FLOOD RISK MODELLING
MANCHESTER CITY CENTRE
Hydraulic Modelling for Multi-Million-Pound Development in the Heart of Manchester

The Problem
Construction planning for a new development in the heart of Manchester needed to be assessed to provide assurance that diverting river flow could be managed safely without increasing flood risk to others.

The Approach
Waterco’s primary task was to support construction planning by provide confidence that during construction, diverting river flow for temporary works would not lead to flooding in the city centre.

Hydrological Assessment and full 1D/2D Hydraulic Modelling was carried out to assess various aspects of flood risk including depth, velocity and hazard.

The Outcome
Several developers had explored the site but had not progressed because of the potential impact on the River Medlock and the nearby Bridgewater Canal. Waterco were able to provide confidence and reassurance that during construction, temporary works would not lead to flooding. Understanding how our urban waterways interact and impact on exciting redevelopment projects provided an interesting venture for our Manchester based team.