

# Improvement Measures

Objective	Measure (as of July 2014)	Type	Review of Previous 12 Months (July 2014 – July 2015)	Review of Previous 12 Months (July 2015 – July 2016)	Review of Reporting Period (July 2016 to Jan 2019)	Implementation Plan (from Jan 2019 to new LFRMS release date)
<b>Improve knowledge and understanding of all flood risk in Swindon</b>	The risk assessment assimilates the best data available and provides the most up-to-date understanding of flood risk in Swindon. The risk assessment will be updated annually at the start of the financial year, and the priority list of communities at risk of local flooding will be published annually.	Information	The LFRMS was adopted by Cabinet in July 2014.  An analysis of data published by the EA following the winter of 2014/15 concluded that no change was required to the communities at risk register.	EA data monitored following the winter of 2015/16 no changes will be required to the communities at risk register.	EA data monitored following the winters of 2016/19. No changes will be required to the communities at risk register.	Analyse data published by the EA following the winter of 2019/20 to determine if a change will be required to the communities at risk register.
	The draft risk assessment will be updated with data gathered through the consultation and when the Environment Agency publishes new data in December 2013.	Information				
	This draft document is being made publicly available and will be communicated directly with communities through the Strategy consultation, and the Strategy will be reviewed in line with responses received.	Community engagement and resilience	Consultation completed as planned before the LFRMS was adopted by Cabinet in July 2014. <b>Measure Completed</b>	Measure completed	Measure completed	Measure completed
	Swindon Borough Council will develop an investigations procedure and publish this in the LFRMS.	Procedures	The investigations procedure was published as Appendix F of the LFRMS. <b>Measure Completed</b>	Measure completed	Measure completed	Measure completed
<b>Ensure appropriate development that takes account of flood risk</b>	Policy EN6 has been agreed with the Environment Agency and provides the necessary protection to ensure that development takes account of flood risk.	Policy	Local Plan 2026, including policy EN6 was adopted by Cabinet in March 2015. <b>Measure Completed</b>	Measure completed	Measure completed	Measure completed
	The SuDS Approval Body (SAB) requirement will commence in April 2014. At this point in time all large development applications will need a separate approval from the SAB to ensure that development takes account of flood risk and climate change.	Policy	The requirement to establish a SAB was abolished by DEFRA/DCLG.  Lead Local Flood Authorities (LLFA's) were appointed as a Statutory Consultee for planning applications in order to manage surface water and other forms of Flood Risks.	A series of workshops and meetings have been held with planners to ensure that the LLFA are integrated into the planning process and a written process has been agreed.  The Planning team now routinely refer appropriate planning applications to the LLFA as Statutory Consultee.  The LLFA routinely manage flood risk by recommending conditions to be placed upon development through the planning process and through providing pre-application advice where requested. <b>Measure Completed</b>	Measure completed	Measure completed

# Improvement Measures

<p>Swindon Borough Council is currently developing policies and procedures to implement the SAB, but these cannot be made public until the government confirms the commencement and the development size thresholds in April 2014.</p>	<p>Procedures</p>	<p>The requirement to establish a SAB was abolished by DEFRA/DCLG.</p> <p>Lead Local Flood Authorities (LLFA's) were appointed as a Statutory Consultee for planning applications in order to manage surface water and other forms of Flood Risks.</p> <p>Sustainable policies and procedures to continue to be developed and adopted locally as required to manage flood risk through the development process.</p> <p><b>Measure Completed</b></p>	<p>Measure completed</p>	<p>Measure completed</p>	<p>Measure completed</p>
<p>Swindon Borough Council will evaluate the need for Local SuDS policy and design guidance. If local guidance is needed to supplement the national standards (not yet published), this will be developed and published when appropriate. If we consider that different areas within Swindon Borough require different local standards, we will publish local flood risk areas or critical drainage areas as part of the local guidance.</p>	<p>Guidance</p>	<p>Local Plan 2026 adopted by Cabinet in March 2015.</p> <p>Further work undertaken to define the drainage master-plan; standards and guidance for the Eastern Villages.</p>	<p>Work has continued to complete and define the drainage master-plan; standards and guidance for the Eastern Villages and progress through the phases of consultation and adoption.</p> <p>Work has continued to adapt the standards and guidance that has been prepared for the Eastern Villages into a format that may be applied to all major and minor developments across the Borough. When complete, these standards and guidance will be published as part of the overarching Transport Requirements for Developers (TfRD).</p>	<p>Work on the Eastern Villages master plan documents were completed with the publishing of the NEV SUDs Vision and the NEV Bridges Vision.</p> <p>Work continued in association with Wiltshire Council to develop a SUDs policy document similar to the NEV SUDs Vision that will support the TRfD and may be applied to all major and minor developments across the Borough.</p> <p>Review and accept EA proposed PFRA action area assessment which identifies that there are no action areas of a scale to influence EU policy.</p>	<p>Continue working in association with Wiltshire Council to develop a SUDs policy document similar to the NEV SUDs Vision that may be applied to all major and minor developments across the Borough.</p> <p>Work with the Strategic Planning team to prepare; adopt and publish a SFRA Level 1 and 2 for the Borough to consider areas suitable for future development.</p>
<p>Swindon Borough Council has powers to designate structures and features that affect flooding. We will exercise these powers where necessary to ensure that these features are protected. If structures are designated, they will be identified on the asset database and the information will be available on the Land Charges Register.</p>	<p>Procedures</p>	<p>Powers not exercised</p>	<p>Initial discussions held with IT team to investigate which IT systems may be used to store a Drainage Asset Register in a format that enables structures and features that affect flood risk to be investigated; recorded and shared.</p>	<p>Works continued with other Highway Service areas; IT and Procurement teams to procure an enhanced Information asset Management system to store the spatial drainage asset register in a format that enables structures and features that affect flood risk to be investigated; recorded and shared.</p>	<p>Continue work with other Highway Service areas; IT and Procurement teams to procure an enhanced Information asset Management system to store the spatial drainage asset register in a format that enables structures and features that affect flood risk to be investigated; recorded and shared.</p>
	<p>Information</p>				

# Improvement Measures

	Where we are notified that works that affect flood risk have been completed on a watercourse without our consent, we will take enforcement action where appropriate and proportionate to the risk.	Enforcement	No enforcement actions undertaken.	No enforcement actions undertaken.	No enforcement actions undertaken.	Undertake enforcement action as required.
<b>Improve awareness of flood prediction, warning and post-flood recovery</b>	Swindon Borough Council will take a lead role in the management and coordination of flood risk. We will act as the primary point of contact for our communities at risk or with experience of local flooding. However, fluvial flooding from main rivers and flooding from public sewers remains outside of our direct control. We will work in partnership with the Environment Agency and Thames Water to reduce confusion and present a united Strategy to manage flooding.	Policy	Convened biannual meetings of the cross agency Swindon Flood and Water Management Act advisory group.	Convened biannual meetings of the cross agency Swindon Flood and Water Management Act advisory group.	Convened biannual meetings of the cross agency Swindon Flood and Water Management Act advisory group.	Continue to convene biannual meetings of the cross agency Swindon Flood and Water Management Act advisory group.
	The Civil Protection Unit is already working on a number of activities to build community resilience and has been involved in the production of the LFRMS.	Community engagement and resilience	Attended regular meetings of the Flood Action Groups to provide communities with advice and support.  Continued to deliver the objectives of the Pathfinder Initiative by providing schools and communities with advice and support to increase local resilience.	Attended regular meetings of the Flood Action Groups to provide communities with advice and support.	Attended regular meetings of the Flood Action Groups to provide communities with advice and support.	Continue to attend regular meetings of the Flood Action Groups to provide communities with advice and support.
<b>Encourage communities to manage their own localised flood risk</b>	We will work with our partners to engage with all Localities and to ensure that communities are equipped with the knowledge and expertise to protect themselves.	Guidance	Attended regular meetings of the Flood Action Groups to provide communities with advice and support.	Attended regular meetings of the Flood Action Groups to provide communities with advice and support.	Attended regular meetings of the Flood Action Groups to provide communities with advice and support.	Continue to attend regular meetings of the Flood Action Groups to provide communities with advice and support.
	The Civil Protection Unit is already working on a number of activities to build community resilience and has been involved in the production of the LFRMS.	Community engagement and resilience	Continued to deliver the objectives of the Pathfinder Initiative by providing schools and communities with advice and support to increase local awareness and resilience.			
<b>Develop a prioritised action plan to manage flood risk by maintaining, and improving, where appropriate, local flood risk management infrastructure and systems.</b>	We will develop a prioritised action plan based on the communities at risk of local flooding and the locality risk assessment. We will undertake three investigations of the highest risk communities every financial year. These investigations will identify if there are cost beneficial, locally specific actions to reduce or manage risk and improve network resilience to provide benefits beyond just flood risk. The output of the investigation will be a project mandate for consideration in the Council's capital spending review. Detailed design and implementation of the actions will depend on funding being secured from the Council, the Environment Agency and other partnership organisations.	Action plan	The LFRMS was adopted by Cabinet in July 2014.  Investigations were undertaken in high risk areas to identify cost beneficial, locally specific actions to reduce or manage risk and that provide other benefits beyond just flood risk. The findings of each investigation are identified in the progress actions spread-sheet.	Investigations were undertaken in high risk areas to identify cost beneficial, locally specific actions to reduce or manage risk and that provide other benefits beyond just flood risk. The findings of each investigation are identified in the progress actions spread-sheet.	Investigations were undertaken in high risk areas to identify cost beneficial, locally specific actions to reduce or manage risk and that provide other benefits beyond just flood risk. The findings of each investigation are identified in the progress actions spread-sheet.  Work to review the Strategy scheduled for 2019 pending EA guidance which is due to be published.	Continue to undertake investigations in high risk areas as funds permit to identify cost beneficial, locally specific actions to reduce or manage risk and that provide other benefits beyond just flood risk. Summarise findings of each investigation in progress actions spread-sheet; secure funding and commission improvement works where possible.  Use EA guidance to review and where necessary revise the Strategy to manage the impact of flooding and improve resilience.

# Improvement Measures

<p>We will ensure that our highways maintenance schedules use flood risk as a factor in planning when and where highways maintenance takes place.</p>	<p>Maintenance</p>	<p>Continued to work with the Councils Operational Services team to ensure that localised flood risk is considered and reduced by means of routine maintenance activities where simple solutions can be identified.</p>	<p>Joint working approach continued between the Asset and Operational Service teams and to ensure that localised flood risk is considered and reduced by means of routine maintenance activities where simple solutions can be identified.</p> <p>The first phase of a gully cleansing and data collection contract was tendered and awarded 2015/16 to start establishing a register of drainage assets.</p> <p>The requirement to assess flood risk when prioritising works included within the overarching Highway Asset Management Policy and Strategy, adopted by cabinet in November 2015.</p>	<p>Joint working approach continued between the Asset and Operational Service teams and to ensure that localised flood risk is considered and reduced by means of routine maintenance activities where simple solutions can be identified.</p> <p>Gully cleansing and data collection contracts completed in 2015/16 and 2017/18 to establish a register of drainage gully assets.</p> <p>Risk based approach introduced for gully cleansing in 2018 which assigns a cleansing frequency to gullies of between 6 months and 5 years based upon their strategic importance and risk factors such as proximity to surface water and fluvial flow routes.</p> <p>The requirement to assess flood risk when prioritising works included within the overarching Highway Asset Management Policy and Strategy, adopted by cabinet in November 2015 and updated in 2018.</p>	<p>Continue to work with the Councils Operational Services team to ensure that localised flood risk is considered and reduced by means of routine maintenance activities where simple solutions can be identified.</p> <p>Maintain the risk based maintenance of gullies and ensure the existing register of drainage asset data continues to be updated and improved through use of the mobile data devices.</p> <p>Ensure that flood risk is managed by prioritising routine maintenance activities in accordance with the overarching Highway Asset Management Policy and Strategy.</p>
<p>A register of drainage and flood-related assets is being developed. We have an ongoing programme to improve the data in this register and are currently undertaking a pilot study to understand the costs and multiple benefits of extending or continuing this programme.</p>	<p>Information Maintenance</p>	<p>DACS surveys undertaken as recorded in the community area action plan to improve understanding of costs and benefits.</p>	<p>Initial discussions held with IT team to investigate which IT systems may be used to store a Drainage Asset Register in a format that enables structures and features that affect flood risk to be investigated; recorded and shared.</p>	<p>Mobile data software and devices procured so that internally funded gully operational teams can keep the inventory and maintenance activity schedule established by the external contractors up to date and in a format that can be exported to the Drainage Asset Register when the IT system is available.</p> <p>Works commenced to collate and digitise SBC's existing drainage data into a GIS format that may be imported into the Drainage Asset Register when the IT system is available.</p> <p>Gully data is the first layer which is planned to be available to view on the authority's web-site from April 2019.</p>	<p>Continue works to digitise SBC's existing drainage data into a GIS format that may be shared with other stakeholders in line with SBC policies.</p> <p>Make gully data available to view on the authority's web-site from April 2019.</p> <p>Obtain updates of external asset data as required from partners such as Thames Water and the Environment Agency to include into the holistic GIS database.</p> <p>Continue work with other Highway Service areas; IT and Procurement teams to procure an enhanced Information asset Management system to store the spatial drainage asset register in a format that may be accessed by stakeholders.</p>

# Improvement Measures

					<p>External asset data obtained from partners such as Thames Water and the Environment Agency include as layers in the holistic GIS database ready for exporting to the Drainage Asset Register when the IT system is available.</p> <p>Standardised specification developed and shared with Projects teams so that drainage data collected as a result of investigations into highway improvement schemes is provided in a format that can be imported into the IAMS system when available.</p>	<p>Continue working with other service areas to ensure that drainage data collected as a result of investigations into highway improvement schemes is provided in a format that can be imported into the IAMS system when available.</p>
<p><b>Ensure that actions and measures proposed to manage flood risk deliver multiple benefits, including environmental, social and economic</b></p>	<p>Any structural flood management schemes will need to undertake a Water Framework Directive Risk assessment to ensure that there are no negative environmental impacts. This will comply with the WFD risk assessment requirements as set out in the Environment Agency's advice on consenting works in ordinary watercourses.</p>	<p>Policy</p>	<p>The LFRMS was adopted by Cabinet in July 2014, formalising the consenting process.</p> <p>Officers advised applicants on the requirement to submit a WFD risk assessment as part on the consenting process.</p>	<p>Ensured advice went to applicants on the requirement to submit a WFD risk assessment as part on the consenting process.</p> <p>Continued to comply with the new duties of Lead Local Flood Authority by considering and managing surface water and other forms of Flood Risks as a statutory consultee on planning applications.</p>	<p>Ensured advice went to applicants on the requirement to submit a WFD risk assessment as part on the consenting process.</p> <p>Continued to comply with the duties of Lead Local Flood Authority by considering and managing surface water and other forms of Flood Risks as a statutory consultee on planning applications.</p>	<p>Continue to advise applicants on the requirement to submit a WFD risk assessment as part on the consenting process.</p> <p>Continue to ensure compliance with the duties of Lead Local Flood Authority by considering and managing surface water and other forms of Flood Risks as a statutory consultee on planning applications.</p>
	<p>Swindon Borough Council will evaluate the need for local SuDS policy and design guidance to ensure that drainage and flood risk management activities associated with new developments achieve multiple benefits. If local guidance is needed to supplement the national standards (not yet published), this will be developed and published by April 2014.</p>	<p>Policy Guidance</p>	<p>Local Plan 2026, including policy EN6 was adopted by Cabinet in March 2015.</p> <p>Further work undertaken to define the drainage master-plan; standards and guidance for the Eastern Villages.</p>	<p>Work has continued to complete and define the drainage master-plan; standards and guidance for the Eastern Villages and progress through the phases of consultation and adoption.</p> <p>Work has continued to adapt the standards and guidance that has been prepared for the Eastern Villages into a format that may be applied to all major and minor developments across the Borough. When complete, these standards and guidance will be published and referenced as part of the over-arching Transport Requirements for Developers (TRfD).</p>	<p>Work on the Eastern Villages master plan documents were completed with the publishing of the NEV SUDs Vision and the NEV Bridges Vision.</p> <p>Work continued in association with Wiltshire Council to develop a SUDs policy document similar to the NEV SUDs Vision that will support the TRfD and may be applied to all major and minor developments across the Borough.</p>	<p>Work continued in association with Wiltshire Council to develop a SUDs policy document similar to the NEV SUDs Vision that will support the TRfD and may be applied to all major and minor developments across the Borough.</p>

## Improvement Measures

<p>Where the risk assessment has identified the need for further actions or investigations to manage or reduce risk in communities at risk of local flooding, a multiple benefits assessment will be undertaken of the options put forward for further study.</p>	<p>Action plan</p>	<p>Multiple benefits assessments carried out following investigations at Covingham &amp; Nythe and Wanborough as part of FDGiA process.</p>	<p>No multiple benefits assessments carried out during this reporting period.</p>	<p>Multiple benefits assessments carried out to prepare a list of pipeline projects for the next 6 year block of FDGiA funding available from 2021.</p>	<p>Refine multiple benefits assessments as more data becomes available for pipeline projects included on the next 6 year programme of FDGiA funding available from 2021.</p>
<p>A register of drainage and flood-related assets will be created. We have an ongoing programme to improve the data in this register and are currently undertaking a pilot study to understand the costs and multiple benefits of extending or continuing this programme.</p>	<p>Information Maintenance</p>	<p>Data collected through DACS surveys for future inclusion in Drainage Asset Register.</p>	<p>Initial discussions held with IT team to investigate which IT systems may be used to store a Drainage Asset Register in a format that enables structures and features that affect flood risk to be investigated; recorded and shared.</p> <p>DACS and CCTV surveys were completed in risk areas as recorded in the LFRMS Actions spreadsheet. The data collected may be included on the risk register for drainage assets.</p> <p>The first phase of a gully cleansing and data collection contract was tendered and awarded 2015/16 to start establishing a register of drainage assets.</p>	<p>Works continued with other Highway Service areas; IT and Procurement teams to procure an enhanced Information asset Management system to store the spatial drainage asset register in a format that enables structures and features that affect flood risk to be investigated; recorded and shared.</p> <p>Gully cleansing and data collection contracts completed in 2015/16 and 2017/18 to establish a register of drainage gully assets.</p> <p>Mobile data software and devices procured so that internally funded gully operational teams can keep the inventory and maintenance activity schedule established by the external contractors up to date and in a format that can be exported to the Drainage Asset Register when the IT system is available.</p> <p>Works commenced to collate and digitise SBC's existing drainage data into a GIS format that may be imported into the Drainage Asset Register when the IT system is available.</p> <p>External asset data obtained from partners such as Thames Water and the Environment Agency include as layers in the holistic GIS database ready for exporting to the Drainage Asset Register when the IT system is available.</p> <p>Standardised specification developed and shared with Projects teams so that drainage data collected as a result of investigations into highway improvement schemes is</p>	<p>Continue work with other Highway Service areas; IT and Procurement teams to procure an enhanced Information asset Management system to store the spatial drainage asset register in a format that enables structures and features that affect flood risk to be investigated; recorded and shared.</p> <p>Continue works to digitise SBC's existing drainage data into a GIS format that may be shared with other stakeholders in line with SBC policies.</p> <p>Make gully data available to view on the authority's web-site from April 2019.</p> <p>Obtain updates of external asset data as required from partners such as Thames Water and the Environment Agency to include into the holistic GIS database.</p> <p>Continue work with other Highway Service areas; IT and Procurement teams to procure an enhanced Information asset Management system to store the spatial drainage asset register in a format that may be accessed by stakeholders.</p> <p>Continue working with other service areas to ensure that drainage data collected as a result of investigations into highway improvement schemes is provided in a format that can be imported into the IAMS system when available.</p>

# Improvement Measures

					provided in a format that can be imported into the IAMS system when available.	
<b>Ensure the LFRMS is integrated with, and supports, Swindon's wider objectives and aspirations</b>	Local plan, water cycle study and LFRMS are working closely together with sustainability and Swindon Borough's wider objectives at the heart of the local plan.	Policy	The LFRMS was adopted by Cabinet in July 2014 to embed wider Council objectives into flood risk assessments. <b>Measure Completed</b>	Measure completed	Measure completed	Measure completed
	Community engagement is being undertaken through the Localities, who are Swindon's representative group for ensuring council activities support Swindon residents' wider objectives and aspirations.	Policy	Attended regular meetings of the Flood Action Groups to provide communities with advice and support.  Continued to deliver the objectives of the Pathfinder Initiative by providing schools and communities with advice and support to increase local resilience.	Attended regular meetings of the Flood Action Groups to provide communities with advice and support.	Attended regular meetings of the Flood Action Groups to provide communities with advice and support.	Continue to attend regular meetings of the Flood Action Groups to provide communities with advice and support.
<b>Work in partnership with other Risk Management Authorities to manage flooding in Swindon</b>	Throughout the development of the Strategy we have worked closely with our fellow flood Risk Management Authorities to ensure that the selected strategy, policy can be realistically delivered, taking into account the opportunities for funding likely to be available.	Partnership approach	The LFRMS was adopted by Cabinet in July 2014 to embed partnership working into flood risk assessments. <b>Measure Completed</b>	Measure completed	Measure completed	Measure completed
	We will continue to facilitate the Strategic Flood and Water Management Advisory Group, working in partnership with the other RMAs and our stakeholders, including local communities, to deliver the aims and objectives of this Strategy. This will include the use of partnership funding where appropriate in order to enable schemes to go ahead.	Partnership approach	Convened biannual meetings of the cross agency Swindon Flood and Water Management Act advisory group.	Convened biannual meetings of the cross agency Swindon Flood and Water Management Act advisory group.  Continued working with Thames Water and other Risk Authorities to collate and share drainage asset data.	Convened biannual meetings of the cross agency Swindon Flood and Water Management Act advisory group.  Secured Thames asset data in a digital format to include is GIS and Asset and Flood Risk Registers.	Continue to convene biannual meetings of the cross agency Swindon Flood and Water Management Act advisory group.  Continue working with Thames Water and other Risk Authorities to collate and share drainage asset data.