floodzone 3b. A map of the Flood Zone Classification is included as the Flood Zone Map for the purposes of this study. Between 5% AEP and 1% AEP is Floodzone 3a, Floodzone 2 is considered to be between 1% AEP and 0.1% AEP. Anything greater than 0.1% is Floodzone 1.

LEGEND

- Flood Zone 3b
- Flood Zone 3a
- Flood Zone 2
- Defended 1% AEP
- Defended 4% AEP

NOTES

AEP = Annual Exceedance Probability. The probability of a flood of a particular magnitude, or greater, occurring in any given year.

4% AEP = 1 in 25yr flood event
5% AEP = 1 in 100yr flood event
0.1% AEP = 1 in 1000yr flood event

Date Remarked

0 290 580 870 1,160

Elevations above Ordnance Datum

Study

Revision

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South Gloucestershire Council, January 2011.
AEP = Annual Exceedance Probability. The probability of a flood of a particular magnitude, or greater, occurring in any given year.

4% AEP = 1 in 25yr flood event
1% AEP = 1 in 100yr flood event
0.1% AEP = 1 in 1000yr flood event

Generally, the Flood Zone Classification is based around the return periods. Anything less than a 5% AEP is considered Floodzone 3b. However, it was agreed with EA and SGSC to use the 4% AEP for the Floodzone 3b of the River Trym for the purposes of this study. Between 5% AEP and 1% AEP is Floodzone 3a. Floodzone 2 is considered to be between 1% AEP and 0.1% AEP. Anything greater than 0.1% is Floodzone 1.

NOTES

LEGEND
- Flood Zone 3b
- Flood Zone 3a
- Flood Zone 2

STUDY REACHES
Flood Zone Maps
OS Map Sheet: River Trym

DATE OF ISSUE: Dec 2011
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DRAWING NO:
F2: River Trym

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Periods. Anything less than a 5% AEP is considered Floodzone 3b.

4% AEP = 1 in 25yr flood event
1% AEP = 1 in 100yr flood event
0.1% AEP = 1 in 1000yr flood event

Generally, the Flood Zone Classification is based around the return periods. Anything less than a 5% AEP is considered Floodzone 3b. However, it was agreed with EA and SGCC to use the 4% AEP for the Floodzone 3d of the River Trym for the purposes of this study.

Below is a map showing Flood Zone 3a and Flood Zone 3b. Flood Zone 3a is considered to be between 1% AEP and 2.5% AEP. Anything greater than 0.1% is Floodzone 1.

NOTES
AEP = Annual Exceedance Probability. The probability of a flood of a particular magnitude, or greater, occurring in any given year.

4% AEP = 1 in 25yr flood event
1% AEP = 1 in 100yr flood event
0.1% AEP = 1 in 1000yr flood event

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0.1% Annual Exceedance Probability

- Very low hazard - Caution
- Danger for some
- Danger for most
- Danger for all

---

**NOTES**

AEP = Annual Exceedance Probability. The probability of a flood of a particular magnitude, or greater, occurring in any given year.

- 4% AEP = 1 in 25yr flood event
- 1% AEP = 1 in 100 yr flood event
- 1% CC AEP = 1 in 100 yr plus Climate Change flood event
- 0.1% AEP = 1 in 1000yr flood event

*It was agreed with EA and SSGC to use the 4% AEP instead of the 5% AEP for the River Trym for the purposes of this study.*

---

**STUDY REACHES**

- Hazard

OS Map Sheet: River Trym

**DATE OF ISSUE:** Dec 2011

**REV NO:** 3

**REV DATE:**

**DRAWING NO:**

Hazard: River Trym
RIVER TRYM

Elevations above Ordnance Datum

STUDY REACHES

Hazard

OS Map Sheet: River Trym

DATE OF ISSUE: Dec 2011  REV NO: 3  REV DATE: 

DRAWING NO:
Hazard: River Trym

NOTES

AEP = Annual Exceedance Probability. The probability of a flood of a particular magnitude, or greater, occurring in any given year:

4% AEP = 1 in 25yr flood event
1% AEP = 1 in 100 yr flood event
1% CC AEP = 1 in 100 yr plus Climate Change flood event
0.1% AEP = 1 in 1000yr flood event.

"It was agreed with EA and SGC to use the 4% AEP instead of the 5% AEP for the River Trym for the purposes of this study."
NOTES

AEP = Annual Exceedance Probability. The probability of a flood of a particular magnitude, or greater, occurring in any given year:

- 1% AEP = 1 in 100 yr flood event
- 2% AEP = 1 in 50 yr flood event
- 4% AEP = 1 in 25 yr flood event
- 1% CC AEP = 1 in 100 yr plus Climate Change flood event
- 0.1% AEP = 1 in 1000 yr flood event

*It was agreed with EA and SGC to use the 4% AEP instead of the 5% AEP for the River Trym for the purposes of this study.

LEGEND

1% Annual Exceedance Probability

- Very low hazard - Caution
- Danger for some
- Danger for most
- Danger for all
**NOTES**

AEP = Annual Exceedance Probability. The probability of a flood of a particular magnitude, or greater, occurring in any given year.

- 4% AEP = 1 in 25yr flood event
- 1% AEP = 1 in 100yr flood event
- 0.1% AEP = 1 in 1000yr flood event

*It was agreed with EA and SSGC to use the 4% AEP instead of the 5% AEP for the River Trym for the purposes of this study.*

**KEY PLAN**

**LEGEND 4% Annual Exceedance Probability**

- Very low hazard - Caution
- Danger for some
- Danger for most
- Danger for all

**Elevations above Ordnance Datum**

- 145
- 290
- 580
- 870
- 1,160 Metres

**STUDY REACHES**

- Hazard
- OS Map Sheet: River Trym

**DATE OF ISSUE:** Dec 2011

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**REV DATE:** 
AEP = Annual Exceedance Probability. The probability of a flood of a particular magnitude, or greater, occurring in any given year.

4% AEP = 1 in 25yr flood event
1% AEP = 1 in 100yr flood event
1% CC AEP = 1 in 100yrs plus Climate Change flood event
0.1% AEP = 1 in 1000yr flood event

*It was agreed with EA and SGC to use the 4% AEP instead of the 5% AEP for the River Trym for the purposes of this study.

NOTES

KEY PLAN

Elevations above Ordnance Datum

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STUDY REACHES

Velocity

OS Map Sheet: River Trym

DATE OF ISSUE: Dec 2011
REV NO: 3
REV DATE:
LEGEND
1% Annual Exceedance Probability m³/s

- 0 - 0.2
- 0.2 - 0.5
- 0.5 - 1
- 1.0 - 2
- > 2

AEP = Annual Exceedance Probability. The probability of a flood of a particular magnitude, or greater, occurring in any given year.

4% AEP = 1 in 25yr flood event
1% AEP = 1 in 100yr flood event
0.1% AEP = 1 in 1000yr flood event

*It was agreed with EA and SGC to use the 4% AEP instead of the 5% AEP for the River Trym for the purposes of this study.

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KEY PLAN

STUDY REACHES

CTY OF BRISTLE

Elevations above Ordnance Datum

A
08/08/2011
Draft

B
10/11/2011
Final

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Velocity

OS Map Sheet: River Trym

DATE OF ISSUE: Dec 2011
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REV DATE:

DRAWING NO:

Velocity/River Trym
AEP = Annual Exceedance Probability. The probability of a flood of a particular magnitude, or greater, occurring in any given year.

- 4% AEP = 1 in 25yr flood event
- 1% AEP = 1 in 100yr flood event
- 1% CC AEP = 1 in 100yr plus Climate Change flood event
- 0.1% AEP = 1 in 1000yr flood event

*It was agreed with EA and SGC to use the 4% AEP instead of the 5% AEP for the River Trym for the purposes of this study.

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**KEY PLAN**

Elevations above Ordnance Datum

**LEGEND**

1% + CC AEP m³/s

- 0 - 0.2
- 0.2 - 0.5
- 0.5 - 1
- 1.0 - 2
- > 2

**STUDY REACHES**

Velocity

OS Map Sheet: River Trym

**DATE OF ISSUE**: Dec 2011  |  **REV NO**: 3  |  **REV DATE**:  

**DRAWING NO:**

Velocity/River Trym
**LEGEND**

4% Annual Exceedance Probability

- 0 - 0.2
- 0.2 - 0.5
- 0.5 - 1
- 1.0 - 2
- > 2

AEP = Annual Exceedance Probability. The probability of a flood of a particular magnitude, or greater, occurring in any given year.

4% AEP = 1 in 25yr flood event
1% AEP = 1 in 100yr flood event
1% C C AEP = 1 in 100 yr plus Climate Change flood event
0.1% AEP = 1 in 1000yr flood event

*It was agreed with EA and SGC to use the 4% AEP instead of the 5% AEP for the River Trym for the purposes of this study.*

**NOTES**

Elevations above Ordnance Datum

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AEP = Annual Exceedance Probability. The probability of a flood of a particular magnitude, or greater, occurring in any given year.

4% AEP = 1 in 25yr flood event
1% AEP = 1 in 100yr flood event
1% CC AEP = 1 in 100yr plus Climate Change flood event
0.1% AEP = 1 in 1000yr flood event

It was agreed with EA and SGC to use the 4% AEP instead of the 5% AEP for the River Trym for the purposes of this study.

NOTES

LEGEND

1 % AEP Defended

Elevations above Ordnance Datum

STUDY REACHES

Depth

OS Map Sheet: River Trym

DATE OF ISSUE: Dec 2011
REV NO: 2
REV DATE: 
AEP = Annual Exceedance Probability. The probability of a flood of a particular magnitude, or greater, occurring in any given year.

- 4% AEP = 1 in 25yr flood event
- 5% AEP = 1 in 50yr flood event
- 1% CE AEP = 1 in 100yr plus Climate Change flood event
- 0.1% AEP = 1 in 1000yr flood event

It was agreed with EA and SGC to use the 4% AEP instead of the 5% AEP for the River Trym for the purposes of this study.
AEP = Annual Exceedance Probability. The probability of a flood of a particular magnitude, or greater, occurring in any given year.

4% AEP = 1 in 25yr flood event
1% AEP = 1 in 100yr flood event
1% CCFEP = 1 in 10yr plus Climate Change flood event
0.1% AEP = 1 in 1000yr flood event

It was agreed with EA and SGC to use the 4% AEP instead of the 5% AEP for the River Trym for the purposes of this study.
B.2 Ham Brook
STUDY REACHES

- Hazard: Ham Brook

DATE OF ISSUE: Nov 2011
REV NO: 2
REV DATE: 

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KEY PLAN

NOTES

AEP = Annual Exceedance Probability. The probability of a flood of a particular magnitude, or greater, occurring in any given year.

- 5% AEP = 1 in 20yr flood event
- 1% AEP = 1 in 100yr flood event
- 1% AEP + CC = 1 in 100yr flood event plus Climate Change
- 0.1% AEP = 1 in 1000yr flood event
Hazard:

OS Map Sheet: Ham Brook

DATE OF ISSUE: Nov 2011

REV NO: 3  REV DATE: Nov 2011

Hazard: Ham Brook

LEGEND

1% Annual Exceedance Probability

- Very low hazard - Caution
- Danger for some
- Danger for most
- Danger for all

NOTES

AEP = Annual Exceedance Probability. The probability of a flood of a particular magnitude, or greater, occurring in any given year.

- 5% AEP = 1 in 20yr flood event
- 1% AEP = 1 in 100yr flood event
- 1% AEP + CC = 1 in 100yr flood event plus Climate Change
- 0.1% AEP = 1 in 1000yr flood event
NOTES

AEP = Annual Exceedance Probability. The probability of a flood of a particular magnitude, or greater, occurring in any given year.

5% AEP = 1 in 20yr flood event
1% AEP = 1 in 100 yr flood event
0.1% AEP = 1 in 1000yr flood event

LEGEND

5 % Annual Exceedance Probability

Very low hazard - Caution
Danger for some
Danger for most
Danger for all

Elevations above Ordnance Datum

DATE OF ISSUE: REV NO: REV DATE:

Hazard

OS Map Sheet: Ham Brook

DATE OF ISSUE: Nov 2011
REV NO: 1

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South Gloucestershire County Council, January 2011.

STUDY REACHES

Hazard: Ham Brook
LEGEND
1% Annual Exceedance Probability m³/s
- 0 - 0.2
- 0.2 - 0.5
- 0.5 - 1
- 1.0 - 2
- > 2

NOTES
AEP = Annual Exceedance Probability. The probability of a flood of a particular magnitude, or greater, occurring in any given year.

5% AEP = 1 in 20yr flood event
1% AEP = 1 in 100 yr flood event
0.1% AEP = 1 in 1000yr flood event

STUDY REACHES
Velocity
OS Map Sheet: Ham Brook
DATE OF ISSUE: Nov 2011
REV NO: 2
REV DATE: 
DRAWING NO: 
Velocity:Ham Brook
LEGEND

1% Annual Exceedance Probability m³/s

- 0 - 0.2
- 0.2 - 0.5
- 0.5 - 1
- 1.0 - 2
- > 2

NOTES

AEP = Annual Exceedance Probability. The probability of a flood of a particular magnitude, or greater, occurring in any given year.

5% AEP = 1 in 20yr flood event
1% AEP = 1 in 100 yr flood event
0.1% AEP = 1 in 1000yr flood event

KEY PLAN

Elevations above Ordnance Datum

STUDY REACHES

Velocity

OS Map Sheet: Ham Brook

DATE OF ISSUE: Nov 2011
REV NO: 2 REV DATE:
AEP = Annual Exceedance Probability. The probability of a flood of a particular magnitude, or greater, occurring in any given year.

5% AEP = 1 in 20yr flood event
1% AEP = 1 in 100 yr flood event
1% CC AEP = 1 in 100 yr plus Climate Change
0.1% AEP = 1 in 1000yr flood event
5% AEP = 1 in 20yr flood event
1% AEP = 1 in 100 yr flood event
0.1% AEP = 1 in 1000yr flood event

Elevations above Ordnance Datum

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AEP = Annual Exceedance Probability. The probability of a flood of a particular magnitude, or greater, occurring in any given year.

- 5% AEP = 1 in 20yr flood event
- 1% AEP = 1 in 100 yr flood event
- 0.1% AEP = 1 in 1000yr flood event

### STUDY REACHES

- **Depth**

OS Map Sheet: Ham Brook

DATE OF ISSUE: Nov 2011

REV NO: 3

DRAWING NO:

Depth: Ham Brook
Elevations above Ordnance Datum

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AEP = Annual Exceedance Probability. The probability of a flood of a particular magnitude, or greater, occurring in any given year.

5% AEP = 1 in 20yr flood event
1% AEP = 1 in 100yr flood event
0.1% AEP = 1 in 1000yr flood event

LEGEND

5% Annual Exceedance Probability

0.00 - 0.01
0.01 - 0.1
0.1 - 0.5
0.5 - 1
1.00 - 1.5
1.5 - 2.0
2.01 - 2.5
2.50 - 4.7

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DATE OF ISSUE: REV NO: REV DATE:

AEP = Annual Exceedance Probability. The probability of a flood of a particular magnitude, or greater, occurring in any given year.

5% AEP = 1 in 20yr flood event
1% AEP = 1 in 100yr flood event
0.1% AEP = 1 in 1000yr flood event

LEGEND

5% Annual Exceedance Probability

0.00 - 0.01
0.01 - 0.1
0.1 - 0.5
0.5 - 1
1.00 - 1.5
1.5 - 2.0
2.01 - 2.5
2.50 - 4.7

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AEP = Annual Exceedance Probability. The probability of a flood of a particular magnitude, or greater, occurring in any given year.

5% AEP = 1 in 20yr flood event
1% AEP = 1 in 100yr flood event
0.1% AEP = 1 in 1000yr flood event

LEGEND

5% Annual Exceedance Probability

0.00 - 0.01
0.01 - 0.1
0.1 - 0.5
0.5 - 1
1.00 - 1.5
1.5 - 2.0
2.01 - 2.5
2.50 - 4.7

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AEP = Annual Exceedance Probability. The probability of a flood of a particular magnitude, or greater, occurring in any given year.

- 5% AEP = 1 in 20yr flood event
- 1% AEP = 1 in 100 yr flood event
- 0.1% AEP = 1 in 1000yr flood event

Generally, the Flood Zone Classification is based around the return periods. Anything less than a 5% AEP is considered Floodzone 3b, between 5% AEP and 1% AEP is Floodzone 3a. Floodzone 2 is considered to be between 1% AEP and 0.1% AEP. Anything greater than 0.1% is Floodzone 1.

LEGEND

- Flood Zone 3b
- Flood Zone 3a
- Flood Zone 2

KEY PLAN

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STUDY REACHES

Flood Zone Map
OS Map Sheet: Ham Brook
DATE OF ISSUE: Nov 2011
REV NO: 2
REV DATE: Nov 2011
DRAWING NO: FZ/Ham Brook
B.3 Pickedmoor Brook
LEGEND

- Flood Zone 3b
- Flood Zone 3a
- Flood Zone 2

NOTES

AEP = Annual Exceedance Probability. The probability of a flood of a particular magnitude, or greater, occurring in any given year.

- 5% AEP = 1 in 20yr flood event
- 1% AEP = 1 in 100yr flood event
- 0.1% AEP = 1 in 1000yr flood event

Generally, the Flood Zone Classification is based around the return periods. Anything less than 5% AEP is considered Floodzone 3b, between 5% AEP and 1% AEP’s Floodzone 3a, Floodzone 2 is considered to be between 1% AEP and 0.1% AEP. Anything greater than 0.1% is Floodzone 1.

KEY PLAN

Elevations above Ordnance Datum

STUDY REACHES

A 30/08/2011 Draft

REV DATE REMARKS

Flood Zone Maps

OS Map Sheet: Pickedmoor Brook

DATE OF ISSUE: Nov 2011

REV NO: 3

DRAWING NO: FZ/ Pickedmoor Brook
AEP = Annual Exceedance Probability. The probability of a flood of a particular magnitude, or greater, occurring in any given year.

- 5% AEP = 1 in 20yr flood event
- 1% AEP = 1 in 100yr flood event
- 0.1% AEP = 1 in 1000yr flood event

Generally, the Flood Zone Classification is based around the return periods. Anything less than 0.5% AEP is considered Floodzone 3b; between 0.5% AEP and 1% AEP is Floodzone 3a; Floodzone 2 is considered to be between 1% AEP and 0.1% AEP. Anything greater than 0.1% is Floodzone 1.

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LEGEND

5% Annual Exceedance Probability

- Very low hazard - Caution
- Danger for some
- Danger for most
- Danger for all

AEP = Annual Exceedance Probability. The probability of a flood of a particular magnitude, or greater, occurring in any given year.

- 5% AEP = 1 in 20yr flood event
- 1% AEP = 1 in 100yr flood event
- 0.1% AEP = 1 in 1000yr flood event

NOTES

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LEGEND
0.1% Annual Exceedance Probability
m3/s

- 0 - 0.2
- 0.2 - 0.5
- 0.5 - 1
- 1.0 - 2
- > 2

NOTES
AEP = Annual Exceedance Probability. The probability of a flood of a particular magnitude, or greater, occurring in any given year.
5% AEP = 1 in 20yr flood event
1% AEP = 1 in 100yr flood event
0.1% AEP = 1 in 1000yr flood event

KEY PLAN
Elevations above Ordnance Datum
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STUDY REACHES
A 30/08/2011 Draft
REV DATE REMARKS
Velocity/Pickedmoor Brook

OS Map Sheet: Pickedmoor Brook
DATE OF ISSUE: Nov 2011
REV NO: 2
REV DATE:
AEP = Annual Exceedance Probability. The probability of a flood of a particular magnitude, or greater, occurring in any given year.

- 5% AEP = 1 in 20yr flood event
- 1% AEP = 1 in 100 yr flood event
- 0.1% AEP = 1 in 1000yr flood event

NOTES

KEY PLAN

Elevations above Ordnance Datum

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STUDY REACHES

Velocity

OS Map Sheet: Pickedmoor Brook

DATE OF ISSUE: Rev 1

REMARKS

DRAWING NO:

STUDY REACHES

Velocity

Pickedmoor Brook

Nov 2011
LEGEND
1% + CC AEP
m3/s
- 0.0 - 0.2
- 0.2 - 0.5
- 0.5 - 1
- 1.0 - 2
- > 2

Elevations above Ordnance Datum

STUDY REACHES
Velocity
OS Map Sheet: Pickedmoor Brook
DATE OF ISSUE: Nov 2011 REV NO: 3 REV DATE: 10/11/2011
DRAWING NO: Velocity/Pickedmoor Brook

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South Gloucestershire County Council, January 2011.
LEGEND

5% Annual Exceedance Probability
m3/s

- 0.2
- 0.5
- 1.0
> 2

AEP = Annual Exceedance Probability. The probability of a flood of a particular magnitude, or greater, occurring in any given year.

5% AEP = 1 in 20yr flood event
1% AEP = 1 in 100yr flood event
0.1% AEP = 1 in 1000yr flood event

NOTES

KEY PLAN

Elevations above Ordnance Datum

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**NOTES**

AEP = Annual Exceedance Probability. The probability of a flood of a particular magnitude, or greater, occurring in any given year.

- 5% AEP = 1 in 20yr flood event
- 1% AEP = 1 in 100yr flood event
- 0.1% AEP = 1 in 1000yr flood event

**LEGEND**

0.1% Annual Exceedance Probability (m)

- 0.00 - 0.01
- 0.01 - 0.1
- 0.1 - 0.5
- 0.5 - 1
- 1.00 - 1.5
- 1.5 - 2.0
- 2.01 - 2.5
- 2.50 - 4.7

**STUDY REACHES**

- Depth
  - OS Map Sheet: Pickedmoor Brook

**DATE OF ISSUE:** Nov 2011

**REV NO:** 2

**DRAWING NO:** Depth: Pickedmoor Brook

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LEGEND
1% Annual Exceedance Probability (m)

- 0.00 - 0.01
- 0.01 - 0.1
- 0.1 - 0.5
- 0.5 - 1
- 1.00 - 1.5
- 1.5 - 2.0
- 2.01 - 2.5
- 2.50 - 4.7

AEP = Annual Exceedance Probability. The probability of a flood of a particular magnitude, or greater, occurring in any given year.

- 5% AEP = 1 in 20yr flood event
- 1% AEP = 1 in 100yr flood event
- 0.1% AEP = 1 in 1000yr flood event

NOTES

- 10/11/2011 Final

STUDY REACHES

- Depth / Pickedmoor Brook

OS Map Sheet: Pickedmoor Brook

DATE OF ISSUE: Nov 2011

REV NO.: 2

DRAWING NO.: Depth / Pickedmoor Brook
5% Annual Exceedance Probability: The probability of a flood of a particular magnitude, or greater, occurring in any given year. 5% AEP = 1 in 20yr flood event 1% AEP = 1 in 100yr flood event 0.1% AEP = 1 in 1000yr flood event

NOTES

LEGEND

5% Annual Exceedance Probability

0.00 - 0.01
0.01 - 0.1
0.1 - 0.5
0.5 - 1
1.00 - 1.5
1.5 - 2.0
2.01 - 2.5
2.50 - 4.7

NOTES

KEY PLAN

Elevations above Ordnance Datum

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South Gloucestershire County Council, January 2011.

STUDY REACHES

Depth

OS Map Sheet: Pickedmoor Brook

DATE OF ISSUE: Nov 2011

REV NO: 3

DRAWING NO:

Depth: Pickedmoor Brook
B.4 Yate
NOTES
AEP = Annual Exceedance Probability. The probability of a flood of a particular magnitude, or greater, occurring in any given year.

5% AEP = 1 in 20yr flood event
1% AEP = 1 in 100yr flood event
1% AEP + CC = 1 in 100yr flood event plus Climate Change
0.1% AEP = 1 in 1000yr flood event

LEGEND
1%+ CC AEP
- Very low hazard - Caution
- Danger for some
- Danger for most
- Danger for all

Elevations above Ordnance Datum

DATE REMARKS

Elevations above Ordnance Datum

Yate

NOTES

STUDY REACHES
Hazard
OS Map Sheet: Yale
DATE OF ISSUE: Nov 2011
REV NO: 2
REV DATE:
DRAWING NO:
Hazard: Yale
AEP = Annual Exceedance Probability. The probability of a flood of a particular magnitude, or greater, occurring in any given year.

- 5% AEP = 1 in 20yr flood event
- 1% AEP = 1 in 100 yr flood event
- 1% AEP = CC= 1 in 100yr flood event plus Climate Change
- 0.1% AEP = 1 in 1000yr flood event

NOTES

KEY PLAN

LEGEND

1% Annual Exceedance Probability

- Very low hazard - Caution
- Danger for some
- Danger for most
- Danger for all

Elevations above Ordnance Datum

<table>
<thead>
<tr>
<th>Code</th>
<th>Date</th>
<th>Elevation</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>30/08/2011</td>
<td>72m</td>
</tr>
<tr>
<td>B</td>
<td>31/08/2011</td>
<td>84m</td>
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</tbody>
</table>

STUDY REACHES

Hazard

OS Map Sheet: Yate

DATE OF ISSUE: Rev 2011

REV NO: 3

DRAWING NO:

Hazard: Yate

South Gloucestershire Council, January 2011

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NOTES

AEP = Annual Exceedance Probability. The probability of a flood of a particular magnitude, or greater, occurring in any given year.

- 5% AEP = 1 in 20yr flood event
- 1% AEP = 1 in 100 yr flood event
- 1% AEP + CC = 1 in 100 yr flood event plus Climate Change
- 0.1% AEP = 1 in 1000yr flood event

LEGEND

5 % Annual Exceedance Probability

- Very low hazard - Caution
- Danger for some
- Danger for most
- Danger for all

KEY PLAN

STUDY REACHES

Hazard: Yate

DATE OF ISSUE: Nov 2011
REV NO: 2
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NOTES

AEP = Annual Exceedance Probability. The probability of a flood of a particular magnitude, or greater, occurring in any given year.

5% AEP = 1 in 20yr flood event
1% AEP = 1 in 100 yr flood event
0.1% AEP = 1 in 1000yr flood event

LEGEND

0.1% Annual Exceedance Probability
m3/s

0 - 0.2
0.2 - 0.5
0.5 - 1
1.0 - 2
> 2

KEY PLAN

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South Gloucestershire County Council, January 2011.
NOTES

AEP = Annual Exceedance Probability. The probability of a flood of a particular magnitude, or greater, occurring in any given year.

5% AEP = 1 in 20yr flood event
1% AEP = 1 in 100yr flood event
0.1% AEP = 1 in 1000yr flood event

LEGEND

0.1% Annual Exceedance Probability
(m)

0.00 - 0.01
0.01 - 0.1
0.1 - 0.5
0.5 - 1
1.00 - 1.5
1.5 - 2.0
2.01 - 2.5
2.50 - 4.7

METRES

DATE REMARKS

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South Gloucestershire County Council, January 2011

STUDY REACHES

Depth
OS Map Sheet: Yate

DATE OF ISSUE: Nov 2011 REV NO: 3 REV DATE:
DRAWING NO:
Depth: Yate
NOTES

AEP - Annual Exceedance Probability. The probability of a flood of a particular magnitude, or greater, occurring in any given year.

0.1% AEP = 1 in 1000yr flood event
1% AEP = 1 in 100yr flood event
1% CC AEP = 1 in 100yr plus Climate Change flood event

LEGEND

1% + CC AEP (m)

0.00 - 0.01
0.01 - 0.1
0.1 - 0.5
0.5 - 1
1.00 - 1.5
1.5 - 2.0
2.01 - 2.5
2.50 - 4.7

STUDY REACHES

Depth

OS Map Sheet: Yate

DATE OF ISSUE: Nov 2011 REV NO: 2 REV DATE: 
DRIVING NO: Depth Yate
**Legend**

- **5% Annual Exceedance Probability**
  - 0.00 - 0.01
  - 0.01 - 0.1
  - 0.1 - 0.5
  - 0.5 - 1
  - 1.00 - 1.5
  - 1.5 - 2.0
  - 2.01 - 2.5
  - 2.50 - 4.7

**Notes**

- AEP = Annual Exceedance Probability. The probability of a flood of a particular magnitude, or greater, occurring in any given year.
- 5% AEP = 1 in 20yr flood event
- 1% AEP = 1 in 100 yr flood event
- 0.1% AEP = 1 in 1000yr flood event

**Study Reaches**

- **Depth**
  - OS Map Sheet: Yate

**Date of Issue**: Nov 2011

**Drawing No.**: Depth: Yate
AEP = Annual Exceedance Probability. The probability of a flood of a particular magnitude, or greater, occurring in any given year.

5% AEP = 1 in 20yr flood event
1% AEP = 1 in 100yr flood event
0.1% AEP = 1 in 1000yr flood event

Generally, the Flood Zone Classification is based around the return periods. Anything less than a 5% AEP is considered Floodzone 3b, between 5% AEP and 1% AEP is Floodzone 3a; Floodzone 2 is considered to be between 1% AEP and 0.1% AEP. Anything greater than 0.1% is Floodzone 1.

**KEY PLAN**

**LEGEND**
- Flood Zone 3b
- Flood Zone 3a
- Flood Zone 2

**NOTES**
- Flood Zone Maps
- STUDY REACHES
- Flood Zone Map
- OS Map Sheet: Yate

**DATE OF ISSUE**: Nov 2011
**REV NO**: 2

**DRAWING NO**: F2/Yate
AEP = Annual Exceedance Probability. The probability of a flood of a particular magnitude, or greater, occurring in any given year.

- 5% AEP = 1 in 20yr flood event
- 1% AEP = 1 in 100yr flood event
- 0.1% AEP = 1 in 1000yr flood event

Generally, the Flood Zone Classification is based around the return periods. Anything less than a 5% AEP is considered Floodzone 3b, between 5% AEP and 1% AEP is Floodzone 3a. Floodzone 2 is considered to be between 1% AEP and 0.1% AEP. Anything greater than 0.1% is Floodzone 1.
C. Catchment Response Hydrographs
Scenario 1 - Baseline model

As outlined in section 6.3.1, this map shows the existing catchment wide flow response to an example flood event. This is the baseline to which all subsequent model results will be compared.

The results shown are based on a Reference event and are intended to show the potential relative effects of runoff from new development together with possible mitigation strategies.

The Reference event is based on existing flow estimates for a flood with 1% AER. It should be understood that the flood estimations used for the Reference event do not necessarily represent the greatest magnitude flood that could be expected and should be regarded as illustrating the general characteristics of the effects that might be observed.

An indicative value of the order of magnitude of the flow has been included on the graph for sole purposes. However, no absolute values should be extrapolated from these as it is not known if the storms have been representative they are. In particular, it would be necessary to perform a wider range of storm durations to identify the critical conditions.
Scenario 2 - Baseline with Climate Change

As outlined in section 6.3.2, this map shows the effects of Climate Change on flows within the catchment independent to the effect of the development.

For reference purposes the baseline (Scenario 1) results are also shown as a dashed black line.
As outlined in section 6.3.3, this map shows the potential effect of development on flows within the catchment should no on-site attenuation measures be implemented.

For reference purposes the baseline (Scenario 1) results are also shown as a dashed black line.
Scenario 4 - Baseline with Attenuated Development (SuDS)

As outlined in section 6.3.4, this map shows the potential effect of development on flows within the catchment assuming onsite attenuation measures (e.g. SuDS) have been implemented at all sites.

For reference purposes the baseline (Scenario 1) results are also shown as a dashed black line.
As outlined in section 6.7.1, this map shows the catchment wide response to the potential Strategic Option 1 - a potential in-line storage reservoir on the Upper Ladden Brook near Oldclose Farm (OS 369420, 188180).

For reference purposes the baseline (Scenario 1) results are also shown as a dashed black line.
As outlined in section 6.7.2, this map shows the catchment wide response to the potential Strategic Option 2 - a potential in-line storage reservoir on the Upper Ladden Brook upstream of Lower Lark’s Farm (OS 367880, 186960).

For reference purposes the baseline (Scenario 1) results are also shown as a dashed black line.
Scenario 7 - Strategic Option 3 - Storage on the Upper Frome - Increase Tubb's Bottom

As outlined in section 6.7.3, this map shows the catchment wide response to the potential Strategic Option 3 - a potential increase in the storage of the existing reservoir on the Upper Frome at Tubb's Bottom (OS 368010, 182790).

For reference purposes the baseline (Scenario 1) results are also shown as a dashed black line.

The results shown are based on a Reference event and are intended to show the potential relative effects of runoff from new development together with possible mitigation strategies.

It should be understood that the flow estimates used for the Reference event do not necessarily represent the greatest magnitude effect that could be expected and should be regarded as illustrating the general characteristics of the effects that might be observed.

An indicative value of the order of magnitude of the flow has been included on the graphs for scale purposes. However, no absolute values should be extracted from these graphs due to the uncertainties in the flow estimates and how representative they are. In particular it would be necessary to perform a wider range of storm datasets to identify the critical conditions.

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STUDY REACHES

OS Map Sheet: Catchment Flows - Strategic Option 3

DATE OF ISSUE: August 2011

REV NO: REV DATE:

DRAWING NO:

Catchment_Flows/Strategic3_TUBBS
Upper Ladden Brook

NOTES

Scenario 8 - Strategic Option 4 - Increased Conveyance on the Bradley Brook

As outlined in section 6.7.4, this map shows the catchment wide response to the potential Strategic Option 4 - a potential increase in channel capacity and bridge openings along approximately 5.5km of the Bradley Brook between just upstream of the M4 bridge (OS 363010, 181620) and the confluence with the River Frome at Whiteshill (OS 364580, 178910).

For reference purposes the baseline (Scenario 1) results are also shown as a dashed black line.

The results shown are based on a Reference event and are intended to show the potential relative effects of runoff from new development together with possible mitigation strategies.

The Reference event is based on existing flow estimates for a flood with 1% AEP.

It should be understood that the flow estimations used for the Reference event do not necessarily represent the greatest magnitude effect that could be expected and should be regarded as illustrating the general characteristics of the effects that might be observed.

An indicative value of the order of magnitude of the flow has been included on the graphs for scale purposes. However, no absolute values should be extracted from these graphs due to the uncertainties in the flow estimations and how representative they are. In particular it would be necessary to perform a wider range of storm durations to identify the critical conditions.

The Reference event is based on existing flow estimates for a flood with 1% AEP.

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STUDY REACHES

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OS Map Sheet: Strategic Option 4

DATE OF ISSUE: August 2011

REV NO: REV DATE:

DRAWING NO: Catchment_Flows/Strategic4_BB_Capacity
As outlined in section 6.7.5, this map shows the catchment wide response to the potential Strategic Option 5 - a potential in-line storage reservoir on the Upper Ladden Brook upstream of Lower Lark's Farm (OS 367879, 186959) previously outlined in Section 6.7.2, but with different operating rules.

For reference purposes the baseline (Scenario 1) results are also shown as a dashed black line.
The results shown are based on a Reference event and are intended to show the potential relative effects of runoff from new development together with possible mitigation strategies. The Reference event is based on existing flow estimates for a flood with 1% AEP. An indicative value of the order of magnitude of the flow has been included on the graphs for scale purposes. However, no absolute values should be extracted.

The results shown are based on a Reference event and are intended to show the potential relative effects of runoff from new development together with possible mitigation strategies. The Reference event is based on existing flow estimates for a flood with 1% AEP. It should be understood that the flow estimations used for the Reference event do not necessarily represent the greatest magnitude effect that could be expected and should be regarded as illustrating the general characteristics of the effects that might be observed.

An indicative value of the order of magnitude of the flow has been included on the graphs for scale purposes. However, no absolute values should be extracted. It should be understood that the flow estimations used do not necessarily represent the greatest magnitude effect that could be expected and should be regarded as illustrating the general characteristics of the effects that might be observed. In particular, it would be necessary to perform a wider range of storm durations to identify the critical conditions.

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STUDY REACHES

OS Map Sheet: Catchment Flows - Strategic Option 6

DATE OF ISSUE: August 2011

REV NO: REV DATE:

DRAWING NO:

Catchment_Flows/Strategic6_BBRES3a

NOTES

Scenario 10 - Strategic Option 6 - Storage on the Bradley Brook - Reservoir 3a

As outlined in section 6.7.6, this map shows the catchment wide response to the potential Strategic Option 6 - a potential in-line storage reservoir on the Bradley Brook upstream of Sturden Court (OS 364510, 179810)

For reference purposes the baseline (Scenario 1) results are also shown as a dashed black line.
Scenario 11 - Strategic Option 7 - Storage on the Ham Brook

As outlined in section 6.7.7 this map shows the catchment wide response to the potential Strategic Option 7 - a potential increase in storage on the Ham Brook upstream of the M32 Bridge (OS 363580, 178970)

For reference purposes the baseline (Scenario 1) results are also shown as a dashed black line.
Scenario 12 - Strategic Option 8 - Increased Storage on Ladden Brook and Upper Frome

As outlined in section 6.7.8 this map shows the catchment wide response to the potential Strategic Option 8 - a potential combining the works outlined in scenario 6 and scenario 7 to create a new reservoir on the Ladden Brook (see Section 6.7.2 for more detail) as well as an increase in the capacity of Tubb's Bottom (see Section 6.7.3 for more detail).

For reference purposes the baseline (Scenario 1) results are also shown as a dashed black line.

The results shown are based on a Reference event and are intended to show the potential relative effects of runoff from new development together with possible mitigation strategies.

The Reference event is based on existing flow estimates for flood with 1% AEP. It should be understood that the flow estimations used for the Reference event do not necessarily represent the greatest magnitude effect that could be expected and should be regarded as illustrating the general characteristics of the effects that might be observed.

An indicative value of the order of magnitude of the flow has been included on the graphs for scale purposes. However, no absolute values should be extracted from the graphs. The graphs are intended to represent the relative characteristics, and should not be used to represent the true magnitude of the flow.

The results shown are based on a Reference event and are intended to show the potential relative effects of runoff from new development together with possible mitigation strategies.

The Reference event is based on existing flow estimates for flood with 1% AEP. It should be understood that the flow estimations used for the Reference event do not necessarily represent the greatest magnitude effect that could be expected and should be regarded as illustrating the general characteristics of the effects that might be observed.

An indicative value of the order of magnitude of the flow has been included on the graphs for scale purposes. However, no absolute values should be extracted from the graphs. The graphs are intended to represent the relative characteristics, and should not be used to represent the true magnitude of the flow.
The results shown are based on a Reference event and are intended to show the potential relative effects of runoff from new development together with possible mitigation strategies.

The Reference event is based on existing flow estimates for a flood with 1% AEP. It should be understood that the flow estimations used for the Reference event do not necessarily represent the greatest magnitude effect that could be expected and should be regarded as illustrating the general characteristics of the effects that might be observed.

An indicative value of the order of magnitude of the flow has been included in the graphs for scale purposes. However, no absolute values should be extracted from these graphs due to the uncertainties in the flow estimations and how representative they are. In particular it would be necessary to perform a wider range of storm durations to identify the critical conditions.

For reference purposes the baseline (Scenario 1) results are also shown as a dashed black line.