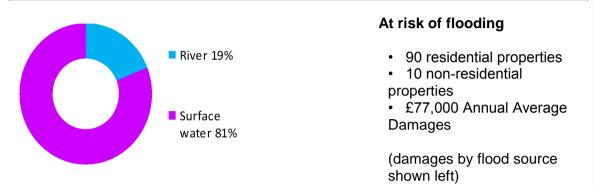
# Westhill (Potentially Vulnerable Area 06/17)

Local Plan District	Local authority	Main catchment
North East	Aberdeenshire Council, Aberdeen City Council	River Dee (Grampian)

### Summary of flooding impacts



### Summary of objectives to manage flooding

Objectives have been set by SEPA and agreed with flood risk management authorities. These are the aims for managing local flood risk. The objectives have been grouped in three main ways: by reducing risk, avoiding increasing risk or accepting risk by maintaining current levels of management.

Many organisations, such as Scottish Water and energy companies, actively maintain and manage their own assets including their risk from flooding. Where known, these actions are described here. Scottish Natural Heritage and Historic Environment Scotland work with site owners to manage flooding where appropriate at designated environmental and/or cultural heritage sites. These actions are not detailed further in the Flood Risk Management Strategies.

### Summary of actions to manage flooding

### The actions below have been selected to manage flood risk.

Flood protection scheme/works	Natural flood management works	New flood warning	Community flood action groups	Property level protection scheme	Site protection plans
Flood protection study	Natural flood management study	Maintain flood warning	Awareness raising	Surface water plan/study	Emergency plans/response
Maintain flood protection scheme	Strategic mapping and modelling	Flood forecasting	Self help	Maintenance	Planning policies

Actions

## Westhill (Potentially Vulnerable Area 06/17)

Local Plan District	Local a	uthority	Main catchment
North East	Aberdeenshire Council, Aberdeen City Council		River Dee (Grampian)
Background			
This Potentially Vulnerable based around Westhill. It is approximately 20km <sup>2</sup> . The and the B979 pass through	A944, B119, the area.	which is a trik There are ap and 10 non-ro of flooding. The Annual A approximately caused by su	tercourse is the Ord Burn, butary of the River Dee. proximately 90 residential esidential properties at risk Average Damages are y £77,000 with the majority inface water flooding. • River 19% • Surface water 81%

## Summary of flooding impacts

Surface water flood risk affects properties in the centre of Westhill, primarily to the north of the A944 with further areas of surface water flood risk scattered around the area.

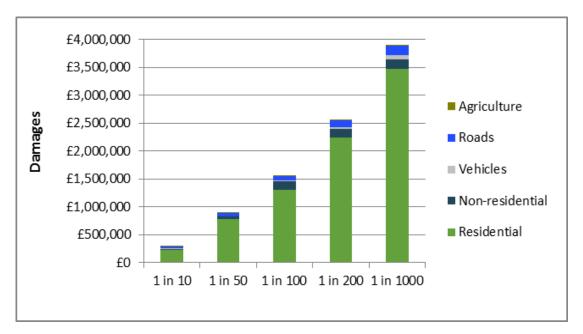
The risk of flooding to people and property, as well as to community facilities, utilities, the transport network, designated sites and agricultural land is summarised in Table 1. Roads potentially affected by flooding include the A944, B9119 and minor roads.

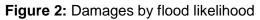
The damages associated with floods of different likelihood are shown in Figure 2. For this Potentially Vulnerable Area the highest damages are to residential properties.

The location of the impacts of flooding is shown in Figure 3.

	1 in 10 High likelihood	1 in 200 Medium likelihood	1 in 1000 Low likelihood
Residential properties (total 2,900)	<10	90	120
Non-residential properties (total 330)	<10	10	20
People	20	190	260
Community facilities	0	0	0
Utilities assets	<10	<10	10
Transport links (excluding minor roads)	Roads at 40 locations	Roads at 70 locations	Roads at 70 locations
Environmental designated areas (km²)	0	0	0
Designated cultural heritage sites	0	0	0
Agricultural land (km <sup>2</sup> )	0.4	0.5	0.6

Table 1: Summary of flooding impacts<sup>1</sup>





## History of flooding

Surface water runoff has caused flooding in parts of Westhill in the past. Flooding has also been reported at Brodiach Road near Cairdhillock and at Rotten of Gairn due to blocked gully outlets. Locally, issues with ground water flooding have also been reported.

<sup>&</sup>lt;sup>1</sup> Some receptors are counted more than once if flooded from multiple sources

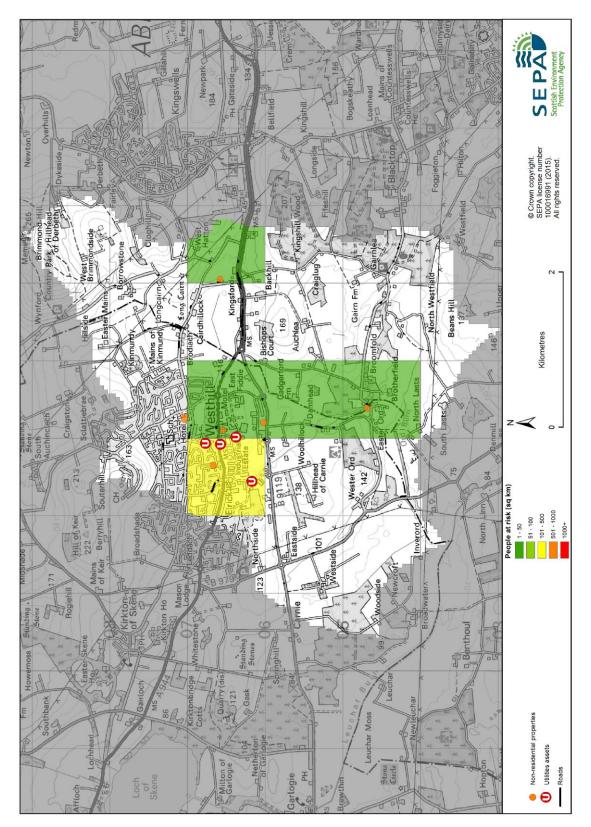


Figure 3: Impacts of flooding

## **Objectives to manage flooding in Potentially Vulnerable Area 06/17**

Objectives provide a common goal and shared ambition for managing floods. These objectives have been set by SEPA and agreed with flood risk management authorities following consultation. They were identified through an assessment of the underlying evidence of the causes and impacts of flooding. Target areas have been set to focus actions; they do not necessarily correspond to areas at risk in SEPA's flood map. The objectives below have been set for Westhill Potentially Vulnerable Area.

Target area	Objective	ID	Indicators within PVA
Westhill	Reduce risk from surface water flooding in Westhill	601701	* See note below
Applies across North East Local Plan District	Avoid an overall increase in flood risk	600001	<ul> <li>90 residential properties</li> <li>£77,000 Annual Average Damages</li> </ul>
Applies across North East Local Plan District	Reduce overall flood risk	600002	<ul> <li>90 residential properties</li> <li>£77,000 Annual Average Damages</li> </ul>
Applies across North East Local Plan District	Organisations such as Scottish Water, energy companies and Historic Environment Scotland actively maintain and manage their own assets, including the risk of flooding. These actions are not detailed further in the Flood Risk Management Strategies.		

\* This objective will be monitored using surface water flood risk across the Potentially Vulnerable Area. For 06/17 there are 80 residential properties at risk and Annual Average Damages of £63,000.

## Actions to manage flooding in Potentially Vulnerable Area 06/17

Actions describe where and how flood risk will be managed. These actions have been set by SEPA and agreed with flood risk management authorities following consultation. Selection of actions to deliver the agreed objectives was based on a detailed assessment and comparison of economic, social and environmental criteria. The actions shaded and then described below have been selected as the most appropriate for Westhill Potentially Vulnerable Area.

Selected acti	ons			-	-
Flood protection scheme/works	Natural flood management works	New flood warning	Community flood action groups	Property level protection scheme	Site protection plans
Flood protection study	Natural flood management study	Maintain flood warning	Awareness raising	Surface water plan/study	Emergency plans/response
Maintain flood protection scheme	Strategic mapping and modelling	Flood forecasting	Self help	Maintenance	Planning policies

Action (ID):	SURFACE WATER PLAN/STUDY (6017010018)				
Objective (ID):	Reduce risk from surface water flooding in Westhill (601701)				
Delivery lead:	Aberdeenshire Council				
Status:	Ongoing	Indicative delivery:	2016-2021		
Description:	The area must be covered by a surface water management plan or plans that set objectives for the management of surface water flood risk and identify the most sustainable actions to achieve the objectives. An integrated catchment study has been carried out to support the surface water management plan process and improve knowledge and understanding of surface water flood risk and interactions with other sources of flooding e.g. with the sewer network and watercourses.				
Action (ID):					
Objective (ID):	STRATEGIC MAPPING AND MODELLING (6000020019) Reduce overall flood risk (600002)				
Delivery lead:	Scottish Water				
Status:	Not started	Indicative delivery:	2016-2021		
Description:	Scottish Water will review the assessment of flood risk within the				

**Description:** Scottish Water will review the assessment of flood risk within the highest risk sewer catchments to improve knowledge and understanding of surface water flood risk.

Action (ID):	FLOOD FORECASTING	(6000020009)		
Objective (ID):	Reduce overall flood risk (600002)			
Delivery lead:	SEPA			
Status:	Existing         Indicative delivery:         Ongoing			
Description:	The Scottish Flood Forecasting Service is a joint initiative between SEPA and the Met Office that produces daily, national flood guidance statements which are issued to Category 1 and 2 Responders. The service also provides information which allows SEPA to issue flood warnings, giving people a better chance of reducing the impact of flooding on their home or business. For more information please visit SEPA's website. The Potentially Vulnerable Area is within the 'Aberdeenshire and Aberdeen City' flood alert area.			
Action (ID):	SELF HELP (600002001	1)		

Objective (ID):	Reduce overall flood risk (600002)		
Delivery lead:	_		
Status:	Existing	Indicative delivery:	Ongoing
Description:	Everyone is responsible f from flooding. Property ar to reduce damage and dis should flooding happen. T flood kit, installing propert and Resilient Communitie and businesses are insur Aberdeenshire Council pro products for individual pro types of flooding, at cost Aberdeenshire. Aberdeen City Council pro guards on individual prop	nd business owners sruption to their hon This includes prepar ty level protection, s es initiatives, and en ed against flood dar ovide a small range operty protection, wh price with free delive	can take simple steps nes and businesses ing a flood plan and igning up to Floodline suring that properties mage. of flood protection hich are available for all ery across

Action (ID):	AWARENESS RAISING	(6000020013)		
Objective (ID):	Reduce overall flood risk (600002)			
Delivery lead:	Responsible authorities			
Status:	Existing	Indicative delivery:	Ongoing	
Description:	SEPA and the responsibl awareness of flood risk. I actions that prepare indiv can reduce the overall im From 2016 SEPA will eng participation in national in Neighbourhood Watch So local authorities and com Local authorities will be u activities. Further details	mproved awareness iduals, homes and b pact. gage with the comm itiatives, including p cotland. In addition, munity resilience gro ndertaking additiona	s of flood risk and businesses for flooding unity through local partnership working with SEPA will engage with bups where possible. al awareness raising	
Action (ID):	MAINTENANCE (60000)	20007)		

Action (ID):	<b>MAINTENANCE</b> (6000020007)				
Objective (ID):	Reduce overall flood risk (600002)				
Delivery lead:	Aberdeenshire and Aberdeen City Councils, asset / land managers				
Status:	Existing         Indicative delivery:         Ongoing				
Description:	Local authorities have a duty to assess watercourses and carry out clearance and repair works where such works would substantially reduce flood risk. They produce schedules of clearance and repair works and make these available for public inspection. Scottish Water undertake inspection and repair on the public sewer network. Asset owners and riparian landowners are responsible for the maintenance and management of their own assets including those which help to reduce flood risk.				

Action (ID):	EMERGENCY PLANS/RESPONSE (6000020014)				
Objective (ID):	Reduce overall flood risk (600002)				
Delivery lead:	Category 1 and 2 Responders				
Status:	Existing         Indicative delivery:         Ongoing				
Description:	Providing an emergency response to flooding is the responsibility of many organisations, including local authorities, the emergency services and SEPA. Effective management of an emergency response relies on emergency plans that are prepared under the Civil Contingencies Act 2004 by Category 1 and 2 Responders. The emergency response by these organisations is co-ordinated through regional and local resilience partnerships. This response may be supported by the work of voluntary organisations.				

Action (ID):	PLANNING POLICIES (6000010001)		
Objective (ID):	Avoid an overall increase in flood risk (600001)		
	Reduce overall flood risk (600002)		
Delivery lead:	Planning authority		
Status:	Existing	Indicative delivery:	Ongoing
Description:	Scottish Planning Policy and accompanying Planning Advice Notes set out Scottish Ministers' priorities for the operation of the planning system and for the development and use of land. In terms of flood risk management, the policy supports a catchment-scale approach to sustainable flood risk management and aims to build the resilience of our cities and towns, encourage sustainable land management in our rural areas, and to address the long-term vulnerability of parts of our coasts and islands. Under this approach, new development in areas with medium to high likelihood of flooding should be avoided. For further information on the application of national planning policies see Annex 2.		