

York Flood Alleviation Scheme

March 2019

Update for March's Executive Decision Session

This is an update of the progression made over the last three months on the flood alleviation work in York. In this update we have provided:

- Summary of city wide flood alleviation activities
- Update on each flood cell
- Engagement plan for the next few months
- Programme information table
- A map of the York FAS Flood cell outlines

Summary of city wide flood alleviation activities

Process and Planning

The Outline Business Case was approved by the Large Project Review Group at the beginning of January, a Full Business Case will now be required for each cell as we progress with the scheme.

Planning permissions have been submitted for both B10 – Clifton and Rawcliffe and B4 – Memorial Gardens and North Street. These are currently live on the CYC planning portal with the expectation to go to Planning Committee on the 18th April regarding flood cell B10.

Engagement activity

We continue to engage across York.

- The Hub provides residents with a central location where they can come to ask questions about our work, view plans, and provide feedback. The opening times are 10:00 to 16:00 on Monday, Wednesday and Thursday each week.
- Our quarterly newsletter, next due March 2019.
- Citizen Space – an online portal that allows residents to view all engagement material and provide feedback. (<https://consult.environment-agency.gov.uk/yorkshire/yorkfas/>)

Our area (flood cell) specific engagement continues and is outlined in the next section. Our engagement plan for the next few months is also included as part of this document. We are expecting to see a large increase in community engagement over the next few months as developments take place in each cell. We don't however have known dates and places at the time of writing this report.

Update on progress of each flood cell

This section provides an update on each of the areas (flood cells) being taken forward as part of York Flood Alleviation Scheme.

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Flood Cell	Detail	Current/Next Activity
B4 - Scarborough to Ouse Bridge (Right Bank)	<p>Planning application was submitted on the 7th of January with a Determination Deadline of 5th March.</p> <ul style="list-style-type: none"> We are looking to increase the height of the Lendal Bridge flood gate (by 300mm) and existing flood walls and flood gates at North Street gardens (by 380mm). This work includes widening of the flood gate adjacent to the Hub. A new flood wall will be constructed around Memorial Gardens with demountable defences and a small embankment to tie it into the existing line of defence. The road between Westgate Apartments and the Post Office building will continue to be sandbagged in a flood event 	<ul style="list-style-type: none"> We are meeting with CYC Estates and their Arboriculture lead on 20 Feb to discuss tree mitigation and replantation costs. Leeman Rd overnight closures 18 Feb to 2 Mar to conduct Trial pits. We are expected to start on-site construction by May 2019.
B7 - Queen's Staith and Skeldergate	<p>A combination of gates and demountable barriers have been considered for this flood cell</p> <ul style="list-style-type: none"> Surface water outfalls and a sewer pipe cross the proposed demountable defence line. Without a significant amount of work being done on these assets by Yorkshire Water, there is a risk that they could provide a flow route for flood water in an event. 	<ul style="list-style-type: none"> We held a meeting with YW to discuss the results of the surveys on their assets. YW still need to confirm number of outfalls and costing for preventing fluvial flooding.
B8 - Clementhorpe and South Bank	<p><u>Clementhorpe</u> We have been engaging with residents on the new proposals for the flood cell following the results of phase 1 ground investigations. Our revised proposal is as follows:</p> <ul style="list-style-type: none"> Raising of the 4 corners of the boundary wall at Postern Close and Postern House 1.85m bi-fold flood gate on Clementhorpe New 1.85m flood wall in front of Waterfront House with structural glass panel inserts. An extra step will be added to the existing steps between Waterfront House and Dukes Wharf. Road raising and extension to existing wall at Dukes Wharf Lower Ebor Street flood wall has been raised by Roomzzz and an extension will be completed by Roomzzz on our behalf to the north 	<ul style="list-style-type: none"> Phase 2 ground investigations: 4-14 March Planning application submitted: early March Public meeting: 6 March Detailed design Construction commencement: summer 2019

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	<p>corner of the site.</p> <ul style="list-style-type: none"> • Increase the height of existing flood wall at the Caravan Park by 0.3m and embankments by raising with piles and wall (by 0.4m) and build a new embankment to the rear of the site. The road access by Vine Street will be raised by 0.4m. • Anne Street/Rowntree Park entrance: Curb raising to follow existing fence line around the top side of the park. Shallow embankment of 0.3m with a new pedestrian access ramp <p>Engagement has been focused on those properties directly affected by the scheme and its construction. A wider community event will take place at Clementhorpe Community Centre on 6 March between 3pm and 7:30pm.</p>	
	<p><u>South Bank</u> We are offering property flood resilience to 50 properties at risk of flooding. We wrote to residents in December 2018, explaining our proposals for PFR and asked if they would like to take part. As the response to our invitation was only 32%, further engagement work is required to ensure we hear from all eligible residents. At present, 12 properties have confirmed that they would like to partake in the PFR scheme. We would welcome support from CYC and local ward councillors to engage with individuals.</p> <p>We are currently working through the tender process to secure a supplier for PFR, to deliver both the South Bank and New Walk PFR schemes. Whilst the delivery programme will be confirmed by the successful supplier, our draft programme is as follows:</p> <ul style="list-style-type: none"> • June – supplier appointed • July – product selection commences (working with individual residents) • Aug onwards – products ordered and installation begins 	<ul style="list-style-type: none"> • Complete tender process and appoint supplier (June 19) • Confirm with residents take up for the scheme (June 19) • Confirm programme for delivery with new suppliers
B9 - Fulford	We have agreed with CYC that we will take a holistic approach to this flood cell. The current assumption is that CYC will now lead on delivery and funding of a potential solution.	<ul style="list-style-type: none"> • Support CYC to deliver this cell.
B10 - Clifton & Rawcliffe	<p>Planning application was submitted on the 2nd of January with a Determination Deadline of 25th April.</p> <ul style="list-style-type: none"> • We are looking to raise and extend the existing Clifton Ings Barrier 	<ul style="list-style-type: none"> • We are in discussions with BAM (our contractor) to review the cost of delivering this scheme and are looking at Value Engineering Opportunities.

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	<p>Bank and install a permanent pumping station at Blue Beck</p> <ul style="list-style-type: none"> • This will better protect 140 properties • Construction will take place in two parts over two seasons. In this time, access to the lngs will be limited and, in some cases, completely restricted. 	<ul style="list-style-type: none"> • We are expecting to go to Planning Committee on the 18th April.
B11 - Coppins Farm to Scarborough Bridge (Left Bank)	<p>We are proposing to raise the existing flood wall on Almerly Terrace and to raise and extend the embankment in the grounds of St Peter's School</p> <ul style="list-style-type: none"> • Following engagement with St Peter's School, the section of embankment through the school grounds will follow the Northeast alignment. • Having spoken to Almerly Terrace residents about the options for raising the flood wall in their gardens, we are looking to use glass panels. 	<ul style="list-style-type: none"> • We are expecting to start construction in July • Burdyke pumping station will be removed from the scheme because the benefits are understood to be low.
B12 - Scarborough Bridge to Lendal Bridge (Left Bank)	<p>We are proposing to raise the existing Earlsborough Terrace flood wall, the Marygate flood wall and gate and the embankment which runs through Museum Gardens</p> <ul style="list-style-type: none"> • The alignment of the embankment in Museum Gardens has been confirmed with York Museums Trust 	<ul style="list-style-type: none"> • We are aiming to start construction in September. • We are still considering the widening of the Scarborough Bridge gate, with possibility of funding from the Scarborough Bridge works • Detailed design drawings expected early March
B15 - King's Staith to Skeldergate Bridge	<p>Our investigations have shown that a flood defence in this location would not be cost beneficial or have a negative impact on the riverside amenity and neighbouring businesses.</p> <ul style="list-style-type: none"> • It is likely that the best solution for this cell will be PFR. 	<ul style="list-style-type: none"> • If PFR surveys are carried out, they will need to be more detailed towards the lower end of King's Staith to find out how much seepage occurs. • Work on Tower Gardens as part of Castle Gateway has now been streamlined so it is unlikely that road raising will be included in this project. • Currently no suitable solution to prevent flow path onto Tower St.
B16 - New Walk	<p>We are offering property flood resilience to 71 properties at risk of flooding. We wrote to residents in December 2018, explaining our proposals for PFR and asked if they would like to take part. As the response to our invitation was only 62%, further engagement work is required ensure we hear from all eligible residents. At present, 41 properties have confirmed that they would like to partake in the PFR scheme. We would welcome support from CYC and local ward councillors to engage with individuals.</p>	<ul style="list-style-type: none"> • Complete tender process and appoint supplier (June 19) • Confirm with residents take up for the scheme (June 19) • Confirm programme for delivery with new suppliers.

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	<p>We are currently working through the tender process to secure a supplier for PFR, to deliver both the New Walk and South Bank PFR schemes. Whilst the delivery programme will be confirmed by the successful supplier, our draft programme is as follows:</p> <ul style="list-style-type: none"> • June – supplier appointed • July – product selection commences (working with individual residents) • Aug onwards – products ordered and installation begins 	
C1 - Bishopthorpe	<p>To provide a 1 in 100 Standard of Protection in this flood cell we have proposed installing a new floodwall and flood gate. The YW sewer on Chantry Lane requires a manual penstock and manhole size increasing to facilitate this and a new manhole on Chantry Lane to facilitate pumping during a flood. We submitted proposals to the YW developer services team on Dec 5th and are still awaiting response.</p>	<ul style="list-style-type: none"> • At a meeting with Yorkshire Water on the 8th February, YW confirmed that we can install a manual penstock on their sewer and undertake manhole works. YW will make a small contribution to the cost and maintain the new penstock. Outstanding action on YW Developer Services to provide response to our proposals on 5th Dec.
C2 - Acaster Malbis	<p>The 6 properties at risk of flooding in this area will come under the new framework for Property Flood Resilience.</p>	<ul style="list-style-type: none"> • These properties will be included in the rollout of the PFR scheme.
C3 - Naburn	<p>Our investigations are in the process of being completed. The benefit cost of the initial proposed solution is low and therefore may not receive Government funding.</p>	<ul style="list-style-type: none"> • Engage with the local community to explain our findings and what we are able to offer to reduce flood risk.
Foss barrier	<p>In addition to the extensive upgrade to the pumping station we are upgrading the barrier gate and need to address raising the flood walls around St Georges Field Car Park. My Castle Gateway are proposing a new Multi Storey Car Park on this site and are submitting plans which includes a raised access road to maintain access during a flood event.</p>	<ul style="list-style-type: none"> • Install a taller barrier gate (10.85m) expected completion Autumn 2019. • Raise height of flood wall around St Georges Field car park • Work with the My Castle Gateway project to ensure the access road forms an integral part of the flood defence and coordinate any wall raising.
F4/F5 - Tang Hall Beck and Osbaldwick Beck	<p>We are investigating the feasibility of opening up part of Osbaldwick Culvert that runs through St Nicholas Fields and building a flood wall at the end of Hull Rd Park. There is still much that needs to be resolved around this work and details at this stage are unavailable.</p>	<ul style="list-style-type: none"> • We will arrange engagement with St Nicks to discuss impact on the nature reserve. • Ongoing talks with YW regarding sewer diversions.
F9 - South Beck	<p>The Options Appraisal Report for this cell is being reviewed to assess the viability of implementing a scheme for this area.</p>	<ul style="list-style-type: none"> • Details to come when available followed by engagement with the local community.

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<p>F8 - Groves to Haley's Terrace</p> <p>F10 - Haley's Terrace to Link Road</p> <p>F11 - Link Road to Ring Road</p>	<p>To reduce the risk of flooding to properties in cells F8, F10 and F11 we are proposing to build a Flood Storage Area near Strensall. We are now starting the detailed design which is expected to take around 5 months.</p>	<ul style="list-style-type: none"> • On-going modelling work to ascertain extent of flooding in order to calculate and agree compensation strategy with affected landowners.
<p>F12 - Westfield Beck</p>	<p>The Options Appraisal Report for this cell is being reviewed to assess the viability of implementing a scheme for this area.</p>	<ul style="list-style-type: none"> • Details to come when available followed by engagement with the local community.

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York FAS Three Month Engagement Plan

This is a dynamic engagement plan for the York Flood Alleviation Scheme. Please note that specified dates and time periods are subject to change as the scheme progresses. Alongside cell-specific engagement activities, we will also be engaging via a quarterly newsletter and by providing information at our Community Flood Hub which is situated on Wellington Row and open 10am to 4pm Mon, Wed and Thurs.

Hub displays

Feb	March	April	May	June
Clifton Ings Planning Submission		Clementhorpe Planning Submission		
North Street Planning Submission	Adapting to Climate Change in York	Property Flood Resilience	Flood Resilient Gardens	Habitat Creation and Improvement

Planned activities

March		
Quarterly City Wide Newsletter sent out to mailing list, available at the Hub and on Citizen Space		
Clementhorpe	6th	Clementhorpe community drop-in event
York FAS Advisory Group	20th	Quarterly York FAS Advisory Group Meeting at Foss House
April		
CYC Election period – engagement limited		
Foss Society AGM	17th	Presentation on the Foss Flood Alleviation Scheme at Strensall Village Hall
May		
CYC election period – engagement limited		

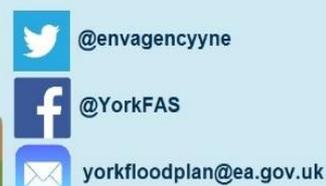
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Programme Information Table

Flood Cell	Approved Scheme Cost (£,000)	Full Business Case	Planning Permission	Construction Start	Estimated Construction Period
B4 - Scarborough to Ouse Bridge (Right Bank)	Not yet approved	Planned submission Mar 2019	Planning application was submitted on 7 th Jan. Determination Deadline 5 th March 2019	Planned May 2019	6 months
B7 - Queen's Staith and Skeldergate	Still in feasibility stage. Information will be provided when available.				
B8 - Clementhorpe South Bank	Not yet approved	Planned submission Apr 2019	Planned submission March 2019	Planned Summer 2019	18 months
	Not yet Approved	Planned submission Apr 2019	Not required	Planned installation start Aug 2019	
B9 - Fulford	CYC to lead on delivery and funding				
B10 - Clifton & Rawcliffe	Not yet approved	Planned submission Apr 2019	Planning application was submitted on 2 nd Jan. Determination Deadline 25 th Apr 2019	Planned Summer 2019	18 months
B11 - Coppins Farm to Scarborough Bridge (Left Bank)	Not yet approved	Planned submission Apr 2019		Planned Jul 2019	
B12 - Scarborough Bridge to Lendal Bridge (Left Bank)	Not yet approved	Planned submission Jun 2019		Planned Sep 2019	
B15 - King's Staith to Skeldergate Bridge	Still in feasibility stage. Information will be provided when available.				

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B16 - New Walk	Not yet approved	Planned submission Apr 2019	Not required	Planned installation start Aug 2019	
C1 - Bishopthorpe	Not yet approved	Planned submission Apr 2019	Planned submission May/June 2019		
C2 - Acaster Malbis	Still in feasibility stage. Information will be provided when available.				
C3 - Naburn	Still in feasibility stage. Information will be provided when available.				
F4 - Tang Hall Beck	Still in feasibility stage. Information will be provided when available.				
F5 - Osbaldwick Beck	Still in feasibility stage. Information will be provided when available.				
F8 - Groves to Haley's Terrace	Not yet approved	Planned submission Feb 2020	Planned submission Dec 2019	Planned April 2020	18 months
F9 - South Beck	Still in feasibility stage. Information will be provided when available.				
F10 - Haley's Terrace to Link Road	Not yet approved	Planned submission Feb 2020	Planned submission Dec 2019	Planned April 2020	18 months
F11 - Link Road to Ring Road	Not yet approved	Planned submission Feb 2020	Planned submission Dec 2019	Planned April 2020	18 months
F12 - Westfield Beck	Still in feasibility stage. Information will be provided when available.				

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