

CAVAN TOWN FLOOD RELIEF SCHEME



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Cavan Town Flood Relief Scheme



Newsletter 03 April 2023

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Project Purpose

The purpose of the Cavan Town Flood Relief Scheme is to identify, map and assess existing and potential flood hazards and to provide a scheme that is technically, socially, environmentally, and economically acceptable to alleviate the risk of flooding in Cavan Town.

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Project Overview

The project team is busy with various technical, social, and environmental aspects of the Flood Relief Scheme, conducting site assessments and surveys in Cavan Town and its surrounding area.

The project will be delivered over five stages. ByrneLooby are currently working on Stage 1 of the Flood Relief Scheme, this is the Scheme Development and Preliminary Design stage. This stage commenced in June 2022 and is expected to run into 2025. Further information on the Projects Timeline and Stages can be found on the Scheme website, link provided below:

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

The purpose of the Newsletter is to keep the public and stakeholders updated with the projects progress. Our Newsletters are issued every quarter of the year with each edition covering the preceding period.

Previous Newsletters are accessible on the Project Website. Newsletter 01 covers our progress from June to October and Newsletter 02 includes November 2022 to January 2023.

ByrneLooby have undertaken environmental walkovers, surveys, and a public consultation event and continue to gather all relevant information to generate an efficient scheme.

Stakeholder Engagement

A Collaborative Workshop is planned for the upcoming period with invited stakeholders to encourage collaboration, do brainstorming, and exchange ideas on how to achieve the project objective while also incorporating other outcomes at the same time into this project.



Con Smith Memorial Park – Site Visit February 2023

Surveys

ByrneLooby developed a scope for Technical Surveys within the scheme area, these scopes were advertised for public tender in November 2022. Tenders were received in December 2022. Cavan County Council awarded the contract to Murphy Geospatial on the 2nd of February 2023.

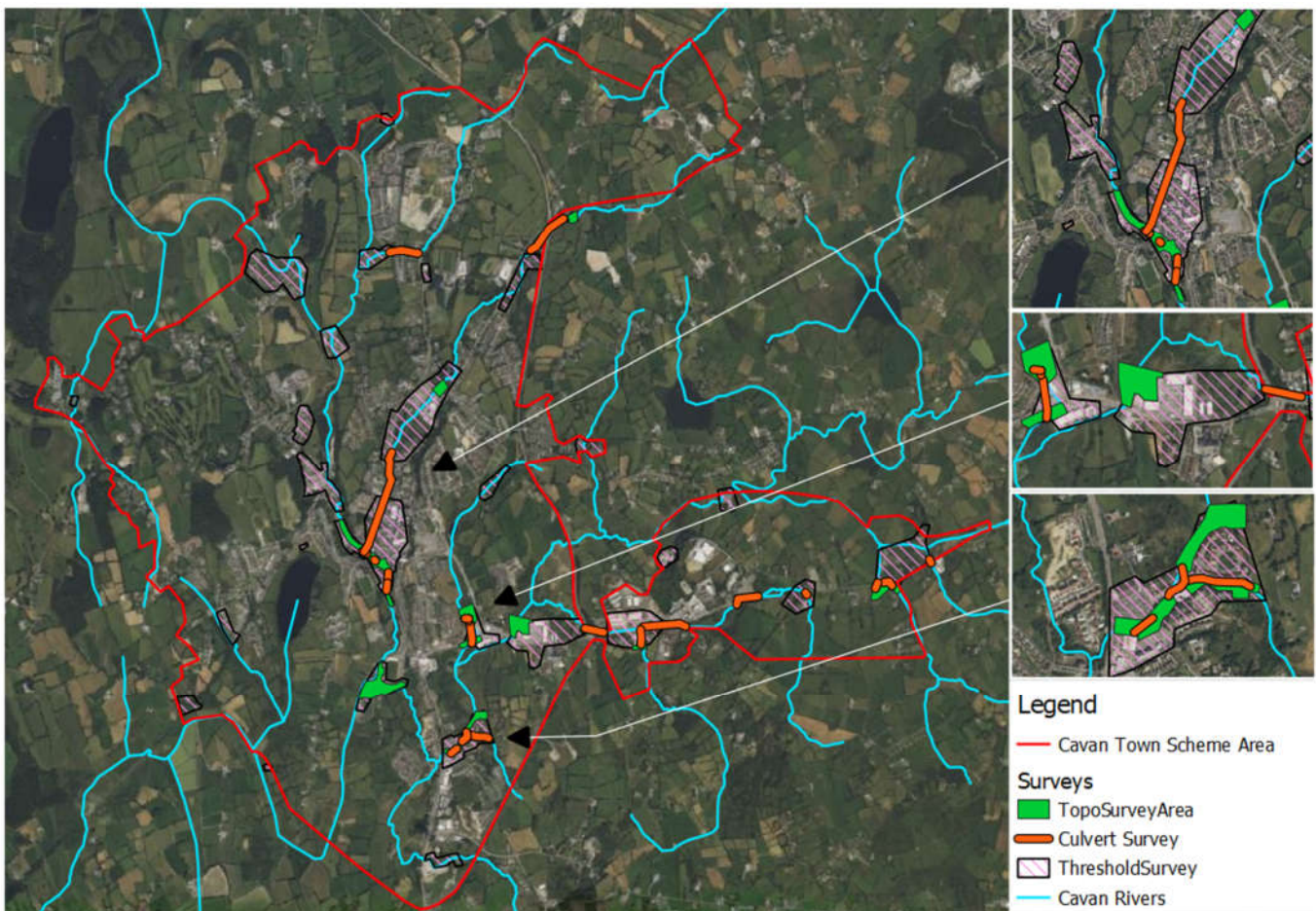
Murphy Geospatial have taken on the role to conduct Topographical and Channel Surveys including CCTV, Drainage and Utility Surveys for the Cavan Town Flood Relief Scheme. Murphys started their surveying on the 8th of March 2023 and is expected to continue until May 2023.

Assessing Cavan Town's Culverts will determine their adequacy and functionality of the channels during flood conditions. Murphys have completed the Topographical and Building Threshold Surveys which determine changes in elevation, terrains and boundaries of properties and obstructions.

CCTV/Culvert, Drainage and Utilities Surveys are ongoing.

Murphys have also completed a Flood Wrack Mark Survey, which provides a guide to maximum flood levels taken from flood photos and from lines of deposited debris, such as vegetation.

ByrneLooby will review the data from Murphys once submitted. The results from these surveys will feed into the hydraulic modelling which determines and defines areas at risk of flooding and develop flood defence measures for the scheme.



Environmental Work

The project team has identified a 3-year treatment programme to address Invasive Alien Species within the scheme area. Envirico were appointed on the 9th of March to carry out this treatment plan. Survey started in April 2023 on site.

Tobar Archaeology have conducted and submitted a baseline constraints desktop report for the purposes of Archaeology, Architectural and Cultural, Heritage in Cavan FRS Scheme Area.

Landscape and Visual specialists have begun work on establishing areas and features of interest in the scheme area that will feed into the constraints assessment.

ByrneLooby have compiled a Habitat and Species report for the scheme area, outlining the findings from survey walkovers and existing desktop data. From this report the environmental team has identified areas that require specialist surveys, which assist in identifying potential environmental impacts of the scheme development.

Intended Specialist Surveys to be conducted are:

- Tree Surveys
- Aquatic Ecology
- Noise and Vibrations
- Air Quality and Climate
- Otter Survey
- Bat & Bird Survey

The congregated impacts will be included in the Appropriate Assessment and an Environmental Impact Assessment. These processes are a legal requirement necessary to comply with European Environmental Directives.

Hydrology

The hydrology team are busy assessing rainfall and river flows to establish the hydrological regime of the rivers and streams in the scheme area. The team are completing all necessary assessments to allow estimations of the design standard flood flows for the scheme.

A site visit was conducted by a member of the hydrology team and Cavan County Council. Areas susceptible to flooding were assessed, with particular interest to locations affected by the October 2022 flood, to understand flood mechanisms in these areas. Further areas were assessed to comprehend the river network and local infrastructure and identify potential areas for additional gauge locations.

A Hydrology Report is expected to be completed in Q3 of 2023. The report will detail and expand:

- Overview of flood history in the scheme area
- Review the meteorological and hydrometric data identified.
- Review of Physical Catchment Descriptors
- Flooding from Pluvial and Groundwater Sources.
- Design Flows estimation and analysis and hydrograph for the scheme.

What's Next?

Over the next few months, the Project Team will be working on:

- Completion and review of Survey Data.
- Detailed analysis for hydrology.
- Carrying out specialist environmental surveys
- Assessment and modelling for the progression of Hydrology Report.
- Scope Preliminary Site Investigations.
- Collaborative Workshop.

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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/>