

Residents Meeting Brandon Gardens and St. Nicholas Road, Prestwick

12 March 2019



Contents

- Introductions
- Background of the sewer flooding issues in Prestwick
- Cause of flooding in Brandon Gardens & St Nicholas Road
- What have we been doing about it?
- Current activities:
 - Prestwick Drainage Project
 - Localised option in Brandon Gardens & St Nicholas Road
- Next steps



Background of sewer flooding issues in Prestwick

- The sewer system in Prestwick is predominantly a **combined sewer system**
- Collects wastewater and rainfall in the same pipe – from properties and roads
- Flows from Prestwick are pumped through a number of pumping stations along the coast to Meadowhead WWTW
- Increasing pressures upon a combined system:

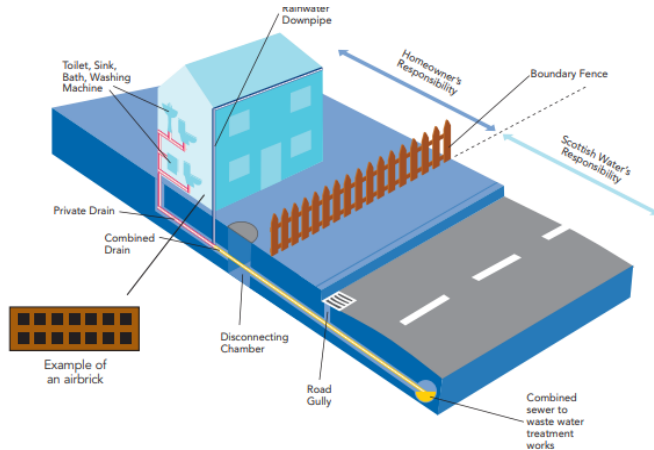


Background of sewer flooding issues in Prestwick

- Historic sewer flooding affecting several areas of the town
- Sewer flooding is generally rainfall driven
- Flooding is complex, with many organisations responsible for different parts of the drainage systems
 - **Scottish Water** is responsible for the sewerage network,
 - **South Ayrshire Council** is responsible for roads drainage, managing flood risk from surface water and watercourses, and
 - **SEPA** is responsible for providing flood advice and flood warnings.
- Resolution will require a longer term phased approach with a range of interventions
- Working with the other flood risk organisations and communities is key to managing flood risk.



Internal v External Sewer Flooding

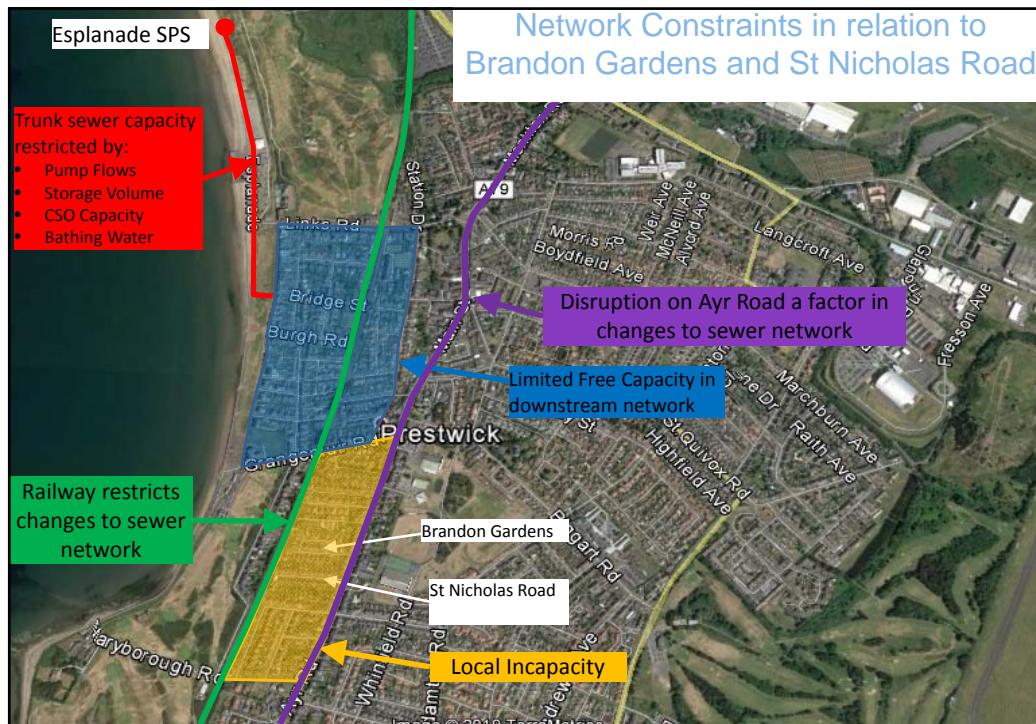


- **Internal** – where sewer flooding enters your property.
- **External** – where sewer flood water enters your garden or driveway, or ponds on the roadway
- We maintain a Register of internal and external flooding



Background: Known Sewer Flooding Locations





Cause of Flooding in Brandon Gardens & St Nicholas Road



What have we been doing about it?

- Project focused on Brandon Gardens and St Nicholas Road
- Properties at risk of internal sewer flooding
- Developed and assessed options that we can do to reduce the risk of flooding internal and external flooding
- Reviewed a range of solutions:
 - Short, medium and long term
 - Traditional and surface water management



Range of solutions reviewed:

- Large scale upsizing of main and local sewers
- Large storage tank and pump options
- Upsize sewer under railway line
- New Combined Sewer Overflow
- Improved road drainage/removal from sewer
- Removing surface water from sewer
- Property level interventions
- **Local sewer upsized – 300m of large pipes (2m x 1m)**
- **Local storage tank – 1,300m³**



Shortlisted options **discounted** at this stage:

Location:

- Constrains the size of the solution, in terms of land availability and restrictions working so close to a live railway line.
- So even the proposed local scale storage or upsizing options **would not fully resolve the flood risk**
- Also need to consider the disruption during construction. And working so close to the railway

Cost benefit assessment:

- Options are subject to a cost-benefit analysis and affordability assessment to ensure value for money
- Shortlisted options were deemed not economically viable.



What next?

Kicked off **Prestwick Strategic Drainage Project**

- Include all sewer flooding locations in Prestwick
- Identify all interventions to alleviate sewer flooding which address short and long term needs
- Strategic delivery plan for phased reduction of flooding will be directed by Stakeholder Group.

Continue to develop **localised option to reduce impact and frequency** of flooding in St Nicholas Road and Brandon Gardens



Localised option for St Nicolas Road & Brandon Gardens

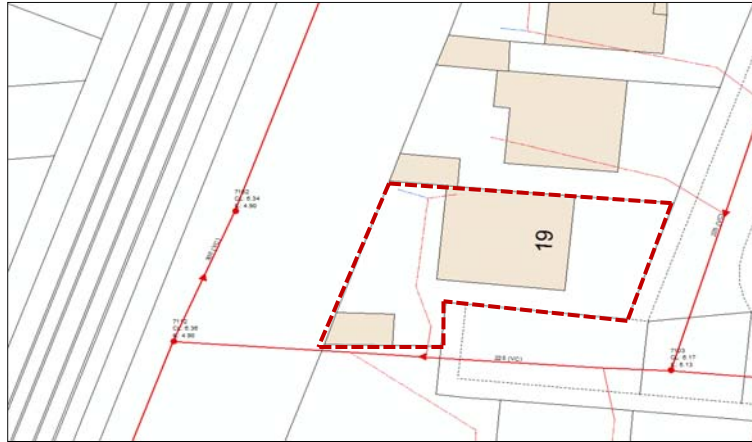
- Offered to purchase of 1 property in Brandon Gardens:
 - Help the individual customers that have experienced internal sewer flooding
 - Use the land to provide us with options to reduce the risk of external sewer flooding for others
 - Allows Scottish Water to remove this property from our Internal Sewer Flooding Register



Localised option for St Nicolas Road & Brandon Gardens

- Once sale is complete we have a number of options:
 1. Demolish property and re-profile land to create a flood storage area
 - Re-profile the roadway to direct flood water away from other properties and road
 - Reviewing additional potential measures to continue to reduce both impact and frequency of flooding in Brandon Gardens & St Nicholas Road
 2. Demolish property, grass over and maintain
 3. Hold on to the property and maintain for future options

Available land No 19 Brandon Gardens



Existing View of No 19 Brandon Gardens



Initial Mock-up of Option 1: Demolish Property and re-profiling the available land



Next steps

On conclusion of the sale:

- We will finalise designs for the options and discuss these in more detail with residents to get input.
- Then go through planning process to get permission to demolish the house and re-profile ground. Timeframe dependent on planning process & representations made by residents.
- Continue with **Prestwick Strategic Drainage Study** to identify further actions to continue to reduce flood risk in St Nicholas Road & Brandon Gardens, and across Prestwick

Summary

- Recognise historic and complex issues relating to sewer flooding in Prestwick
- Committed to progressing **Prestwick Strategic Drainage Study** to identify strategic solutions
- In interim committed to doing what we can to reduce frequency/impact of localised flooding in Brandon Gardens & St Nicholas Road
- Plans progressing with respect to Brandon Gardens
- Will maintain dialogue with the community as we progress



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