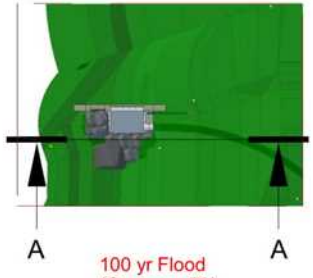
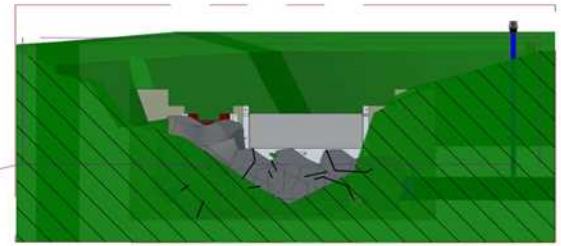
Nant Y Betws Intake
Front Elevation, Levels and Take Calculations

Plan View : Scale 1 : 250



Point	Level
Top Peg A	237,656
Top Peg B	237,830
Top Peg 0	237,306
Mark CX1	242,266
Mark CX2	241,059

Section A-A
Scale 1 : 75

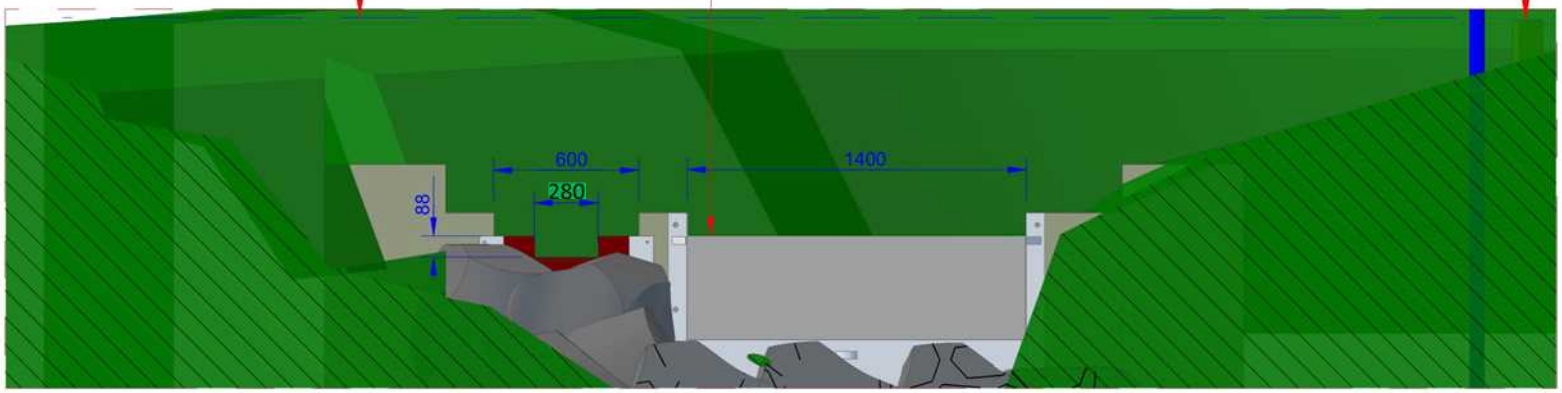


A
Detail A

100 yr Flood
(Qmean x 73)
Level 237,841
Not changed by building weir
Weir positioned at existing natural step
and does not raise existing water level

Weir Crest
Level 236,941

Peg B
Level 237,830



Take

Total Crest Width : 1400mm + 600mm = 2000mm
Screen Width : 1400mm
Take : 1400/2000 = 70%

Hands-off-flow

Calculation of flow over rectangular broad notch in stop log:
Discharge coefficient, Cd = 1.6
Notch depth, h = 0.088m
Notch width, w = 0.280m

Q = Cd*w*h^1.5
= 1.6*0.28*0.088^1.5
=11.7 lps

0 500 1000mm

All levels relative to Newlyn. All dimensions in mm.

Client : **Antur Waunfawr**
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Drawn By : MJP

Date : 03/04/17
Scale : 1 : 25 @ A4
Drawing No : 170304MP01
Version : 1

Revision Details

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