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Cavan Town Flood Relief Scheme



Newsletter 09
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Surveys

Site Investigations

In the last reporting period, the project team finalised the site investigation contract scope of works which was then advertised for tender. The tender period concluded in January 2025. Once the returned tenders have been reviewed by the project team, a contractor will be appointed. An archaeological license from National Monuments Service will be obtained prior to works commencing on site. The licensing process typically takes 6 weeks. On site works will commence once licencing is in place.

The contract scope includes trial pits, slit trenches, cable percussion boreholes and rotary coring within the flood relief scheme, scheme area.

Once appointed, the contractor will contact affected landowners 7-days in advance of the works to discuss the works and arrange access.

The image below shows a typical cable percussion borehole set up.



Hydrology & Hydraulic Modelling

Hydrology

The flood relief scheme draft Hydrology Report was prepared in August 2024. The report is currently being finalised by the project team to address client comments.

The Hydrology Report provides data in relation to design river flows and water levels for current and future scenarios.

Hydraulic Modelling

The Cavan Flood Relief Scheme hydraulic model will be used to simulate flood events in the catchment. The simulations will be interpreted by the flood relief scheme project team to identify areas where flood defence measures are required. The initial hydraulic model build for the Cavan River and associated tributaries was completed at the end of 2024.

The work completed on the model build has been complex and resulted in delays which have impacted the scheme's overall programme for delivery. The scheme consists generally of 13 catchments, all contributing to the Cavan River system. Issues that arose on the model included resolving the complex integration of the multiple watercourses and their tributaries and stabilizing the model, so it appropriately represents flooding in Cavan Town.

The project team are currently preparing documentation to present at the scheme's hydraulics workshop. This workshop will showcase the methodology used by the consultant to complete the baseline hydraulic model. It will demonstrate how the outputs from previous works undertaken, including in Hydrology and topographical, utility and drainage surveying, inform this model. It will also include information on flood outlines, flood flows as well as the process used for calibrating and validating the model.

Environmental Work

Invasive Alien Species Treatment

Two years of Invasive Alien Species (IAS) treatment works have now been completed in preparation for the flood relief scheme. So far, the results of the IAS treatment programme indicate that the presence of IAS have reduced significantly due to the treatment works. The next IAS treatment will be conducted in May/June 2025.

Nature-based Solutions (NbS)

Nature-based Solutions (NbS) formerly known as Natural Water Retention Measures are defined as “measures that aim to safeguard and enhance the water storage potential of landscape, soil and aquifers by restoring ecosystems, natural features and characteristics of water courses and using natural processes.”

A NbS report is being produced by the project team as a feasibility assessment of the implementing specific types of Nature-based Solutions (NbS) to reduce flood risk within the Cavan Town scheme area.

Examples of specific NbS include:

- Catchment/ Floodplain/ Riparian Woodlands
- Non-floodplain wetlands
- Overland sediment traps
- Riverbank restoration
- Natural instream structures

NbS measure which are identified as having the potential to reduce flood risk will proceed to further analysis stage and will be considered for integration into the final flood relief scheme design.

Additional Environmental Surveys

The following surveys will be undertaken once the scheme optioneering has developed further.

- Air Quality and Climate
- Noise and Vibration
- Landscape and Visual

Stakeholder Engagement

A Collaborative Workshop will be held on the 28th of March 2025. A number of public stakeholder bodies will be invited to collaborate and exchange ideas on how to best achieve the flood relief scheme’s objectives.



What's Next?

Most of the current project activities will continue over the next few months, including, but not limited to the following:

- ➔ Progress Hydraulic Modelling.
- ➔ Finalise the Hydrology Report
- ➔ Hold the Collaborative Workshop.
- ➔ Nature-based Solutions Report
- ➔ Ground Investigation Appointment.

CAVAN TOWN FLOOD RELIEF SCHEME



Contact Us

If you would like to contact our Project Team about any matter relating to the Cavan Town Flood Relief Scheme you can do so through the following:

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If you would like any further information on the Scheme, please visit our website:

<https://www.floodinfo.ie/frs/en/cavan-town/home/>