



Oifig na n-Obreacha Poiblí  
Office of Public Works



Rialtas na hÉireann  
Government of Ireland

Tionscadal Éireann  
Project Ireland  
2040



# Cavan Town Flood Relief Scheme



## Newsletter 06 February 2024

### IN THIS ISSUE

This Newsletter covers the preceding three months from February 2024. Previous Newsletters are accessible on the Project Website.

#### Surveys, Hydrology & Hydraulic Modelling

Outlines Progress.

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#### Environmental Work and Stakeholder Engagement

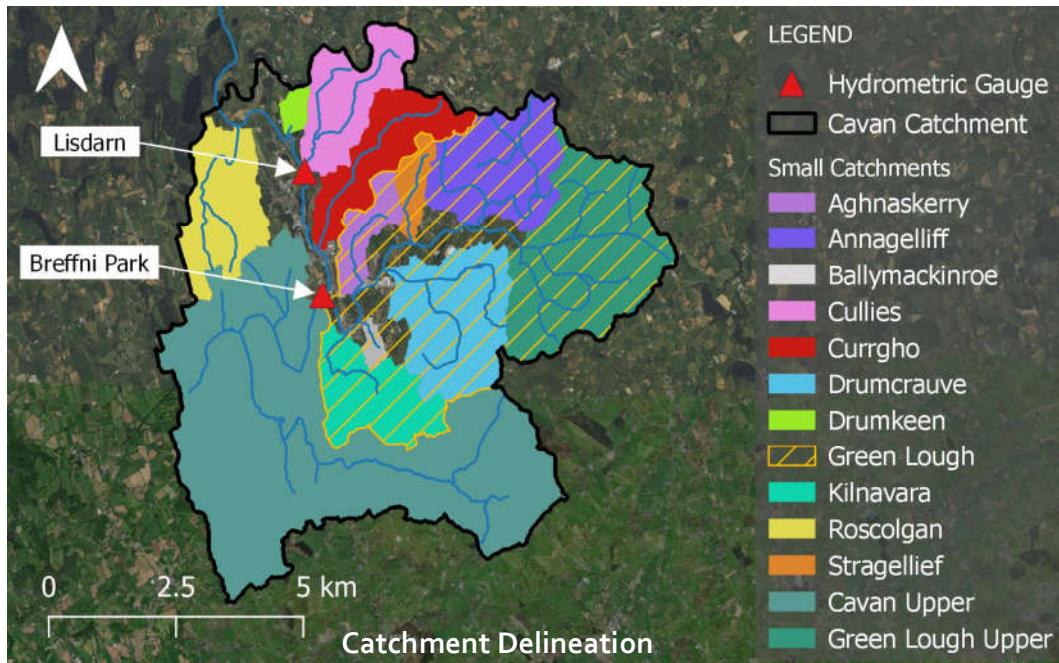
Outlines the environmental surveys in progress and upcoming events.

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#### What's Next?

Outlines future works that will be carried out.

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## Surveys

Technical surveys such as Topographical, Channel, Structure & Flood Defence, Utility & GPR, Culvert Condition and CCTV surveys have been completed.

The project team has compiled a Scope of Work and procurement documentation for the ground investigations contract. This contract will involve intrusive investigations (i.e. boreholes and trial pits etc) which will be carried out to establish the soil and rock profile and parameters within the Cavan Town Flood Relief Scheme area. The results of the ground investigation works will guide the options selection for the Scheme and the preliminary design of proposed flood defence components.

Detailed drawings have been compiled on each exploratory hole location. As part of the ground investigations contract Ayesa have proposed for an Appropriate Assessment Screening and Archaeological Impact Assessment to be conducted to mitigate potential negative effects from the site works on their surrounding environments.

The contract is intended to be published for tender in Q1 2024.

## Hydrology

The draft hydrology report is being completed currently for the Scheme and will be submitted to the Client for review later this month. The report details the analysis completed to define how the flows in the rivers respond during flooding events. The hydrology focuses on the Cavan River Catchment and its subcatchments. Understanding how these catchments act, is a key step in defining flood risk and developing flood protection measures for the Scheme.

## Hydraulic Modelling

Hydraulic modelling is a desktop exercise running a computer software package to model the watercourses, drainage infrastructure and overland surface flows. The calculated hydrology is an input to represent flood mechanisms and evaluate the technical viability of potential flood mitigation measures. Past flood events are used in calibrating the model to ensure it is representative of the actual flooding happening in the Scheme Area.

Arcadis has been commissioned to undertake the hydraulic modelling for Ayesa. Arcadis

commenced work on the hydraulic modelling elements of the scheme using inputs from completed survey data. Modelling will continue into Q4 of 2024.

## Environmental Work

The Otter survey has been completed during the preceding period and the associated report was submitted to the Client. Some Otter and Badger activity were recorded in the Study Area. Considering the timescale of the project, it is recommended that a resurvey be completed for the next stage of the scheme once the location and type of defences have been refined.

The assessment showed areas of opportunity for runoff reduction and floodplain storage, but little opportunity for sediment management.



## Stakeholder Engagement

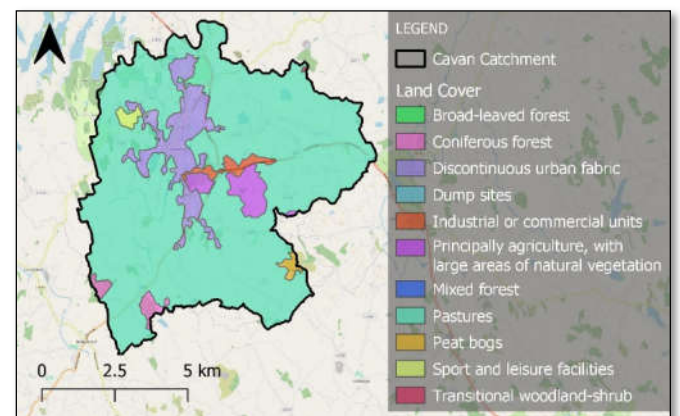
A Collaborative Workshop was postponed to quarter 1 of 2024. A small number of public stakeholder bodies will be engaged to collaborate, do brainstorming, and exchange ideas on how to achieve the project objective while also incorporating other outcomes at the same time into this project.

A number of Stakeholders were identified and engaged during late 2023 with regards to Nature-based Solutions for Catchment Management for the Cavan Town Flood Relief Scheme.



## Natural Water Retention Measures (NWRM)

A report on the NWRM was completed and submitted to the Client. This report focusses on the three main categories, namely: Run-off Reduction, Floodplain Storage and Sediment Management.



## What's Next?

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

- ➔ Specialist Environmental Surveys continue.
- ➔ Progress Hydraulic Modelling Analysis.
- ➔ Collaborative Workshop.
- ➔ Ground Investigation Tender and 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:

### Email

[CavanTownFRS@Ayesa.com](mailto:CavanTownFRS@Ayesa.com)

### Post

Project Manager: Cavan Town FRS  
Ayesa  
Building 2100  
Cork Airport Business Park  
Kinsale Road  
Cork, T12 KV8R

### Phone

+353 (0) 21 240 7988

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

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