# Heugh-head (Potentially Vulnerable Area 06/14)

Local authority	Main catchment
Aberdeenshire Council	River Don
octs	
A	t risk of flooding
River 92%	<ul> <li>10 residential properties</li> <li>10 non-residential properties</li> </ul>
Surface	£95,000 Annual Average Damages
	(damages by flood source shown left)
	Aberdeenshire Council

# 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

# Heugh-head (Potentially Vulnerable Area 06/14)

Local Plan District	Local authority		Main catchment
North East	Aberdeensh	ire Council	River Don
Background			
This Potentially Vulnerable includes the villages of Heu Forbestown, Bellabeg and is approximately 13km <sup>2</sup> and within the Cairngorms Nation	gh-head, Waterside. It located onal Park.	Don. There are app and 10 non-re of flooding. The Annual A approximately of these from	ter course is the River proximately 10 residential esidential properties at risk verage Damages are y £95,000 with the majority river flooding.

#### Summary of flooding impacts

River flood risk is mainly limited to the River Don around Bellabeg and Heugh-head.

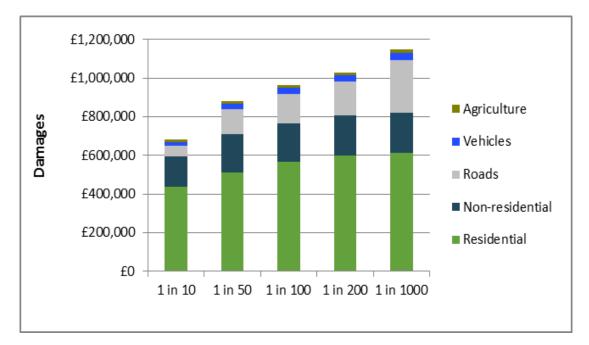
The risk of flooding to people and property, as well as to community facilities, utilities, the transport network, designated sites and agricultural land is summarised in Table 1. Roads at risk of flooding include the A944 in several locations. The fire station at Bellabeg is also at risk.

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 followed by damages to non-residential properties and roads.

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

	1 in 10	1 in 200	1 in 1000
	High likelihood	Medium likelihood	Low likelihood
Residential properties (total 80)	<10	10	10
Non-residential properties (total 30)	10	10	10
People	20	30	30
Community facilities	<10 Emergency services	<10 Emergency services	<10 Includes: emergency services and healthcare facilities
Utilities assets	<10	<10	10
Transport links (excluding minor roads)	Roads at 20 locations	Roads at 20 locations	Roads at 20 locations
Environmental designated areas (km <sup>2</sup> )	0	0	0
Designated cultural heritage sites	0	0	0
Agricultural land (km <sup>2</sup> )	0.5	0.6	0.7

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



## Figure 2: Damages by flood likelihood

# History of flooding

There was a surface water flood in August 2006 affecting Strathdon, Waterside and Bellabeg when water ponded in low points of the road. Heavy rainfall falling on steep sloping fields to the south resulted in significant amounts of flood water on the road.

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

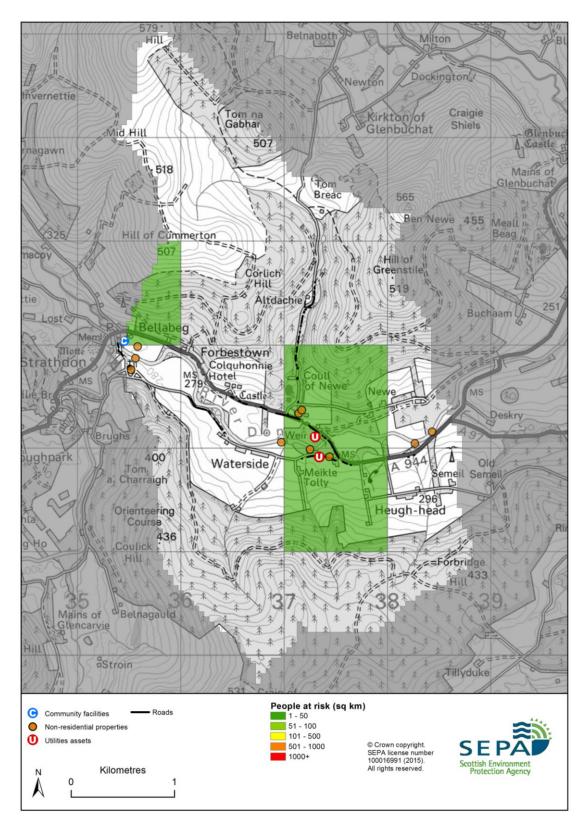
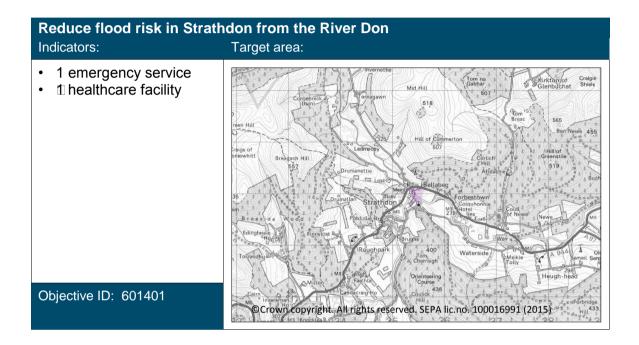


Figure 3: Impacts of flooding

## **Objectives to manage flooding in Potentially Vulnerable Area 06/14**

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 Heugh-head Potentially Vulnerable Area.



Target area	Objective	ID	Indicators within PVA
Applies across North East Local Plan District	Avoid an overall increase in flood risk	600001	<ul> <li>10 residential properties</li> <li>£95,000 Annual Average Damages</li> </ul>
Applies across North East Local Plan District	Reduce overall flood risk	600002	<ul> <li>10 residential properties</li> <li>£95,000 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.		

## Actions to manage flooding in Potentially Vulnerable Area 06/14

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 Heugh-head 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):	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 for protecting themselves and their property from flooding. Property and business owners can take simple steps to reduce damage and disruption to their homes and businesses should flooding happen. This includes preparing a flood plan and flood kit, installing property level protection, signing up to Floodline and Resilient Communities initiatives, and ensuring that properties and businesses are insured against flood damage. Aberdeenshire Council provide a small range of flood protection products for individual property protection, which are available for all types of flooding, at cost price with free delivery across Aberdeenshire.			
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 responsible authorities have a duty to raise public awareness of flood risk. Improved awareness of flood risk and actions that prepare individuals, homes and businesses for flooding can reduce the overall impact. From 2016 SEPA will engage with communities and promote Floodline using most the appropriate mix of methods for the area. These could include direct mailings, education activities, participation in local events and relevant flooding messages in the media. Local authorities will be undertaking additional awareness raising activities. Further details will be set out in the Local FRM Plan.			

Action (ID):	MAINTENANCE (600002	20007)		
Objective (ID):	Reduce overall flood risk (600002)			
Delivery lead:	Aberdeenshire Council, a	sset / land manager	rs	
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):	SITE PROTECTION PLA	<b>NS</b> (6014010015)		
Objective (ID):	Reduce flood risk in Strathdon from the River Don (601401)			
Delivery lead:	Asset managers			
Status:	Not started	Indicative delivery:	2016-2021	
Description:	Site protection plans are developed to identify whether normal operation of a facility can be maintained during a flood. This may be due to existing protection or resilience of the facility or the network. A site protection plan should be developed for the fire station and a doctor's surgery.			
Action (ID):	EMERGENCY PLANS/R	ESPONSE (600002	20014)	
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 a set out Scottish Ministers system and for the develor risk management, the pol sustainable flood risk man our cities and towns, encor rural areas, and to addres coasts and islands. Unde with medium to high likeli further information on the Annex 2.	' priorities for the op opment and use of la licy supports a catch nagement and aims ourage sustainable l ss the long-term vulues r this approach, new hood of flooding sho	eration of the planning and. In terms of flood ment-scale approach to to build the resilience of land management in our nerability of parts of our v development in areas build be avoided. For	