

Area 4
Constraints



Two options were presented at Public Participation Day No. 2 for this area. A further 3 options were developed following consideration of the proposed Northern Relief Road extension project.

- Option 4A:**
Groundwater cut-off and direct defences east of the current IDL site

Option 4B:
Pumping and direct defences

Option 4C:
Groundwater cut-offs and direct defences combined with proposed Northern Relief Rd Extension (NRRE) road embankment with embankment at Greenway crossing
- Option 4D:**
Groundwater cut-offs and direct defences combined with proposed Northern Relief Rd Extension (NRRE) road embankment with flood barrier at Greenway crossing

Option 4E:
Groundwater cut-offs and direct defences east of the current IDL site and along Greenway to mitigate impact on NRRE

Following a multi criteria analysis taking into account environmental, social, technical, and economic objectives, and feedback from the public and various stakeholders, **Option 4E: Groundwater cut-offs and direct defences east of the current IDL site and along Greenway** has been selected as the Emerging Preferred Option. This option is considered the preferred option for the following reasons:

Technical outcomes

- ✓ Operationally robust option, minimises operation and maintenance requirements
- ✓ Adaptable to climate change. Assumptive approach is proposed, designing the scheme now to account for an assumed future flood risk scenario
- ✓ Minimal interaction with existing and proposed infrastructure

Environmental objectives

- ✓ No impact on Water Framework Directive conservation objectives
- ✓ No direct impact on Habitats and Birds Directive conservation objectives
- ✓ Some impact on landscape character and visual amenity along the Greenway, however defence heights are not significant and mitigation is possible through design
- ✓ Some impact on features of cultural heritage importance, however mitigation is possible and option provides increased level of protection from flooding for architectural and archaeological features of value downstream.

Social outcomes

- ✓ Facilitates other CCC infrastructure projects including the Midleton to Youghal Greenway and the proposed Northern Relief Road Extension

