

# Preliminary Technical Assessment of the Flood Alleviation Engineering Measures 1 of 2



Assessment of viability with regard to a range of criteria:

1. Technical viability

2. Cost

3. Environment

4. Archaeological

5. Social and cultural

6. Landscaping and visual

7. Adaptability to climate change

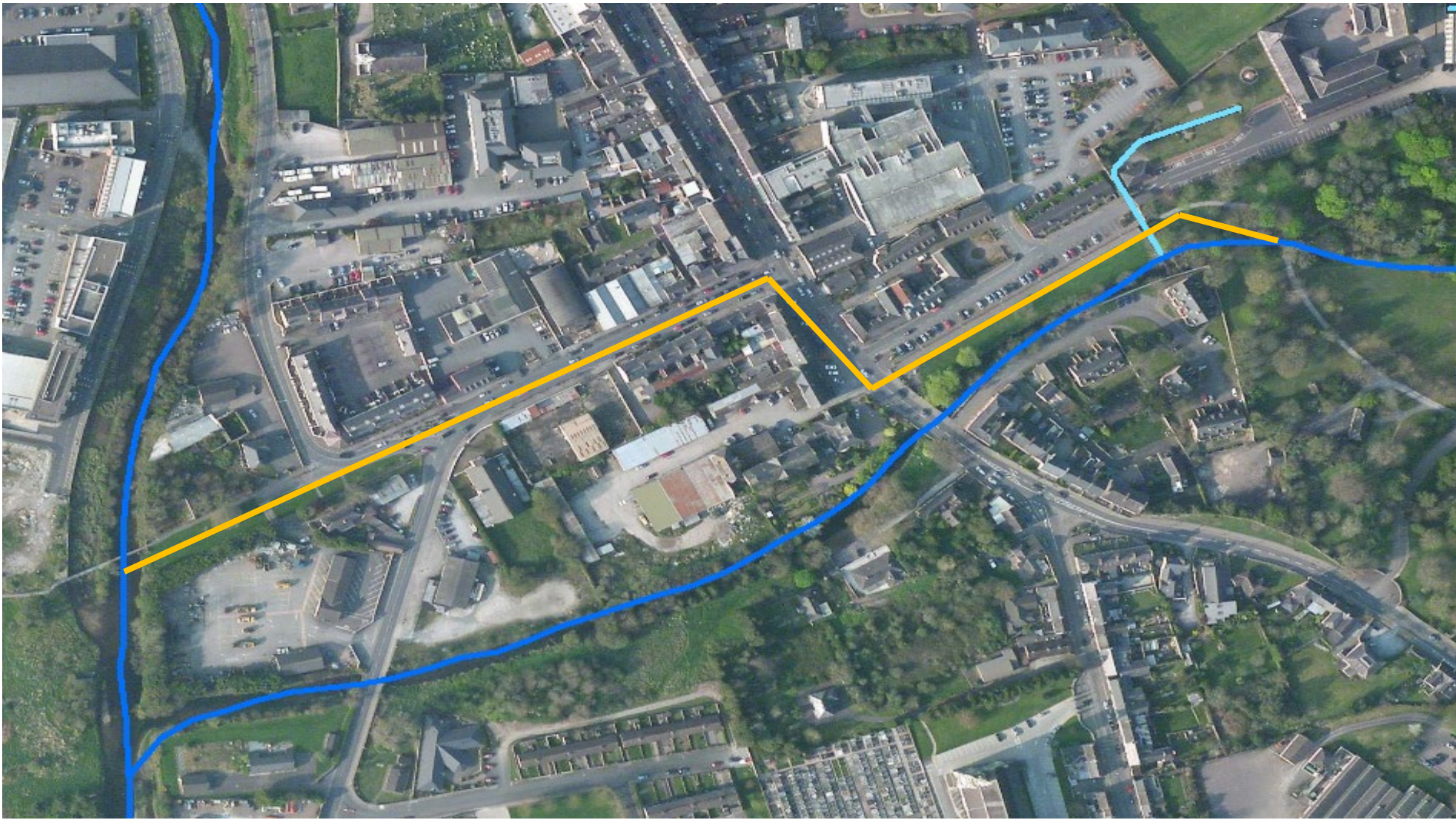
## Engineering measures considered to address flood risk in Midleton



Based on this assessment a number of the measures were found to be unviable and were not deemed suitable for inclusion in the detailed options development.

## Non Viable Measures (not included in Options Development)

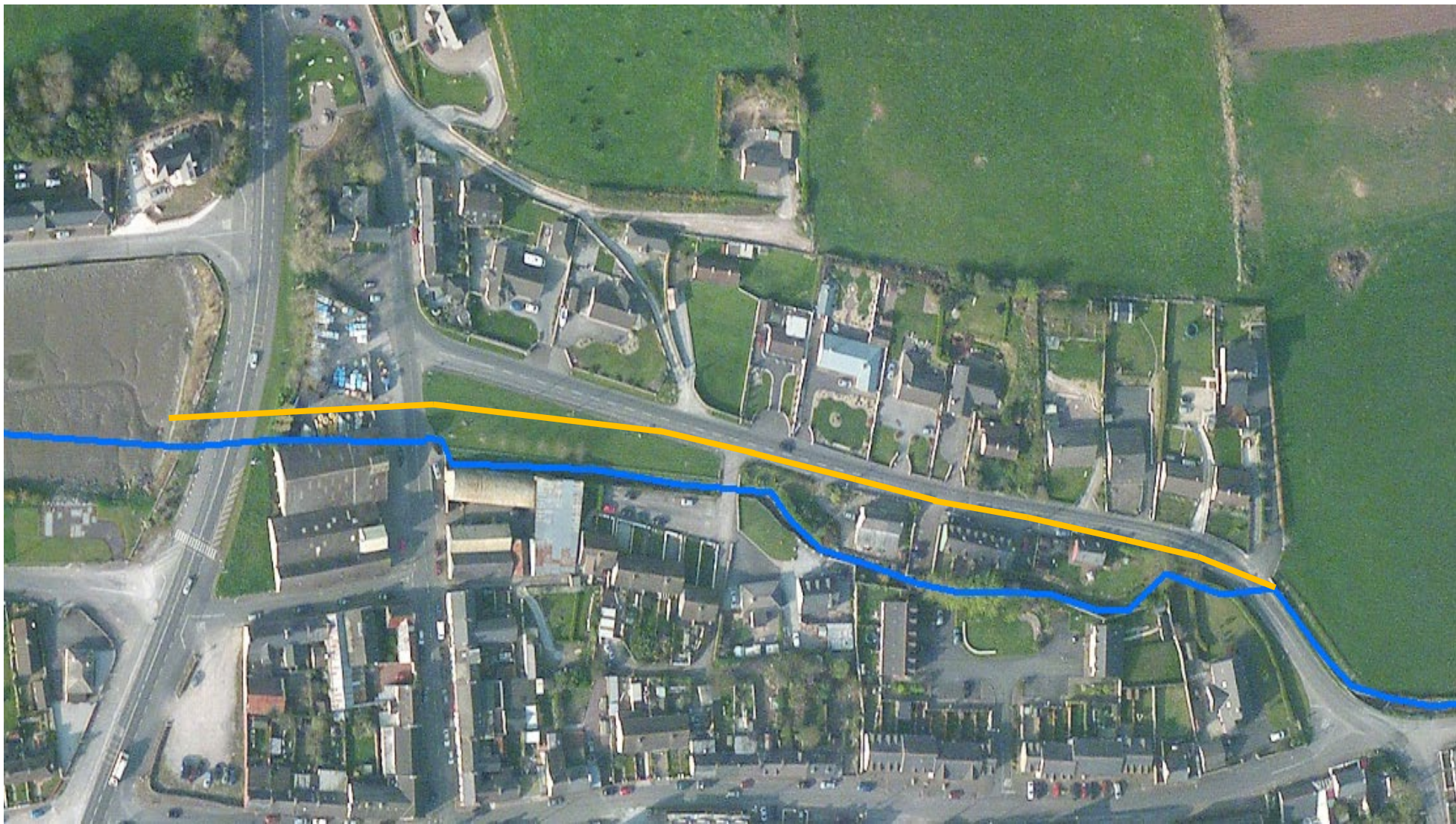
The measures found to be not viable as part of the Preliminary Technical Assessment are detailed below and on sheet 2 of 2.



### Flood diversion culvert for the Dungourney River

Not considered viable for following reasons:

- Significant clashes with existing services
- Negative environmental impacts during isolation of channel to facilitate flow diversion
- Significant disruption during construction
- Significant works required upstream of the diversion



### Flood diversion culvert for the Ballinacurra

Not considered viable for following reasons:

- Significant clashes with existing services
- Negative environmental impacts during isolation of channel to facilitate flow diversion
- Significant disruption during construction
- Significant works required upstream of the diversion



### Natural Flood Management (NFM)

NFM is the alteration, restoration or use of small scale localised landscape features to reduce flood risk by storing flow.

Not considered viable for the following reasons:

- Not effective for large flows and therefore can not offer the required standard of protection of the scheme
- In combination with other measures, it would require extensive change of use of large tracts of private land, thus requiring significant landowner agreements.
- Difficult to achieve logistically both for construction and maintenance in the long term.