

BUNCRANA
FLOOD RELIEF SCHEME



**Comhairle Contae
Dhún na nGall**
Donegal County Council



Tionscadal Éireann
Project Ireland
2040

OPW Oifig na
nOibreacha Poiblí
Office of Public Works

Buncrana Flood Relief Scheme



Newsletter March 2022

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Latest Overview

This is the third newsletter for the Buncrana Flood Relief Scheme. The main activities carried out for the scheme since the previous newsletter in December 2021 include – survey works, environmental activities, hydraulic modelling, and hydrological assessment.

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Survey Works & Site Investigations

The condition survey of the existing culverts in the town has been completed. The survey data is currently being reviewed before input to the hydraulic model.

LiDAR survey is used to capture large areas of topography from the sky and is key for developing an accurate hydraulic model. The LiDAR survey was completed in March 2022. The survey data is currently being processed by the Contractor and is expected to be issued in April.

The assessment of the potential of Natural Water Retention Measures upstream of Buncrana has commenced.



Culvert Condition Survey works, Buncrana



Source – Inishowen Rivers Trust Youtube Channel

Leaky Dams in Inishowen (Example of Natural Water Flood Measures in the upper catchment) -

Environmental Activities

Environmental Constraints

The updated environmental constraints report for Buncrana was issued to Donegal County Council in March 2022 following feedback from the steering group. The purpose of this report is to identify the key environmental issues associated with the development of a scheme within Buncrana. The final report will be available on the project website soon.

Invasive Species Management & Treatment

Based on our invasive species surveys, an Invasive Species Management Plan (ISMP) was finalised in February 2022 following feedback from Donegal County Council. We are now in the process of procuring a contractor to undertake treatment in accordance with our ISMP. The treatment of invasive species has been prioritised to minimise risk to the progression of the scheme.

Specialist Surveys

The project team, in coordination with Donegal County Council have progressed with the procurement of third-party environmental specialists. The surveys relate the following specialist areas:

- Air quality
- Aquatic Ecology
- Landscape and Visual
- Wintering Birds
- Noise & Vibration
- Archaeology and Cultural Heritage



Invasive Species such as Japanese Knotweed and Himalayan Balsam are present in various locations in Buncrana including in and around old Cockhill Bridge



Tullyarvan Gauge station located on the River Crana

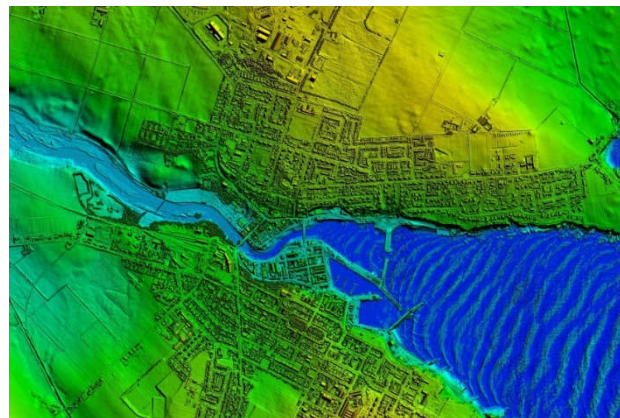
Hydrological Analysis & Hydraulic Modelling

The draft hydrology report for Buncrana will be issued to Donegal County Council for review in April 2022. This includes a detailed hydraulic review of the gauging station at Tullyarvan and the design flows for modelling and scheme development.

The development of the hydraulic model of watercourses affecting Buncrana is ongoing. The topographical data has been input into the model with the 1d model build nearing completion. The culvert condition survey data is currently undergoing review before input to the model.

The project team are procuring the temporary installation of Tidal Gauges in Lough Swilly to provide water level data to support the Coastal Flood Risk Assessment for Buncrana. The tidal gauge data will be gathered and assessed for a minimum of 5 months.

LiDAR survey data has now been completed. This data will allow the project team to finalise the 2d hydraulic model build



What's Next?

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

- ➔ Completion of the draft hydrology report
- ➔ Specialist environmental survey contract award.
- ➔ Implementation of our Invasive Species Management Plan for 2022
- ➔ Continuation of Hydraulic Modelling including 2d LiDAR survey data.
- ➔ Tidal water level data collection for coastal flood risk assessment



Contact Us

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

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

www.floodinfo.ie/frs/en/buncrana/home/