

Outcome	Activity	Actions	Outputs in Strategy period (2015-2018)	Performance Measures	Progress
Understanding risk to our communities	Identify and review flood and coastal erosion risk	<ul style="list-style-type: none"> Monitoring of a range of conditions Recording flood and coastal erosion events Modelling of systems Communicating the risk 	<ul style="list-style-type: none"> Regular technical and non-technical reports for coastal erosion and tidal flood risk Establish / extend monitoring network for groundwater based on highest risk areas to provide evidence base Develop Investigations policy and reporting procedure (in 2015) Consolidation of risk information for communication 	Time taken and quality of inspections will be the performance measures with a summary of risk provided as context	<p>Coastal monitoring continues as per the regional monitoring programme. Coastal monitoring data and reports are made available on www.coastalmonitoring.org Inspections are underway on the open watercourses the council maintains. There have been a number of CCTV inspections of piped systems. Ongoing work with Merseyside partners to roll out dip well monitoring across Merseyside but is proving difficult to get the buy in from other partners. Sefton's dipwells have been in situ since 2015.</p> <p>A number of policies have been approved by the Council covering culverting watercourse, diverting watercourses, flood investigations and enforcement.</p> <p>Undertaken detailed modelling of Formby and Maghull to understand how the system works.</p> <p>We have undertake a PFRA update and are also beginning to review our flood and coastal erosion risk management strategy which will involve reviewing all flood risk in Sefton. Our Local coastal processes report has also been published that reviews coastal erosion risk in Sefton. The main update in Risk is between Hall road and the alt Training bank. Following the storms in 2013 the erosion rates are being reviewed as a significant amount of land was eroded leading to concerns to the stability of MEPAs rising main. This has therefore triggered the need to bring forward ideas to manage the erosion in this area. The alt training bank has also breached causing concerns that this may increase the erosion between the training bank the coastguard station.</p>
	Develop plans that set out and prioritise our actions based on our understanding of risk	<p>Develop and maintain:</p> <ul style="list-style-type: none"> Local Flood Risk Strategy Preliminary Flood Risk Assessment Flood Risk Management Plan Shoreline Management Plan Surface Water Management Plan Coastal Change Study Catchment Plans (Flood Risk Management Plans) 	<ul style="list-style-type: none"> Satisfy legislative requirements for a Local Flood Risk Strategy and Flood Risk Management Plans. Develop, maintain and review other plans as necessary and take forward actions recommended in them on a prioritised basis 	Plans in place, acted on and reviewed to an agreed programme	<p>Sefton's Flood and Coastal Erosion Risk Strategy is due to be updated in 2018. We are commencing work this autumn to review our understanding and update the strategy.</p> <p>The policies and risk assessments in the Shoreline Management Plan are annually reviewed against the monitoring data. The only change recommended is that the risk assessment of the section of coastline from Hall Road the Alt Training Bank be changed to high following losses in the winter storms of 2013/2014. We are reviewing our SMP policies for the coast as the SMP has been in place for 10 years.</p> <p>There have been no further updates to the Surface Water Flood Maps following their last revision in 2013.</p> <p>The coastal change study is being incorporated into a coastal adaptation study which is currently being developed.</p> <p>The Catchment Plans have been developed by the Environment Agency with input from Sefton Council, this is consistent with our Flood and Coastal Erosion Risk Strategy.</p> <p>The PFRA has been updated.</p>
	Inform the development of plans where flood and coastal erosion risk is a factor	<ul style="list-style-type: none"> Local Plan Strategic Flood Risk Assessment Green Space Habitat Management Coastal Management 	<ul style="list-style-type: none"> Input fully to plans to maximise opportunities and minimise adverse impacts in relation to flood and coastal erosion risk management 	Timely and quality response including feedback from the customer team.	<p>We supported planning colleagues through the local plan enquiry and it has now been adopted. A number of major development sites have been identified and approved. Our role as Lead Local Flood Authority, under the flood and water management act 2010 is to ensure flood risk is appropriately managed. There have been no updates to the SFRA. We have contributed to the development of the Sefton Coast Plan. We have been merged with Coast and Countryside and parks and green spaces to form Green infrastructure. We have been looking at ways to link together and provide a more effective and efficient service with a view to developing a service plan for the new service.</p>

	Inspect and record our assets and where necessary 3rd party assets	<ul style="list-style-type: none"> Develop and maintain a database containing information about assets important to flood risk management Develop and implement a risk based inspection programme for the assets Identify and designate assets which are in third party ownership and although not their primary function are important for flood risk management 	<ul style="list-style-type: none"> A database containing information on known assets A prioritised inspection regime A programme of work to complete documentation of assets 	Time taken and quality of inspections will be the performance measures with a summary of condition provided as context	A database of critical assets has been established and is being reviewed to put into a new system. A programme of cataloguing historic data is also underway. The inspection programme is under development and an inspection methodology is being applied. The programme will be refined based on the outcomes of the initial inspections. Currently there no 3rd party assets designated as flood defences but this is constantly under review.
	Work via the planning process	<ul style="list-style-type: none"> Develop and maintain evidence relating to flood risk to inform the Local Plan, in the format of the Strategic Flood Risk Assessment (SFRA). The most recent update of the SFRA has been completed in 2013 Discharge duties required of a Lead Local Flood Authority such as a statutory consultee for assessing flood risk implications from developments, through the planning process. Develop and maintain local guidance for Flood Risk Assessments (FRA) which sets out what we will expect in such assessments and how we will consider them over and above what is set out in National Planning Guidance Advise the Local Planning Authority on planning applications in relation to flood risk 	<ul style="list-style-type: none"> Assess development applications as required. Production and application of local FRA guidance Advise on Planning applications in accordance with legislation and guidance 	<p>These activities are all responding to requests whether they are from planning, an applicant for consenting of works or arising from a request to investigate a flooding issue. As such we need to record the volume of requests (number and scale), the quality and timeliness of our response and the immediate outcome we have achieved.</p> <p>Measures will be:</p> <p>Number</p> <p>Scale</p> <p>Response time achieved</p>	<p>Duties as a Lead local Flood Authority are being undertaken. There have been 63 major applications and 424 minor applications between October 2016 and September 2017. The cost to the service in 2017/2018 of dealing with the major applications is currently £8556.87. The Local Flood Risk Assessment guidance is currently being drafted with planning and will be accessible on the web.</p>
Avoiding increase of risk to our communities	Administer powers in relation to consenting for ordinary watercourses, coast protection act and bylaws	<ul style="list-style-type: none"> Establish consenting procedures and raise awareness of need for consents Review and enact bylaws Review procedures and enact recommendations relating to the Coast Protection Act 	<ul style="list-style-type: none"> Put in place procedures for consenting works to ordinary watercourses and raise awareness of the need to seek consent for such works. Put in place procedures for consenting works controlled under the Coast Protection Act and raise awareness of the need to seek consent for such works (in 2015) Review bylaws that it would be beneficial to enact and commence the process of enactment (by 2016). 	<p>Quality of responses acceptable</p> <p>Impact</p>	<p>Our processes are being reviewed and updated.</p> <p>A draft procedure is in development for Coast Protection Act but is not a priority task</p> <p>Byelaws are still being reviewed and a recommendation report is being reviewed following the adoption of the policies.</p>
	Advising 3rd parties of their maintenance responsibilities and where necessary intervene	<ul style="list-style-type: none"> Communicate riparian duties Identify issues or receive in complaints relating to lack of maintenance Identify and enter into negotiations with riparian owners Where negotiations fail commence enforcement proceedings Where necessary undertake works ourselves 	<ul style="list-style-type: none"> Clear procedures for dealing with riparian issues (in 2015) 		<p>We have sent letters to all Riparian owners in Maghull, Thornton and Formby and have had public meetings with them to help them understand their roles and responsibilities. We have also produced more detailed guidance and advice which is available on the floodready.co.uk website.</p> <p>We record all reports of maintenance issues and prioritise a response to them or follow up accordingly, often through the Making space for water group.</p> <p>We have spoken to a number of riparian owners and are supporting them with their role. There are no current enforcement actions. Through negotiation a riparian owner in Thornton has renewed his culverted watercourse that was derelict and not functioning. In 2017/18 we have currently written to 26 residents reminding them of their duties.</p>

Reducing risk to our communities	Develop and implement a prioritised maintenance programme	<ul style="list-style-type: none"> Identify catchments and associated critical infrastructure Develop and implement an asset management plan which will include a prioritised maintenance plan based on the number of properties at risk and the vulnerability of the resident 	<ul style="list-style-type: none"> Review and re-tender works contracts (by 2016) Develop and start a programme of work to identify critical infrastructure in each drainage area Commence development of an asset management plan (in 2015) 	<p>As planned works we will develop programmes and budgets, we will review progress against these and have a project sponsor / project manager arrangement in place to monitor quality. We need to consider how to measure performance in relation to partnership working and drawing in external funds.</p> <p>Time of response and quality of response will be key indicators with £ spent providing context</p>	<p>New drainage contract let to Kings Construction on the 1st of October. We are currently providing them with a schedule of works. We are closely monitoring performance due to a number of issues at the end of last year.</p> <p>A borough wide review of critical infrastructure has been undertaken and a number of assets identified. This is being reviewed as we look into detail into each catchment area. We are currently inspecting unknown assets and further investigating historical maps to help us understand the assets and how it ties into the drainage system.</p> <p>A programme of works has been identified on the Medium Term Plan for the next 6 years, this is reviewed annually in March. This is detailed in the investment plan. We have renewed 200m of drainage assets on the Coastal Road, Alnsdale. More lengths will be renewed as and when funding becomes available. A culverted watercourse was also opened up in Formby to increase capacity and improve environmental benefits. in the area.</p> <p>Three projects are currently underway that are supported by grant. Seaforth will not be taken in 2016/17 as originally hoped due to capacity issues. 2017 we still haven't progressed and will be reviewing options for delivery.</p>
	Develop a programme of improvement works	<ul style="list-style-type: none"> Identify capital maintenance and improvement works Develop a forward plan and bid for funding to undertake the work Implement works when funds become available 	<ul style="list-style-type: none"> Development of a justified forward plan listing proposed works (in 2015) Submission of forward plan for grant aid (indicative stage only) Implementation of works granted funding 		Works are undertaken as and when necessary on a prioritised basis.
	Undertake reactive maintenance	Respond to reactive maintenance needs on a prioritised basis			
Reducing consequences to our communities	Work in partnership with our communities to increase their resilience	<ul style="list-style-type: none"> Share our understanding of flood and coastal erosion risk Discuss with communities options for increasing their resilience Provide advice and support on what to do before during and after a flood 	<ul style="list-style-type: none"> Development of a communications strategy (by the end of 2015) Development of basic communication materials Commence implementation of communication strategy 	<p>Performance measures will be developed as part of the communications plan.</p> <p>We have to have plans in place and be confident that they will work. The performance measure will be that annual training, testing and review of the plans has been undertaken to a pre-agreed programme.</p>	<p>A communications strategy has been developed for the Formby and Maghull Study and will be expanded to other areas. We also intend on producing a general communications strategy for the new Green infrastructure service we sit within to ensure we know of each others key messages and are in a position to deliver each others messages when the opportunity arises.</p> <p>Communications material is available predominately through the floodready website. Copies of the leaflet are available in council buildings. The flood ready website has been updated with more information about Riparian ownership and ways to save water. We are currently in discussions with the Environment Agency who are looking to create a bigger website called Flood Hub and the flood ready website will sit within this as the educational arm of the website. It will require updating to reflect the purely educational element of flood hub to which we have asked for funding to do this.</p> <p>There have been over 24000 sessions to the flood ready website, who spend on average 1.08 hours on the site reviewing the supporting material and case studies. 11.2% are returning and 88.8% are new visitors.</p>
	Develop and implement plans for Council actions in the event of flooding occurring	<ul style="list-style-type: none"> Emergency Plan Resilience Plan 	<ul style="list-style-type: none"> Review the emergency and resilience plans for flooding (annual) 		We are working with the Council Risk and Resilience Officer to ensure our plans align with the Merseyside Plans and are checked and tested. We have been working with a number of residents across the borough and emergency planning to administer a £5k grant to those residents who flooded internally after storms Desmond and Eva. Most properties have had property Level protection measures installed and payment has been made to the residents.

CAPITAL PROGRAMME

Understanding Risk	Regional Monitoring programme	Regional contract establishment and management. Local data collection and analysis.	Evidence base that supports the Shoreline Management Plan and delivery of its action plan.	Seeking and securing alternative funding sources to support wider delivery.	The programme employs 3 full time equivalent posts that bring additional benefits and skills into the council. The team undertake the coastal surveys for the Sefton area and have worked with colleagues across the North West to support their survey programmes. The skills and equipment used for the monitoring programme is also available for inland survey work to the ECBA team and wider Council.
Understanding Risk	The Pool and Life watercourse investigations	Stage one desktop study, Stage 2 CCTV and further investigations, Stage 3 scheme identification	Desk study completed, inspection completed. Programme of improvement works developed. Appropriate funding applications made. A number of schemes delivered.	Effectiveness realised as required as part of grant memorandum. Seeking and securing alternative funding sources to support wider delivery. Partnership working is embedded from the start to deliver this project.	Grant in aid secured from the Environment Agency to undertake investigations and studies into the two watercourses that serve Southport and Birkdale. These watercourses have largely been piped/covered over time and have had numerous connections and disconnections made to them. The investigation work is helping to identify where further work is required to maintain the system, opportunities to restore the open watercourse and reduce flood risk. The initial desktop phase of the studies is largely complete which reviewed historic maps and previous surveys. The second phase involving CCTV surveys of the piped/covered network is now complete and reports have been analysed. This will inform the third phase which will involve consultation with partners and engagement with the community to assess options.
Understanding Risk	Meresyde Groundwater Study	Initial wells across Meresyde. Monitor data. Develop programme of schemes to reduce risk of Groundwater Flooding.	Meresyde network of monitoring wells. Groundwater datasets. Programme of future schemes.	Effectiveness realised as required as part of grant memorandum. Seeking and securing alternative funding sources to support wider delivery. Partnership working is embedded from the start to deliver this project.	Limited progress made due to difficulties obtaining agreement from Meresyde partners to install wells. Sefton wells continue to record data. Sefton's diphwells have been in situ since 2015.
Reducing risk to our communities	Natural Flood Risk Management	Assessment of opportunities for natural flood risk management across Meresyde	Modelled plan of areas where NFRM might be suitable. Some onsite scheme delivery	Effectiveness realised as required as part of grant memorandum. Seeking and securing alternative funding sources to support wider delivery. Partnership working is embedded from the start to deliver this project.	30k funding has been secured from Environment Agency to undertake this project. Sefton has entered into partnership with the Healthy Rivers Trust to deliver this project. The Trust has recently carried out similar projects in Lancashire and has the computer modelling systems in place to efficiently deliver this work. We have had a workshop with Flood risk management authorities across Meresyde in March and we have now received the output modelling in GIS format. This will now inform decisions and discussion about where best to undertake NFM across Meresyde to get the biggest benefits and how we work together as a region in delivering NFM as works in one authority may only benefit those in another, so some form of agreement or way of working to facilitate this work will be ongoing with a NFM working group for the region to drive forward the delivery of schemes on the ground. This will help deliver the Sefton Council 2030 vision for resilient people and places.
Reducing risk to our communities	Formby Flood Risk Strategy	Review flood risk in Formby. Engage with community and agree priorities. Develop options for reducing flood risk in Formby in agreement with community. Support them to become more resilient.	Effective community liaison. Options report and agree preferences with community. Increased representation within the community. Community acceptance of risk, and roles and responsibilities. Scheme delivered to reduce risk to hot spots within Formby. Appropriate funding applications made.	Effectiveness realised as required as part of grant memorandum. Seeking and securing alternative funding sources to support wider delivery. Partnership working is embedded from the start to deliver this project. Outcomes align with 2030 Vision for resilient places and people.	We have worked with Formby Parish Council to establish a community flood group to try to jointly manage flood risk and improve the health and wellbeing of the community of Formby supported by grant in aid secured from the Environment Agency. A number of initial meetings with the wider community were held to share understanding of the risk in Formby and identify key priorities the community wanted pursuing. From these initial meetings the community agreed that a small group should be set up to represent the wider community views and take actions forward. The Formby Flood Group is currently working towards establishing itself as a constituted group, which will enable it to source a wider range of funding opportunities to work towards achieving the community priorities. The group have now set up a website and have worked with a local university to install a groundwater monitoring system, to provide an early warning system for residents as the group felt groundwater flooding is an issue in the area.

<p>Reducing risk to our communities</p>	<p>Maghull and Fouracres flood risk management plan</p>	<p>Review flood risk in Maghull. Engage with community and agree priorities. Develop options for reducing flood risk in Maghull in agreement with community. Support them to become more resilient.</p>	<p>Effective community liaison. Options report and agree preferences with community. Increased representation within the community and an improvement in their resilience. Scheme delivered to reduce flood risk to Fouracres. Community acceptance of risk, and roles and responsibilities. Appropriate funding applications made.</p>	<p>Efficiencies realised as required as part of grant memorandum. Seeking and securing alternative funding sources to support wider delivery. Partnership working is embedded from the start to deliver this project. Outcomes align with 2030 Vision for resilient places and people.</p>	<p>We have worked with Maghull Town Council to establish a community flood group in area supported by grant in aid secured from the Environment Agency. An advert was placed in the local newspaper inviting interested residents to help form a flood committee early in 2016. The committee has since met several times and a number of public engagement sessions have been run:</p> <ul style="list-style-type: none"> • Sefton Council held a drop in session specifically for riparian owners to raise awareness of their role and responsibility • The Committee undertook an online questionnaire to gather information from the community. This was followed by a meeting to discuss the results. • A public event discussing community resilience and how to prepare for flooding was undertaken in conjunction with United Utilities, the Environment Agency and the flood committee. <p>The committee has now disbanded due to conflicting priorities and work will continue with those residents in Fouracres that has suffered internal flooding to take forward an option or this / fails a management plan will be produced.</p>
<p>Reducing risk to our communities</p>	<p>Crosby to Formby Point coastal protection Strategy</p>	<p>Look at long term sustainable solutions for Crosby To Formby Point</p>	<p>funded delivery programme?</p>		<p>Primary focus is on the section from the Alt training bank to the Serpentine to secure this section of the coastline. Secured funding from The Environment Agency to develop the delivery programme and have begun undertaking survey and design to support the works. Discussion have been undertaken with United Utilities to secure contributions and discussion are underway with the environment agency to further develop the business case for the defence works. This programme is being coordinated with the Crosby masterplan.</p>