

# Rhymney Bridge No2

## Overview:

Site Location:	>> Rhymney, South Wales
Client:	>> Skanska/DCC
Contract Value:	>> £1,250,000
Project Duration:	>> 34 weeks



The existing spillway structure at “Rhymney Bridge” was highlighted for major improvements as it had fallen into a bad state of repair. The scheme itself imposed numerous challenges throughout the project, due to its geographical location, a “fast filling” reservoir, SSSI & placing of RC on a steep incline.

The scope of works was for a complete renovation of existing spillway, including the following elements:

- 300mm thick RC floor
- 300/450mm thick 2.800m high RC walls
- Installation of associated storm drainage
- Construction of new “V Notch” chamber
- Installation/diversion of “twin” scour pipes
- 450mm tunnel main replacement & associated connections
- Installation of GRP hand railing
- Desilting of existing “forebay” & installation of high level “trash screen”.



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This project was the fourth spillway improvement scheme undertaken by DCC & the second delivered by Lewis Civil Engineering Limited. It was a very high profile project & had high risk elements associated with the scheme.

- 60 individual concrete pours
- Placement of 610m<sup>3</sup> of C40/50 concrete & 300m<sup>3</sup> of “no fines” concrete
- Fixing of 90t of associated reinforcement
- 20 Nr pump visits ranging from 21-63m boom
- Completion of scheme in allocated time period & budget
- Average 19 Nr of men on site per day of an appropriate trade/supervisory background



During the project a number of key personnel from DCC/Skanska visited site & commented that the scheme was of a very complex nature & due to forward planning & co-ordination was a very well organised site.



During the construction phase of the scheme an employee of Lewis Civil Engineering was nominated and won the Skanska “IFE” (Incident Free Environment) award for the alliance framework. Additionally the site team won Skanska’s team of the month award for February, 2017.



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