

Midleton Flood Committee

25th April 2024

MIDLETON FLOOD RELIEF SCHEME



OPW

Oifig na
nOibreacha Poiblí
Office of Public Works



Comhairle Contae Chorcaí
Cork County Council

ARUP



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Purpose of the Committee



Enhance communications between the Flood Relief Scheme Steering group and the community of Midleton



Assist in keeping residents and business owners informed of progress on interim measures in the short to medium term



Allow for open dialogue with and input from the general public

Interim Works – progress to date (1)



- Roll out of interim measures is underway in a phased manner, in compliance with the regulatory frameworks; the following has been completed and/or is ongoing, since our last meeting:
 - Interim and Advance Works Report has been completed by Arup, and is under review by the Steering Group prior to publication
 - Installation of additional gauges at Lidl Bridge and Peoples Park – one of these was subsequently removed, and a replacement is on order
 - Remedial works to Ballyedmond Gauge to mitigate risk of further outages have been identified and contractor appointed
 - Derogation licence application for removal of gravels downstream of Moore's Bridge is in progress; work is ongoing in parallel on the procurement of works contractor for this work at the earliest opportunity possible
 - Request for quotations for vegetation clearance (town centre) has been issued, with a view to clearance in June
 - Engagement with riparian landowners re river channel maintenance is ongoing

Interim Works – progress to date (2)

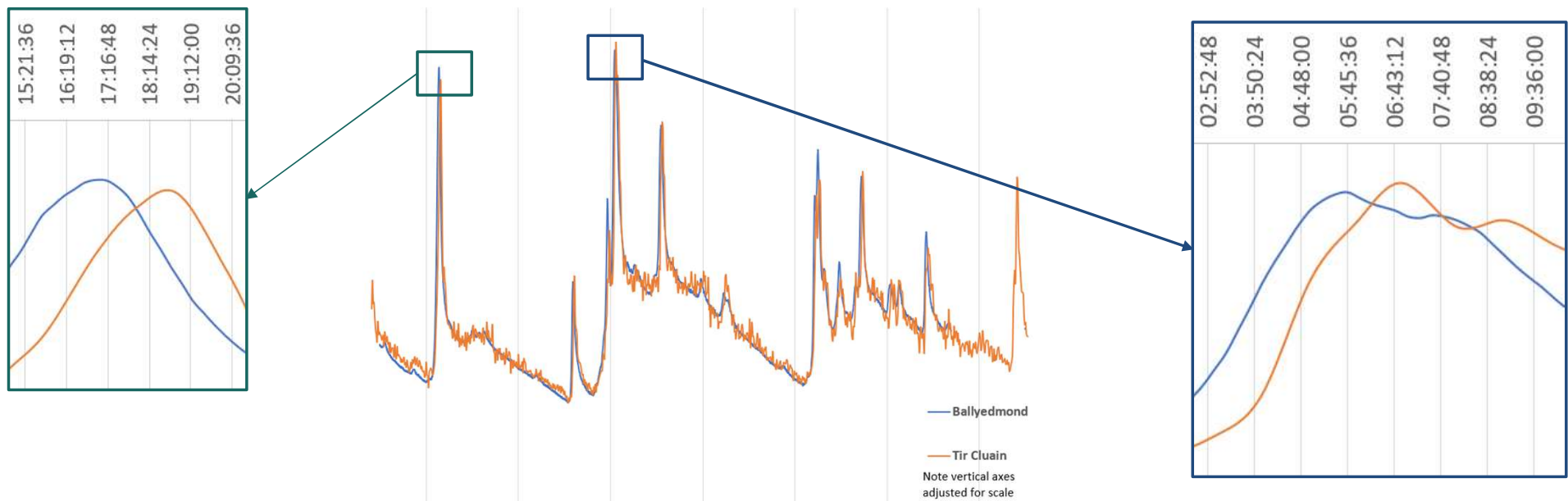


- The following interim works are planned for the coming summer (pending various statutory approvals):
 - In channel vegetation channel clearance and removal of deposited material from the channel near the Lidl Bridge
 - Replacement of non-return valves at Dwyer's Road and Ballinacurra
 - Assessment of viability of debris screens
 - Continued engagement with Met Éireann
 - Continue with efforts to reach landowner agreement re removal of bridges



River level gauges

- A review of the data from Ballyedmond (publicly available) and Tir Cluain (CCC) gauge indicates that the data at Tir Cluain aligns well with what is being recorded at Ballyedmond, with a short time lag between peak at Ballyedmond to peak at Tir Cluain.



Advance Works



- In addition to the preceding interim works, an initial assessment of Advance Works has been carried out
 - Advance works involve the delivery of certain elements of the main scheme in specific areas in advance of delivery of the whole scheme – e.g. construction of embankments at certain locations
 - Assessment of advance works is required to fully understand the impact of such works
 - Construction of isolated sections of defences to protect one area can potentially increase risk at other locations
 - Statutory Planning Consent may be required, as may environmental assessment
 - Landowner constraints may also influence what works can be delivered
 - Assessment of advance works is ongoing

Individual Property Protection

- Individual Property Protection (IPP) is being considered as part of the overall suite of measures for Midleton, in tandem with Interim and Advance Works.
 - Cork County Council and OPW are in the process of agreeing the scope and scale of an IPP scheme for Midleton, in conjunction with the ongoing assessments of possible advance works
 - It is intended to roll out IPP in a targeted and phased basis across Midleton



Timeline – Interim and Advance Works

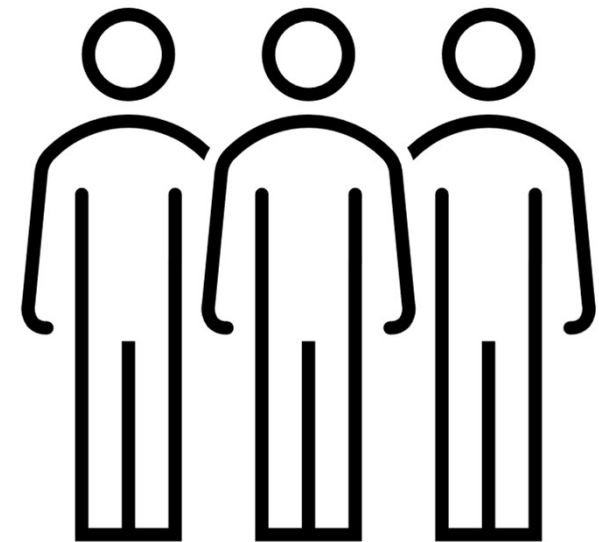


Ongoing/Imminent	Planned for Summer 2024	Medium Term
Publication of interim/advance works report	Vegetation clearance (overhanging limbs) near Woodlands	Continued engagement with Met Éireann
Installation of replacement gauge in People's Park	In channel clearance near Lidl Bridge	Advance construction of elements of the main scheme - subject to assessment
Remedial works to Ballyedmond Gauge	Replacement of non-return valves at Dwyer's Road and Ballinacurra	Removal of bridges – subject to landowner agreement
Submission of derogation application for removal of gravels at Moore's Bridge area	Individual Property Protection - subject to funding approval	

Interim Works – resourcing



- Cork County Council received confirmation of funding from the Office of Public Works for one additional engineer in 2023
- The additional engineer who has been approved is in place and 100% allocated to the delivery of interim measures for Midleton
- OPW is now funding a Senior Executive Engineer, and an Executive Engineer (CCC) and the consultants for the Midleton FRS.
- OPW and CCC are finalising additional staffing to CCC to support the delivery of the Midleton scheme, and all FRS across the County.



Update on Middleton Flood Relief Scheme Delivery (1)



- Work on the planning design for the ‘main’ scheme is ongoing – Arup have a significant team working on the project at present
- In the last period:
 - Phase 6 Ground Investigation contract is ongoing; some delays have occurred on site, due to landowner access permission and ground conditions. CCC, Arup and PGL are working to resolve this and minimise impact on programme
 - Topographic survey – final field work snagging is ongoing; final deliverable is due next week
 - Drainage survey has been received and is under review
 - Environmental surveys – overwintering bird survey has been carried out (Nov 2023 – March 2024), report is to be finalised; bat survey report has been issued to Arup in February 2024
 - Point Cloud survey – Surveyor has been appointed; CCC is advancing some vegetation clearance/maintenance to facilitate the survey
 - Culvert survey – Surveyor appointed, and kick off meeting held

Update on Middleton Flood Relief Scheme Delivery (2)



- **Arup deliverables in the last period:**
 - **Interim & Advance Works Report (under review by Steering Group)**
 - **Deposition downstream of Moore's Bridge technical note**
 - **Scheme Update Post Storm Babet Report (under review by Steering Group)**
- **The review of reports is not delaying progress on the planning design – the impacts of the Storm Babet assessments on the preferred option for the scheme are understood at this point in time, and the planning design is advancing on this basis.**
 - **First technical workshop has been held with CCC and OPW**
 - **Workshops with CCC stakeholders regarding heritage and public realm have been held**
 - **Ongoing engagement with landowners and other stakeholders**
 - **Drainage assessment is ongoing**
 - **Updates to hydraulic model following Storm Babet, are ongoing and nearing completion**

Community Resilience

- Online guidance and information is provided by OPW (www.flooding.ie) and by the Government ([Be Winter Ready \(www.gov.ie\)](http://www.gov.ie) annual campaign)
- These resources provide advice for individual property owners on actions to take:
 - **Before a flood:** including advice on resilient building construction, creating a family flood plan and advice for business owners,
 - **During a flood:** including safety advice, actions to take both outside and inside your property, advice regarding animals
 - **After a flood:** including advice on cleaning, drying and repairs, and records to keep after a flood
- Key message – Be Prepared & Stay Safe

My Floodplan.

Name: _____ Date: _____
Address: _____

What do I do NOW?

- ☐ Identify who can help you and who you can help.
- ☐ Check if ditches, drains, pipes, etc. are maintained.
- ☐ If you have an insurance policy, check if it covers flood damage.
- ☐ Identify what you would need to take with you if you had to leave home.
- ☐ Complete a flood plan, keep it safe, take a photo and save in your phone.
- ☐ Assess how flood water could enter your property and how it could be stopped by permanent or temporary measures.
- ☐ Put important documents out of flood risk in sealed containers.
- ☐ Consider if others or pets require special assistance.
- ☐ Identify a suitable evacuation route to safety and a temporary refuge that avoids potential flooding elsewhere.

IDENTIFY KEY CONTACTS:

Contact	Contact Number	Out of Hours Number
Local Authority		
Local Garda station		
ESB Networks		
Irish Water		
Gas Networks		
Doctor		
Insurance Co. and Policy number.		

IDENTIFY SERVICE CUT-OFF LOCATIONS:

Service	Location Description
Water	
Electricity	
Gas	

IDENTIFY WHO CAN HELP / NEEDS HELP:

Relationship	Name / Contact Details	How can they help / you help?
Relative		
Friend		
Neighbour		

Suggested items to include in a Flood Kit

- ☐ Torch and spare batteries
- ☐ Warm waterproof clothes
- ☐ Food & bottled water
- ☐ Toys for children
- ☐ Radio
- ☐ Wellingtons
- ☐ Medication & first aid
- ☐ Towel / blankets
- ☐ Rubber gloves
- ☐ Antibacterial wipes
- ☐ Items for pets

Other items as required

☐ _____ ☐ _____

What do I do when a flood or heavy rain is FORECAST?

- ☐ Install temporary defences such as sandbags, flood boards, polythene sheets
- ☐ Make a list now of what should be moved to safety
- ☐ Place important documents in heavy duty polythene bags and move to safety
- ☐ Move car away from flood risk area if safe to do so
- ☐ Weigh down or securely store large items in gardens
- ☐ Notify friends, family, employees and seek help if needed
- ☐ Plan your escape route in case you have to leave your home quickly
- ☐ Ensure there are adequate supplies of water and food
- ☐ Turn off electricity, water and gas supplies – ensure you can find them in the dark
- ☐ Move or raise furniture, electrical, personal and sentimental items away from the risk
- ☐ Roll up carpets and rugs, remove long curtains or hang over rails
- ☐ Clear external drains / ditches / gratings of silt & other debris
- ☐ Move chemicals to high shelves and ensure containers are secure to prevent pollution
- ☐ Locate and complete your flood kit
- ☐ Contact elderly or mobility impaired neighbours to ensure they are prepared

What do I do during a FLOOD?

If a flood threatens your area you can minimise damage and risk through careful preparation, but personal safety should always be your first concern. In a flood situation ensure you do the following:

- ☐ Stay safe, don't take unnecessary risks and be aware of structural damage.
- ☐ Avoid contact with floodwater where possible as it is likely to be contaminated and/or polluted.
- ☐ Always wear suitable clothing when working in or near floodwater.
- ☐ Don't try to drive or walk through flood water, 300mm deep fast flowing water can move cars off the road.
- ☐ Take care when walking through shallow water, as there may be other unseen hazards such as open manholes.
- ☐ Never try to swim through fast flowing water as you may get swept away or struck by objects in the water.

Presentation from TCD



Any other business?



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