Further information:

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Project Description number:

EVY0395

Project Type

Flood Risk/Consequence Assessment

Flood Forecasting

Detailed Design

Calibration & Optimisation

Flood Map Challenges

Scour & Geomorphology

Water Framework Directive

Environmental Impact Assessment

Training

Key Words:

Flood Risk

Hydraulic Modelling

Optioneering

Client and stakeholders:

Aeternum Energy (IOM) Ltd.

Blackburn Mill Phase 1

Edenvale Young were commissioned by Aeturnum Energy (IOM) Ltd. to undertake modelling to support a Flood Risk Assessment for the redevelopment of Blackburn Mill on the River Roddlesworth to the west of Blackburn in Lancashire.

Illustration 1: Former SAPPI Blackburn Mill site

Project Details

The aims of the study were to:

- Build an ISIS-TUFLOW model of the site with new survey data,
- Investigate the current sources of flood risk to the site,
- Investigate options to mitigate potential flooding on the site.

The site is shown to be mainly within Flood Zone 3 by Environment Agency mapping.

The River Roddlesworth runs underneath the site of the former paper mill through a 290m long culvert. This has been shown to be a source of flooding while surcharged.

In addition there is a risk of breaching from two reservoirs to the west and south of the development site. The Mill Lodge Reservoir is currently used as a water source by the nearby CHP plant.

Flood mitigation solutions included de-culverting the watercourse under the former mill, and decommissioning and backfilling one of the reservoirs and replacing it with a meandering channel.