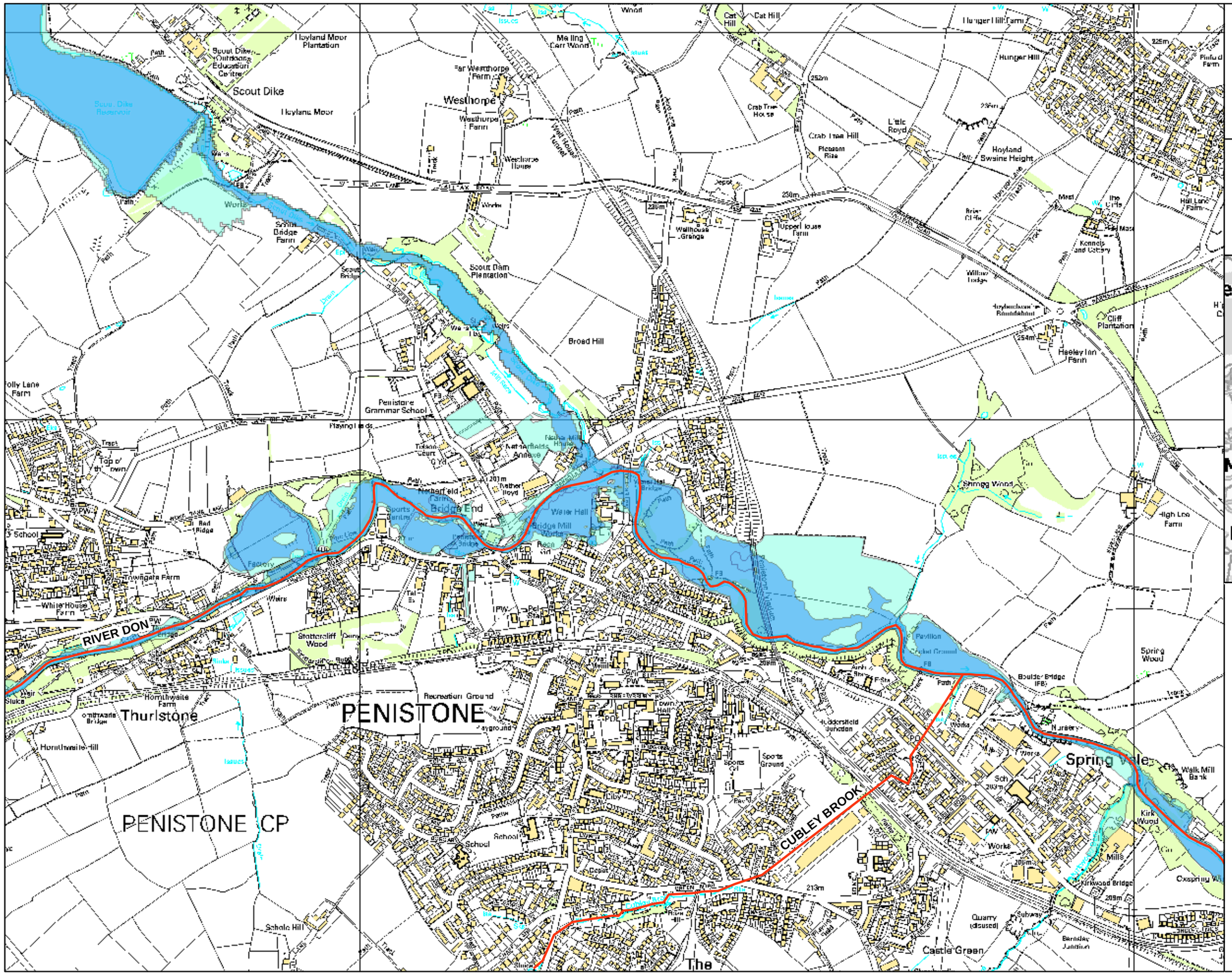
APPENDIX D
Environment Agency Data

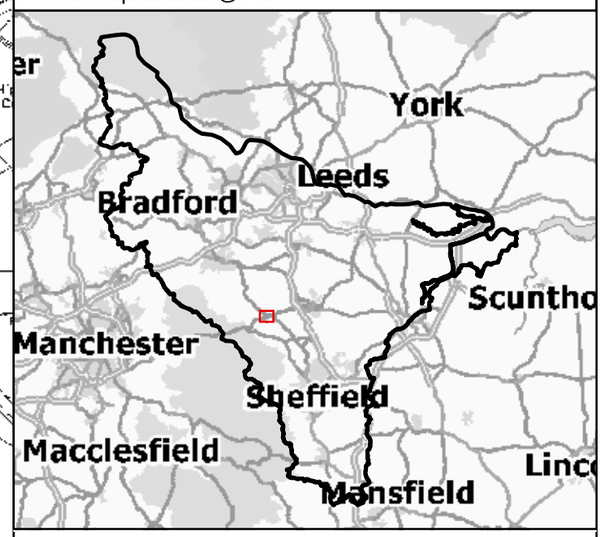
Flood Map centred at 424659 403823- Date Created: 08/05/2012 [Ref: 22023]



www.environment-agency.gov.uk

Scale: 1:10,000

when reproduced @ A3



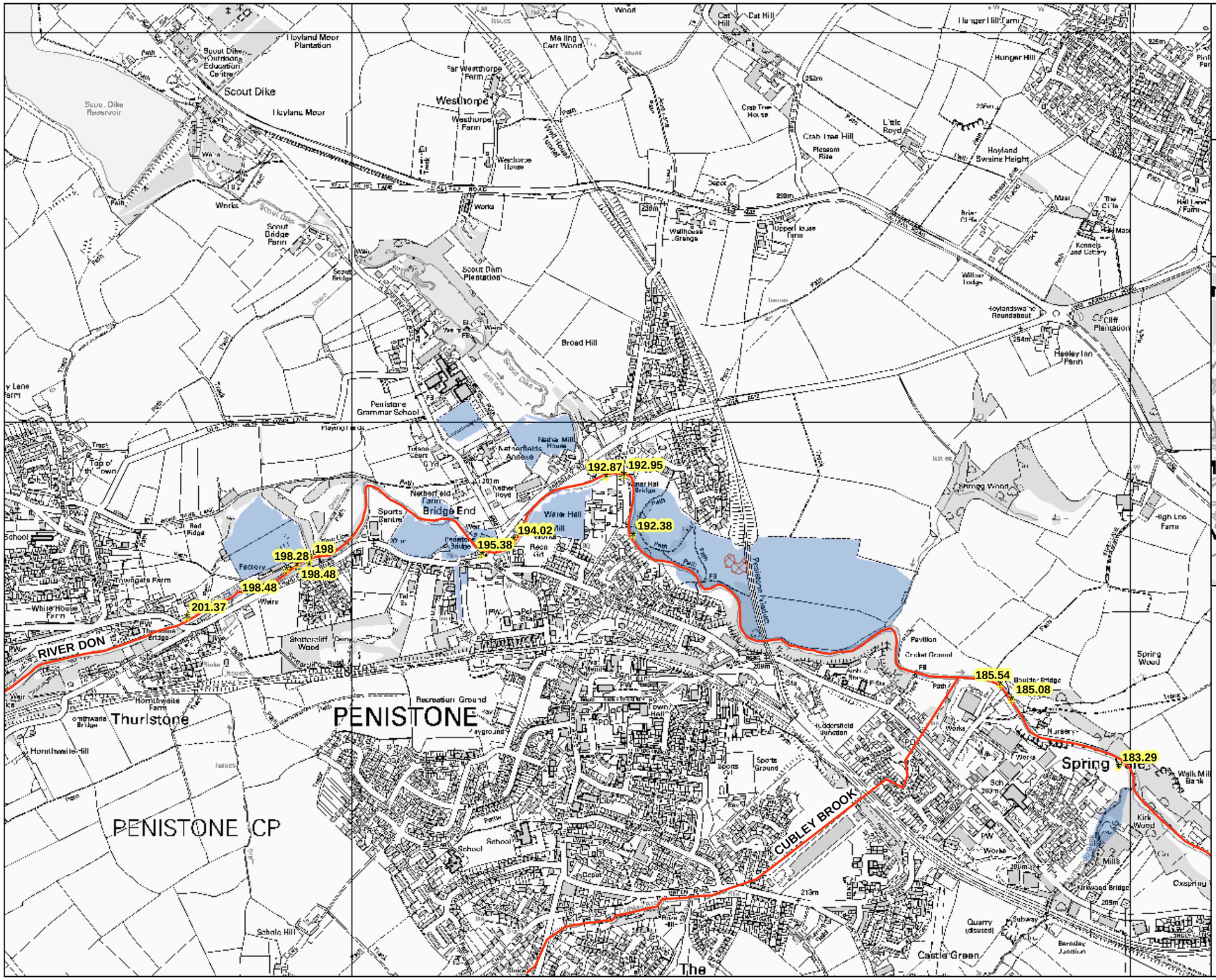
LEGEND

- Main River
- Flood Map Flood Defences
- Areas Benefitting From Flood Defences
- Flood Storage Areas
- Flood Zone 3 (FZ3)
- Flood Zone 2 (FZ2)

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Contact Us: National Customer Contact Centre, PO Box 544, Rotherham, S60 1BY. Tel: 08708 506 506 (Mon-Fri 8-6). Email: enquiries@environment-agency.gov.uk

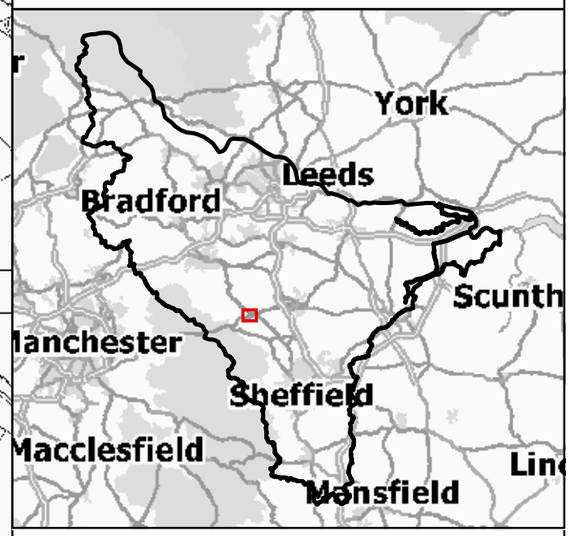
Flood History Map centred at 424659 403823 - dated:10/05/2012 [Ref: 22023]



www.environment-agency.gov.uk

Scale: 1:10,000

when reproduced @ A3



Flood Extents

Legend

- Main River
- Autumn 2000 Flood Event Flood Level (m)
- Autumn 2000 Flood Event Flood Extent
- 2007 Flood Events Flood Extent

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Layer: **Flood Event Outline By Date**

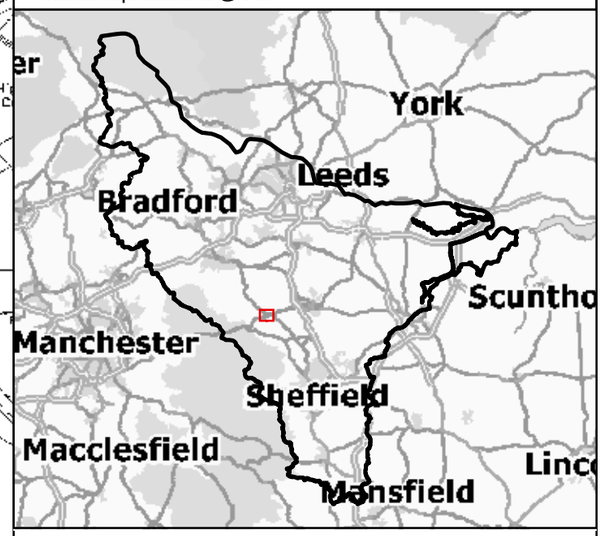
Flood Event Group Code	Outline Code	Name	Comments	Start Date	End Date	Estimated Return Period	Source Of Boundary	Source Of Flooding	Cause Of Flooding	Fluvial	Tidal	Coastal	No. Residential Properties Flooded	No. Comm Prope Flood
12311	32	2007 River Don Penistone		15/06/2007	30/06/2007		Local Authority	main river	channel capacity exceeded (no raised defences)	1	0	0		

Asset Location Map centred at 424659 403823- Date Created: 08/05/2012[Ref: 22023]

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Scale: 1:10,000

when reproduced @ A3



LEGEND

- Asset
- Main River

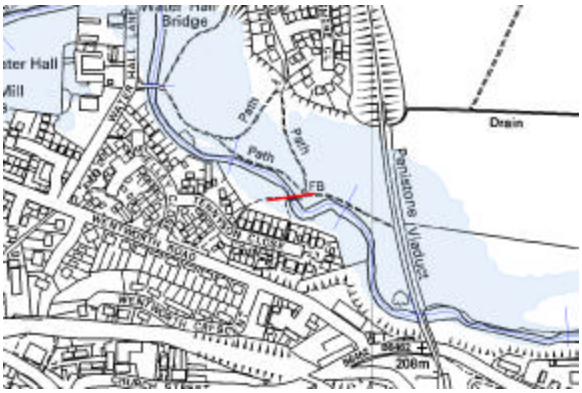
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AssetReference	AssetType	AssetDescription	AssetLocation	Bank	Maintainer	Design Standard	Overall Condition	Actual Upstream Crest Level	Actual Downstream Crest Level
1231302521801R01	maintained channel	Open Channel	Bullhouse Lane -Thurgoland to Bower Hill Penistone	right	private	No Data	2	No Data	No Data
1231302521801L01	maintained channel	Open Channel and High Ground	Penistone Road Bridge to Bower Hill /Oxspring Road Bridge	left	private	No Data	2	No Data	No Data
1231302521801L03	maintained channel	Open Channel and high ground	Bullhouse Br - Manchester Rd to Penistone Rd Bridge	left	private	No Data	2	No Data	No Data
1231302521801L02	maintained channel	MASONRY WALL WITH CONCRETE CAP	u/s of and PENISTONE BRIDGE	left	private	No Data	2	195.63	195.63
1231302521801B01	non-flood defence structure	WEIR	PENISTONE BRIDGE. NORTH OF PENISTONE	both	private	No Data	3	No Data	No Data

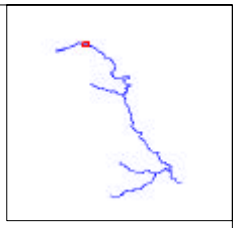
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Location Plan



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Cross Section References



River: RIVER DON

Reach: REACH 18

Chainage: 27269

Section Type: BRIDGE, SECTION, SPILL

OS NGR: SE 24894 03589

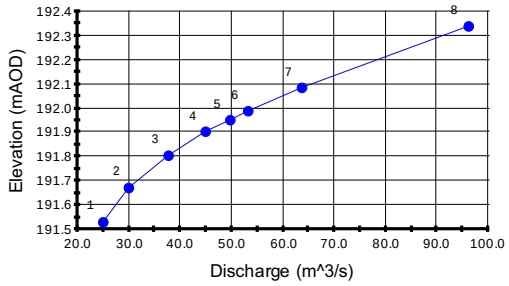
Survey Dwg Ref: N/A

Photograph Ref: DON18_27269us.JPG

Next
Section d/s: 27269d
Section u/s: 27363



Rating Curve



Number represents model profile number

Summary of Results

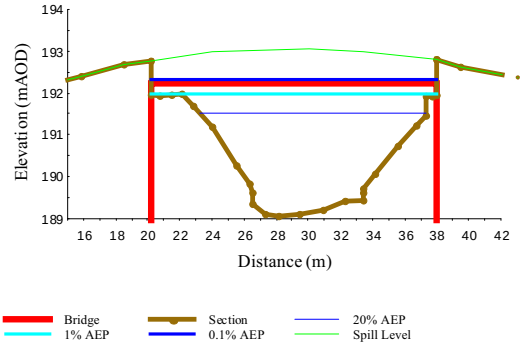
Profile No	AEP (%)	Flow (m^3/s)	Water Level (mAOD)	Velocity (m/s)
1	20.0	25.0	191.531	1.08
2	10.0	30.0	191.674	1.08
3	4.0	37.7	191.806	1.08
4	2.0	44.9	191.905	1.08
5	1.3	49.7	191.953	1.08
6	1.0	53.2	191.989	1.08
7	0.5	63.6	192.085	1.08
8	0.1	96.0	192.338	1.08

Level of Left Bank 191.989 mAOD

Level of Right Bank 191.938 mAOD

AEP: Annual Exceedance Probability = 1/T, where T = Return Period (Years)

Cross Section Profile



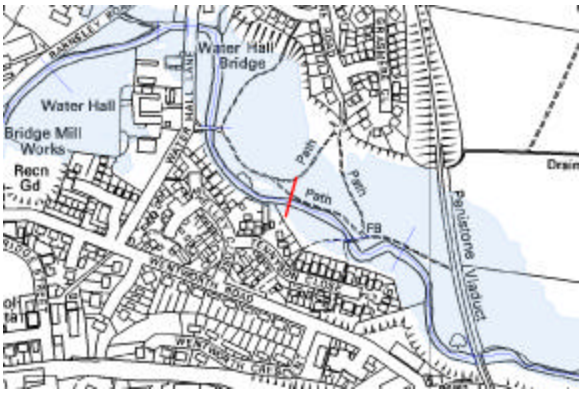
RIVER DON: REACH 18: CROSS SECTION NUMBER 27269u

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Print Date: 16/03/2007

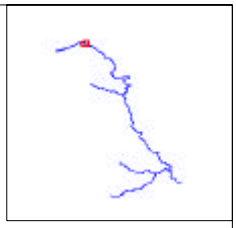
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Cross Section References



River: RIVER DON

Reach: REACH 18

Chainage: 27363

Section Type: SECTION

OS NGR: SE 24819 03643

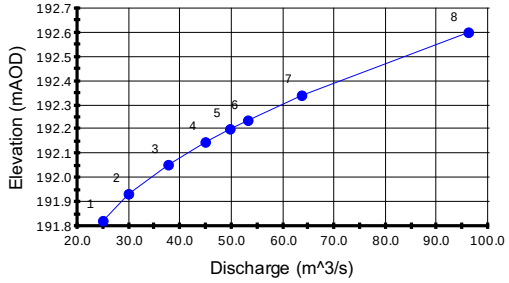
Survey Dwg Ref: N/A

Photograph Ref: DON18_27363.JPG

Next
Section d/s: 27269u
Section u/s: 27521d



Rating Curve



Number represents model profile number

Summary of Results

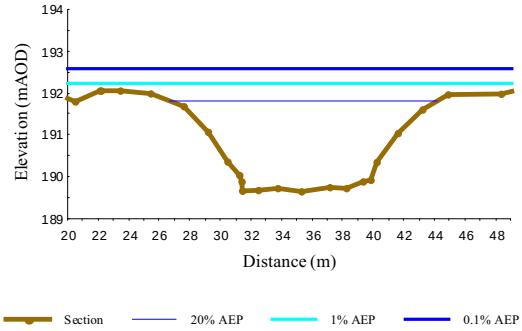
Profile No	AEP (%)	Flow (m^3/s)	Water Level (mAOD)	Velocity (m/s)
1	20.0	25.0	191.824	1.04
2	10.0	30.0	191.936	1.04
3	4.0	37.7	192.055	1.04
4	2.0	44.9	192.149	1.04
5	1.3	49.7	192.202	1.04
6	1.0	53.2	192.238	1.04
7	0.5	63.6	192.341	1.04
8	0.1	96.0	192.600	1.04

Level of Left Bank 191.998 mAOD

Level of Right Bank 191.975 mAOD

AEP: Annual Exceedance Probability = 1/T, where T = Return Period (Years)

Cross Section Profile



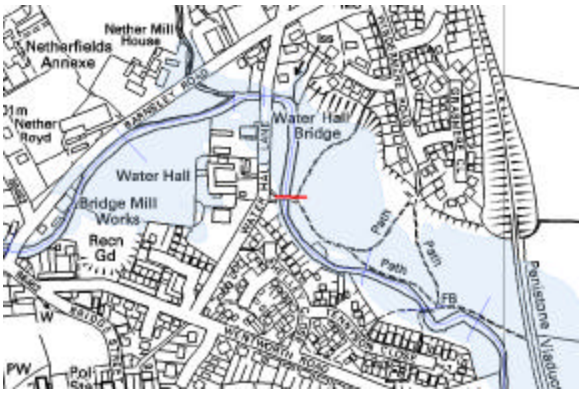
RIVER DON: REACH 18: CROSS SECTION NUMBER 27363

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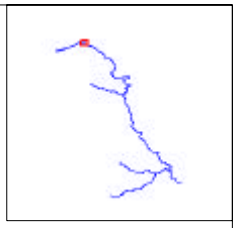
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Location Plan



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Cross Section References



River: RIVER DON

Reach: REACH 18

Chainage: 27521

Section Type: BRIDGE, SECTION, SPILL

OS NGR: SE 24721 03734

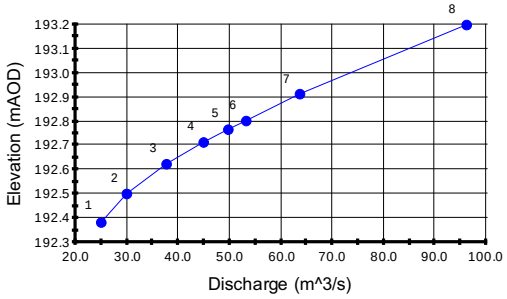
Survey Dwg Ref: N/A

Photograph Ref: DON18_27521.JPG

Next
Section d/s: 27521d
Section u/s: 27678d



Rating Curve



Number represents model profile number

Summary of Results

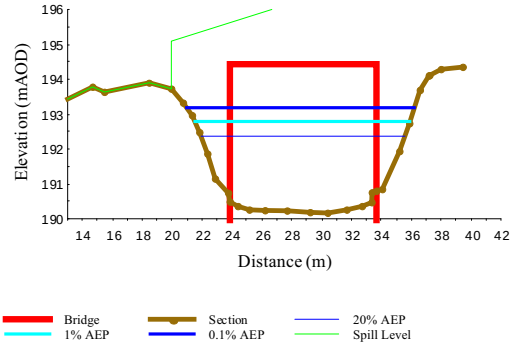
Profile No	AEP (%)	Flow (m^3/s)	Water Level (mAOD)	Velocity (m/s)
1	20.0	25.1	192.384	1.03
2	10.0	30.0	192.502	1.03
3	4.0	37.8	192.625	1.03
4	2.0	44.9	192.714	1.03
5	1.3	49.7	192.767	1.03
6	1.0	53.2	192.803	1.03
7	0.5	63.6	192.913	1.03
8	0.1	96.0	193.197	1.03

Level of Left Bank 193.909 mAOD

Level of Right Bank 194.293 mAOD

AEP: Annual Exceedance Probability = 1/T, where T = Return Period (Years)

Cross Section Profile



RIVER DON: REACH 18: CROSS SECTION NUMBER 27521u

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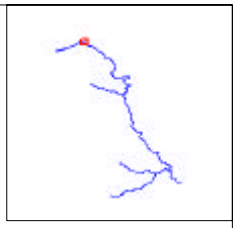
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ISIS Hydraulic Model Summary Sheet

Location Plan



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Cross Section References



River: RIVER DON

Reach: REACH 18

Chainage: 27678

Section Type: BRIDGE, SECTION, SPILL

OS NGR: SE 24686 03864

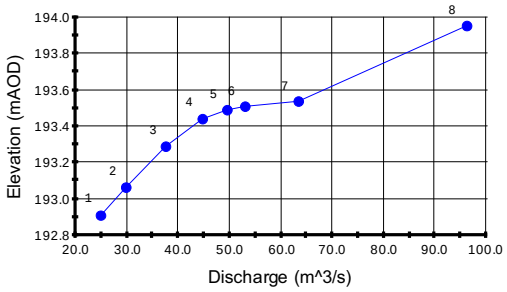
Survey Dwg Ref: N/A

Photograph Ref: DON18_27678.JPG

Next
Section d/s: 27678d
Section u/s: 27718d



Rating Curve



Number represents model profile number

Summary of Results

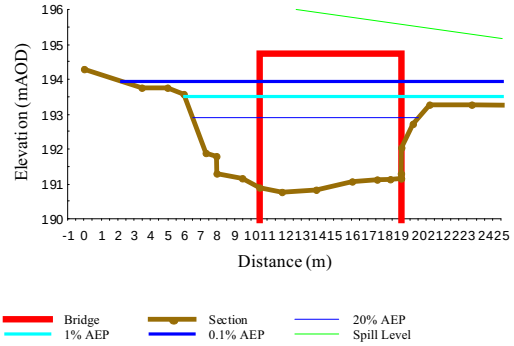
Profile No	AEP (%)	Flow (m^3/s)	Water Level (mAOD)	Velocity (m/s)
1	20.0	24.9	192.912	1.12
2	10.0	29.9	193.067	1.17
3	4.0	37.6	193.292	1.17
4	2.0	44.7	193.442	1.17
5	1.3	49.5	193.492	1.17
6	1.0	53.0	193.511	1.18
7	0.5	63.4	193.538	1.18
8	0.1	96.0	193.952	1.20

Level of Left Bank 193.764 mAOD

Level of Right Bank 193.282 mAOD

AEP: Annual Exceedance Probability = 1/T, where T = Return Period (Years)

Cross Section Profile



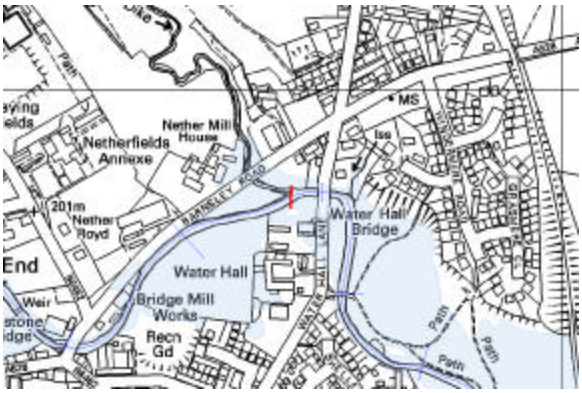
RIVER DON: REACH 18: CROSS SECTION NUMBER 27678u

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Cross Section References



River: RIVER DON

Reach: REACH 18

Chainage: 27718

Section Type: SECTION

OS NGR: SE 24646 03860

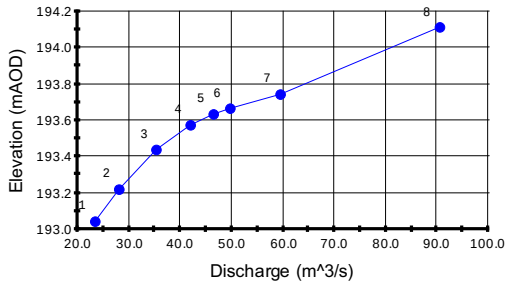
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Next
Section d/s: 27718d
Section u/s: 27870

No Photograph Available

Rating Curve



Number represents model profile number

Summary of Results

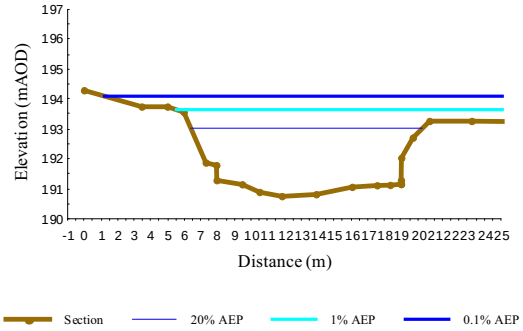
Profile No	AEP (%)	Flow (m^3/s)	Water Level (mAOD)	Velocity (m/s)
1	20.0	23.5	193.046	0.96
2	10.0	28.1	193.223	0.96
3	4.0	35.4	193.440	0.96
4	2.0	42.0	193.576	0.96
5	1.3	46.5	193.635	0.96
6	1.0	49.7	193.666	0.96
7	0.5	59.4	193.743	0.96
8	0.1	90.4	194.112	0.97

Level of Left Bank 193.764 mAOD

Level of Right Bank 193.282 mAOD

AEP: Annual Exceedance Probability = 1/T, where T = Return Period (Years)

Cross Section Profile



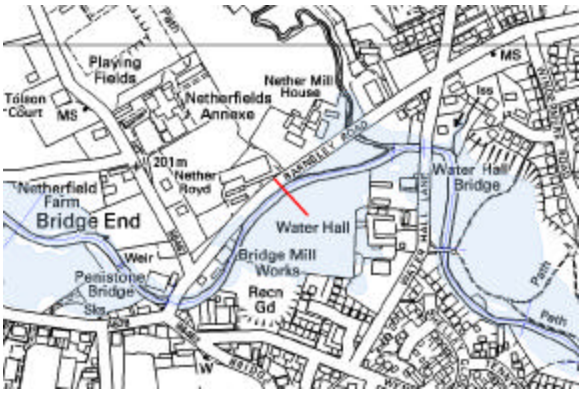
RIVER DON: REACH 18: CROSS SECTION NUMBER 27718u

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Print Date: 16/03/2007

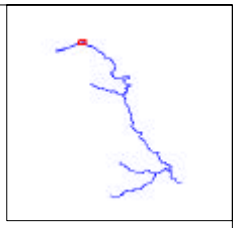
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ISIS Hydraulic Model Summary Sheet

Location Plan



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Cross Section References



River: RIVER DON

Reach: REACH 18

Chainage: 27870

Section Type: SECTION

OS NGR: SE 24514 03802

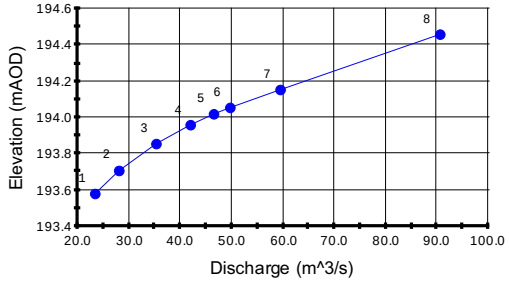
Survey Dwg Ref: N/A

Photograph Ref: DON18_27870.JPG

Next
Section d/s: 27718u
Section u/s: 28100d



Rating Curve



Number represents model profile number

Summary of Results

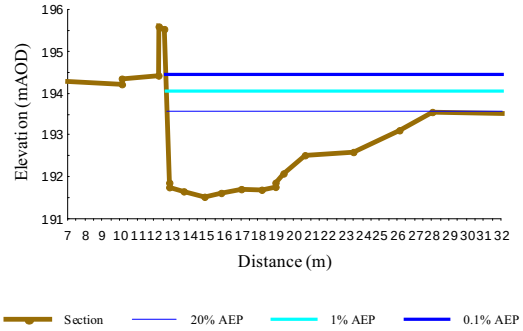
Profile No	AEP (%)	Flow (m^3/s)	Water Level (mAOD)	Velocity (m/s)
1	20.0	23.5	193.582	1.32
2	10.0	28.1	193.709	1.32
3	4.0	35.4	193.856	1.32
4	2.0	42.0	193.959	1.32
5	1.3	46.5	194.019	1.32
6	1.0	49.7	194.054	1.32
7	0.5	59.4	194.152	1.32
8	0.1	90.4	194.457	1.32

Level of Left Bank 195.528 mAOD

Level of Right Bank 193.557 mAOD

AEP: Annual Exceedance Probability = 1/T, where T = Return Period (Years)

Cross Section Profile



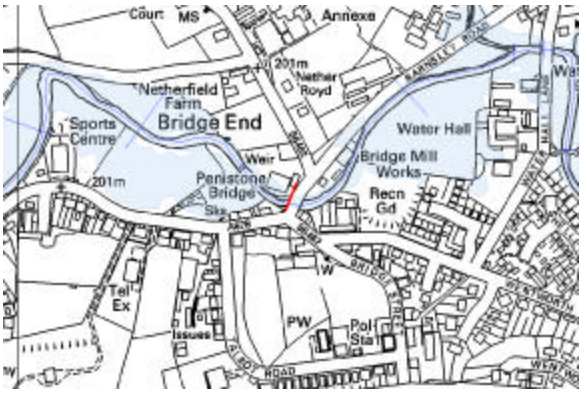
RIVER DON: REACH 18: CROSS SECTION NUMBER 27870

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Print Date: 16/03/2007

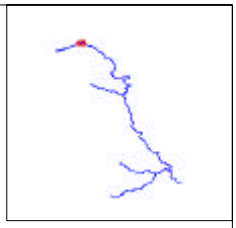
Environment Agency - North East Region
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Location Plan



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Cross Section References



River: RIVER DON

Reach: REACH 18

Chainage: 28100

Section Type: BRIDGE, SECTION, SPILL

OS NGR: SE 24356 03673

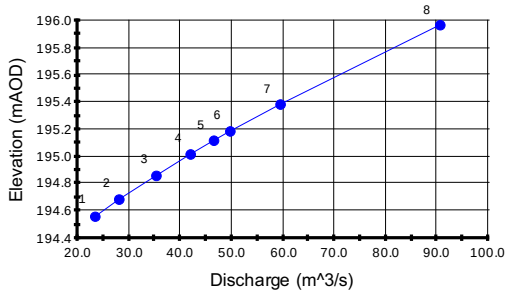
Survey Dwg Ref: N/A

Photograph Ref: DON18_28100us.JPG

Next
Section d/s: 28100d
Section u/s: 28180d



Rating Curve



Number represents model profile number

Summary of Results

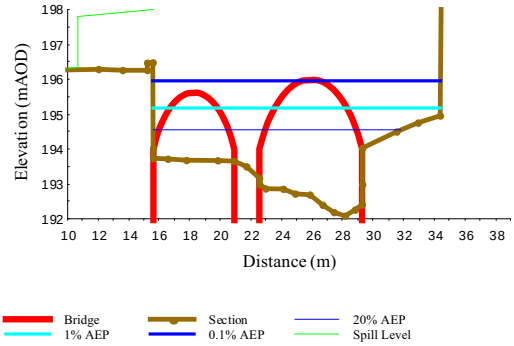
Profile No	AEP (%)	Flow (m^3/s)	Water Level (mAOD)	Velocity (m/s)
1	20.0	23.5	194.564	1.16
2	10.0	28.1	194.690	1.26
3	4.0	35.4	194.862	1.40
4	2.0	42.0	195.019	1.49
5	1.3	46.5	195.121	1.54
6	1.0	49.7	195.188	1.58
7	0.5	59.4	195.384	1.69
8	0.1	90.4	195.966	1.84

Level of Left Bank 196.485 mAOD

Level of Right Bank 198.765 mAOD

AEP: Annual Exceedance Probability = 1/T, where T = Return Period (Years)

Cross Section Profile

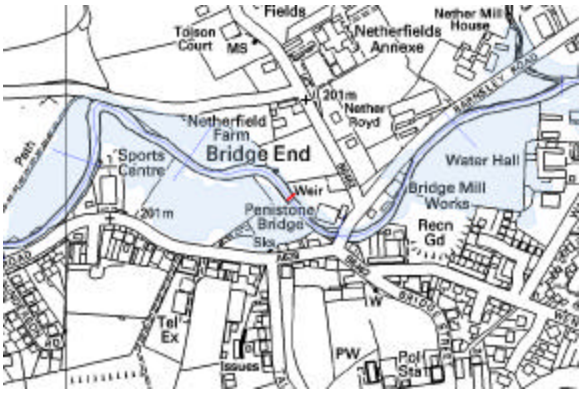


RIVER DON: REACH 18: CROSS SECTION NUMBER 28100u

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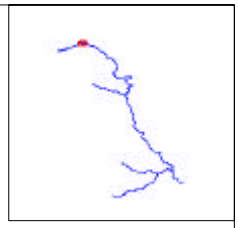
Print Date: 16/03/2007

Location Plan



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Cross Section References



River: RIVER DON

Reach: REACH 18

Chainage: 28180

Section Type: SECTION, SPILL

OS NGR: SE 24293 03714

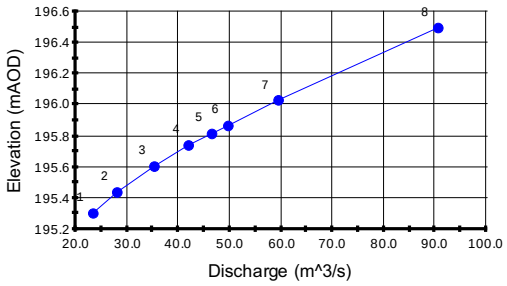
Survey Dwg Ref: N/A

Photograph Ref: DON18_28180us.JPG

Next
Section d/s: 28180d
Section u/s: 28338



Rating Curve



Number represents model profile number

Summary of Results

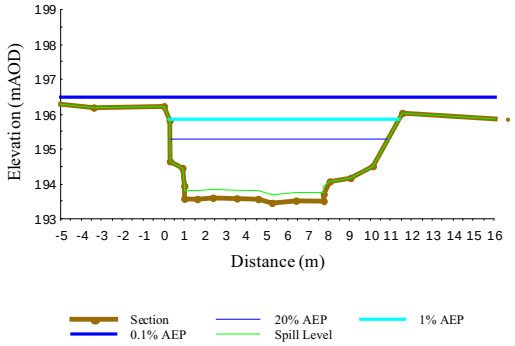
Profile No	AEP (%)	Flow (m^3/s)	Water Level (mAOD)	Velocity (m/s)
1	20.0	23.5	195.306	1.56
2	10.0	28.1	195.441	1.58
3	4.0	35.4	195.608	1.57
4	2.0	42.0	195.742	1.58
5	1.3	46.5	195.816	1.58
6	1.0	49.7	195.867	1.57
7	0.5	59.4	196.030	1.57
8	0.1	90.4	196.493	1.58

Level of Left Bank 196.235 mAOD

Level of Right Bank 196.045 mAOD

AEP: Annual Exceedance Probability = 1/T, where T = Return Period (Years)

Cross Section Profile



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